



Department of the Air Force

Military Construction Program

**Fiscal Year (FY) 2025
Budget Estimates**

**Justification Data Submitted to
Congress Feb 2024**

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MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2025
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MILITARY FAMILY HOUSING PROGRAM FISCAL YEAR 2025
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**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION AND MILITARY FAMILY HOUSING FISCAL YEAR 2025
PROGRAM SUMMARY**

	Authorization Request <u>(\$000s)</u>	Appropriation Request <u>(\$000s)</u>¹
Military Construction		
Baseline Major Construction	5,409,814	2,617,600
Unspecified Minor Construction (10 USC 2805)	-	129,600
Planning and Design (10 USC 2807)	-	439,926
Total Military Construction	5,409,814	3,187,126
Footnote: ¹ FY 2025 includes \$110,000K for the OOC Budget Estimate. Overseas Operations Costs (OOC) are those financed with former Overseas Contingency Operations (OCO) funding.		
Military Family Housing		
New Construction	5,705	5,705
Improvements	209,282	209,282
Planning and Design		6,557
Subtotal	214,987	221,549
Operations, Utilities and Maintenance	-	287,464
Operations		110,486
Utilities		49,955
Maintenance		127,023
Privatization	-	32,508
Leasing		6,278
Subtotal	-	326,250
Total Military Family Housing	214,987	547,799
Grand Total Air Force	5,624,801	3,734,925

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2025
INDEX - INSIDE THE US
(DOLLARS IN THOUSANDS)**

STATE	INSTALLATION	PROJECT	AUTHORIZATION	APPROPRIATION
			REQUEST	REQUEST
ALASKA	JB Elmendorf-Richardson	Joint Integrated Test and Training Center, Inc	250,000	126,000
		JB Elmendorf-Richardson TOTAL:	250,000	126,000
		ALASKA TOTAL:	250,000	126,000
CALIFORNIA	Vandenberg	GBSD Re-Entry Vehicle Facility	110,000	110,000
		Sentinel AETC Formal Training Unit	167,000	167,000
		Vandenberg TOTAL:	277,000	277,000
		CALIFORNIA TOTAL:	277,000	277,000
FLORIDA	Eglin	LRSO Hardware Software Development Test Facility	-	8,400
		Eglin TOTAL:	-	8,400
		FLORIDA TOTAL:	-	8,400
GEORGIA	Robins	Battle Management Combined Ops Complex, Inc	-	64,000
		Robins TOTAL:	-	64,000
		GEORGIA TOTAL:	-	64,000
IDAHO	Mt Home	Child Development Center	40,000	40,000
		Mt Home TOTAL:	40,000	40,000
		IDAHO TOTAL:	40,000	40,000
MASSACHUSETTS	Hanscom	MIT-LL/Engineering and Prototype Facility, Inc	315,000	76,000
		Hanscom TOTAL:	315,000	76,000
		MASSACHUSETTS TOTAL:	315,000	76,000
MONTANA	Malmstrom	GBSD Commercial Entrance Control Facility	20,000	20,000
		Weapons Storage & Maintenance Facility Inc	-	238,000
		Malmstrom TOTAL:	20,000	258,000
		MONTANA TOTAL:	20,000	258,000
OREGON	Geographically Separated	Homeland Defense Over-The-Horizon Radar, Inc	1,093,000	198,000
		Geographically Separated TOTAL:	1,093,000	198,000
		OREGON TOTAL:	1,093,000	198,000
SOUTH DAKOTA	Ellsworth	B-21 ADAL Squadron Operations	44,000	44,000
		B-21 E. Alert Apron Env. Protection Shelters	79,000	79,000
		B-21 N. Env. Protection Shelters (60 Row)	54,000	54,000
		B-21 Weapons Generation Facility Inc	-	105,000
		Ellsworth TOTAL:	177,000	282,000
SOUTH DAKOTA TOTAL:	177,000	282,000		
TEXAS	Dyess	B-21 LRS Fuels Administrative Laboratory	12,800	12,800
		B-21 Refueler Truck Yard	18,500	18,500
		Dyess TOTAL:	31,300	31,300
	JBSA-Sam Houston	METC - Barracks/Ships/Dorms #1, Inc	469,000	77,000
		JBSA-Sam Houston TOTAL:	469,000	77,000
	Laughlin	T-7A Ground Based Training System Facility	38,000	38,000
		T-7A Unit Maintenance Training Facility	18,000	18,000
Laughlin TOTAL:		56,000	56,000	
TEXAS TOTAL:	556,300	164,300		
UTAH	Hill	T-7A Depot Maintenance Complex, Inc	258,000	50,000
		Hill TOTAL:	258,000	50,000
		UTAH TOTAL:	258,000	50,000
VIRGINIA	JB Langley-Eustis	Dormitory	81,000	81,000
		JB Langley-Eustis TOTAL:	81,000	81,000
		VIRGINIA TOTAL:	81,000	81,000
WYOMING	F E Warren	GBSD Consolidated Maintenance Facility	194,000	194,000
		GBSD Land Acquisition Phase 2	139,000	139,000
		GBSD Utility Corridor, Inc	1,248,000	70,000
		F E Warren TOTAL:	1,581,000	403,000
		WYOMING TOTAL:	1,581,000	403,000
INSIDE THE US TOTAL:			4,648,300	2,027,700

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2025
INDEX - OUTSIDE THE US
(DOLLARS IN THOUSANDS)**

STATE	INSTALLATION	PROJECT	AUTHORIZATION APPROPRIATION		
			REQUEST	REQUEST	
DENMARK	Karup	EDI: DABS-FEV Storage	110,000	110,000	
			Karup TOTAL:	110,000	110,000
			DENMARK TOTAL:	110,000	110,000
FEDERATED STATES OF MICRONESIA	Yap Airfield	PDI: Runway Extension, Inc	400,314	96,000	
			Yap Airfield TOTAL:	400,314	96,000
			FEDERATED STATES OF MICRONESIA TOTAL:	400,314	96,000
JAPAN	Kadena	PDI: Theater A/C Corrosion Control Center, Inc	-	132,700	
			Kadena TOTAL:	-	132,700
			JAPAN TOTAL:		132,700
SPAIN	NAS Rota	NATO Strategic Airlift Hangar	15,200	15,200	
			NAS Rota TOTAL:	15,200	15,200
			SPAIN TOTAL:	15,200	15,200
UNITED KINGDOM	RAF Lakenheath	SURETY: Barrier Systems	185,000	185,000	
			RAF Lakenheath TOTAL:	185,000	185,000
			RAF Mildenhall	SOW Campus Infrastructure	51,000
RAF Mildenhall TOTAL:	51,000	51,000			
UNITED KINGDOM TOTAL:	236,000	236,000			
WORLDWIDE UNSPECIFIED		Planning And Design	-	439,926	
		Unspecified Minor Military Construction	-	129,600	
		WORLDWIDE UNSPECIFIED TOTAL:	-	569,526	
		OUTSIDE THE US TOTAL:	761,514	1,159,426	
		INSIDE THE US TOTAL:	4,648,300	2,027,700	
		FY 2025 TOTAL:	5,409,814	3,187,126	

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2025
NEW AND CURRENT MISSION**

DEFINITIONS OF NEW AND CURRENT MISSION

NEW MISSION PROJECTS – New mission projects all support new and additional programs or initiatives that do not revitalize the existing physical plant. These projects support the deployment and bed-down of new weapons systems: new or additional aircraft, missile and space projects; new equipment, e.g. radar, communication, computer satellite tracking and electronic security.

CURRENT MISSION PROJECTS – These projects revitalize the existing facility plant by replacing or upgrading existing facilities and alleviating long-standing deficiencies not generated by new missions or equipment. Included are projects to improve the quality of life, upgrade the workplace, enhance productivity and achieve compliance with environmental, health and safety standards.

<u>FY25</u>	Appropriation Request <u>(\$000)</u>
NEW MISSION	1,389,700
CURRENT MISSION	1,227,900
PLANNING & DESIGN	439,926
MINOR CONSTRUCTION	129,600
TOTAL:	3,187,126

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2025
INDEX - CURRENT/NEW MISSION BREAKOUT
(DOLLARS IN THOUSANDS)**

STATE/COUNTRY	INSTALLATION	PROJECT	APPROPRIATION REQUEST	TYPE
ALASKA	JB Elmendorf-Richardson	Joint Integrated Test and Training Ctr, Inc	126,000	CM
DENMARK	Karup	EDI: DABS-FEV Storage	110,000	CM
FEDERATED STATES OF MICRONESIA	Yap Airfield	PDI: Runway Extension, Inc	96,000	CM
IDAHO	Mt Home	Child Development Center	40,000	CM
JAPAN	Kadena	PDI: Theater A/C Corrosion Control Ctr, Inc	132,700	CM
MASSACHUSETTS	Hanscom	MIT-LL/Engineering and Prototype Fac, Inc	76,000	CM
MONTANA	Malmstrom	Weapons Storage & Maintenance Fac Inc	238,000	CM
SPAIN	NAS Rota	NATO Strategic Airlift Hangar	15,200	CM
TEXAS	JBSA-Sam Houston	METC - Barracks/Ships/Dorms #1, Inc	77,000	CM
UNITED KINGDOM	RAF Lakenheath	Surety: Barrier Systems	185,000	CM
UNITED KINGDOM	RAF Mildenhall	SOW Campus Infrastructure	51,000	CM
VIRGINIA	JB Langley-Eustis	Dormitory	81,000	CM
Current Mission TOTAL			1,227,900	
STATE/COUNTRY	INSTALLATION	PROJECT	APPROPRIATION REQUEST	TYPE
CALIFORNIA	Vandenberg	GBSD Re-Entry Vehicle Facility	110,000	NM
CALIFORNIA	Vandenberg	Sentinel AETC Formal Training Unit	167,000	NM
FLORIDA	Eglin	LRSO Hardware Software Development Test Fac	8,400	NM
GEORGIA	Robins	Battle Management Combined Ops Complex, Inc	64,000	NM
MONTANA	Malmstrom	GBSD Commercial Entrance Control Facility	20,000	NM
OREGON	Geographically Separated	Homeland Defense Over-The-Horizon Radar, Inc	198,000	NM
SOUTH DAKOTA	Ellsworth	B-21 ADAL Squadron Operations	44,000	NM
SOUTH DAKOTA	Ellsworth	B-21 E. Alert Apron Env. Protection Shelters	79,000	NM
SOUTH DAKOTA	Ellsworth	B-21 N. Env. Protection Shelters (60 Row)	54,000	NM
SOUTH DAKOTA	Ellsworth	B-21 Weapons Generation Facility Inc	105,000	NM
TEXAS	Dyess	B-21 LRS Fuels Administrative Laboratory	12,800	NM
TEXAS	Dyess	B-21 Refueler Truck Yard	18,500	NM
TEXAS	Laughlin	T-7A Ground Based Training System Facility	38,000	NM
TEXAS	Laughlin	T-7A Unit Maintenance Training Facility	18,000	NM
UTAH	Hill	T-7A Depot Maintenance Complex, Inc	50,000	NM
WYOMING	F E Warren	GBSD Consolidated Maintenance Facility	194,000	NM
WYOMING	F E Warren	GBSD Land Acquisition Phase 2	139,000	NM
WYOMING	F E Warren	GBSD Utility Corridor, Inc	70,000	NM
New Mission TOTAL:			1,389,700	
WORLDWIDE UNSPECIFIED	Various Locations	Planning and Design	439,926	P&D
WORLDWIDE UNSPECIFIED	Various Locations	Unspecified Minor Military Construction	129,600	UMMC
Central Program TOTAL:			569,526	
Active AF Program TOTAL:			3,187,126	

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2025
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ACC – AIR COMBAT COMMAND

AETC – AIR EDUCATION AND TRAINING COMMAND

AFGSC – AIR FORCE GLOBAL STRIKE COMMAND

AFMC – AIR FORCE MATERIEL COMMAND

PACAF – PACIFIC AIR FORCES

USAFE – UNITED STATES AIR FORCE – EUROPE

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2025
SPECIAL PROGRAM CONSIDERATIONS**

ECONOMIC CONSIDERATIONS

An economic evaluation has been accomplished for all projects costing over 2 million dollars where viable options existed and the results are addressed in the individual DD Forms 1391.

DESIGN FOR ACCESSIBILITY OF PHYSICALLY HANDICAPPED PERSONNEL

In accordance with Public Law 90-480 provisions for physically handicapped personnel will be provided for, where appropriate, in the design of facilities included in this program.

ENVIRONMENTAL STATEMENT

In accordance with Section 102(2)(c) of the National Environmental Policy Act of 1969 (PL 91-190), the environmental impact analysis process (EIAP) has been completed or is actively underway for all projects in the Air Force FY 2024 Military Construction Program.

EVALUATION OF FLOOD PLAINS AND WETLANDS

All projects in the program have been 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. 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.

OVERSEAS OPERATIONS COSTS (OOC)

The Department of the Air Force supports the President's European Deterrence Initiative (EDI) to help increase the capability of U.S. allies and partners. A key enabler for contingency options is sufficiently robust infrastructure at key locations to support military activities.

The FY 2025 Overseas Operations Costs accounted for in the base budget totals \$110,000,000 and are as follows:

- DABS-FEV Storage at Karup Air Base. This requirement is enduring in theater that will likely remain after combat operations cease.

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2025
CONGRESSIONAL REPORTING REQUIREMENTS**

1. STATEMENTS ON NATO ELIGIBILITY

These are in response to the requirement in the FY 1988 Senate Appropriations Committee Report, 100-200, page 13, and are included in the appropriate project justification.

2. NEW AND CURRENT MISSION ACTIVITIES

The FY 1989 Senate Appropriations Committee Report, 100-380, pages 10 and 11, identified a requirement to include an exhibit in the budget justification books that displayed required projects in two separate categories: New Mission and Current Mission. The CM (current mission) or NM (new mission) designation, which follows the project on the listing at page 10, identifies each project as new or current mission. Additionally, each justification in Block 11 of the DD Form 1391 indicates whether the project supports a new or current mission.

3. REAL PROPERTY ADMINISTRATION

The FY 1977 House Appropriations Committee Report, 104-591, page 11, requested the Department to provide the real property maintenance backlog at all installations for which there is a requested construction project. Each DD Form 1390 reflects this information in block 12. In addition, the report requested all troop housing requests to show all real property maintenance conducted in the past two years and all future requirements for unaccompanied housing at that installation. Each DD Form 1391 for troop housing reflects this information in block 11.

4. METRIC CONVERSION

The FY 1999 House Appropriation Committee Report, 105-578, page 11, requested the Department to ensure that any Form 1390/1391, which is presented as justification in metric measurement, shall include parenthetically the English measurement. Each DD Form 1391 reflects the metric and English equivalent in block 11.

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2025
APPROPRIATION SOUGHT FOR PREVIOUSLY AUTHORIZED PROJECTS**

APPROPRIATIONS SOUGHT FOR FY20 AUTHORIZATIONS

In the FY2025 President’s Budget, the Department is requesting appropriation in the amount of \$238.0 million total for one project that was authorized in the National Defense Authorization Act for Fiscal Year 2020 (P.L.116-92). The Weapons Storage and Maintenance Facility at Malmstrom Air Force Base which has been previously authorized, and the Department is requesting the amounts be appropriated as specified in this budget estimate.

APPROPRIATIONS SOUGHT FOR FY23 AUTHORIZATIONS

In the FY2025 President’s Budget, the Department is requesting appropriation in the amount of \$237.7 million total for two projects that were authorized in the National Defense Authorization Act for Fiscal Year 2023 (P.L.117-263). The Weapons Generation Facility (WGF) at Ellsworth Air Force Base and Theater Aircraft Corrosion Control Center at Kadena Air Base which have been authorized and the Department is requesting the amounts be appropriated as specified in this budget estimate.

APPROPRIATIONS SOUGHT FOR FY24 AUTHORIZATIONS

In the FY2025 President’s Budget, the Department is requesting appropriation in the amount of \$64.0 million total for one project that were authorized in the National Defense Authorization Act for Fiscal Year 2024 (P.L. 118-31). The Battle Management Combined Operations Complex at Robins Air Force Base is expected to be authorized and the Department is requesting the amounts be appropriated as specified in this budget estimate.

**DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2025
APPROPRIATION LANGUAGE**

FY2025 MILITARY CONSTRUCTION AIR FORCE

For acquisition, construction, installation and equipment of temporary or permanent public works, military installations, facilities, and real property of the Air Force as currently authorized by law, \$3,187,126 to remain available until September 30, 2029: Provided that, of this amount, not to exceed \$439,926 shall be available for study, planning, design, and architect and engineer services, as authorized by law, unless the Secretary of the Air Force 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 therefor.

1. COMPONENT AIR FORCE		FY <u>2025</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION JOINT BASE ELMENDORF-RICHARDSON, ALASKA				4. COMMAND PACIFIC AIR FORCES			5. AREA CONSTRUCTION COST INDEX 2.13				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30 SEP 23		693	3,588	2,402	0	9	0	70	586	24	7,372
b. END FY		693	3,588	2,402	0	9	0	70	586	24	7,372
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE								78,587			
b. INVENTORY TOTAL AS OF 30 SEP 23								21,410,899.00			
c. AUTHORIZATION NOT YET IN INVENTORY								251,000.00			
d. AUTHORIZATION REQUESTED IN THIS PROGRAM								250,000.00			
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM								0.00			
f. PLANNED IN NEXT THREE PROGRAM YEARS								0.00			
g. REMAINING DEFICIENCY								749,000.00			
h. GRAND TOTAL								22,660,899.00			
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				
171-212	JOINT INTEGRATED TEST AND TRAINING CTR, INC		13,970 SM		126,000	06/23	08/24				
9. FUTURE PROJECTS 171-212 Joint Integrated Test and Training Ctr, Inc (13,970 SM / \$124,000)											
10. MISSION OR MAJOR FUNCTIONS JBER is home to the 3rd Wing (3WG), HQ Alaskan Command, HQ U.S. Army Alaska, Alaskan NORAD Region, and 11th Air Force. Its mission provides air supremacy, surveillance, worldwide airlift, and agile combat support forces to project global power and global reach and training and readiness oversight responsibilities for Army Force Generation in Alaska. It is host to an operations group with squadrons of E-3B, C-17, F-22A and C-12 aircraft, as well as 15 tenant units including the Air Force Reserve's 477th Fighter Group, among others.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024			
3. INSTALLATION AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ALASKA			4. PROJECT TITLE JOINT INTEGRATED TEST AND TRAINING CTR, INC					
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 171-212	7. PROJECT NUMBER FXSB263002		8. PROJECT COST (\$000) Auth:250,000 Appr:126,000			
9. COST ESTIMATES								
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES								207,250
FLIGHT SIMULATOR TRAINING (171-212)					SM	13,970	12,033	(168,101)
ICD 705 PREMIUM					LS			(35,626)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS					LS			(3,523)
SUPPORTING FACILITIES								14,666
UTILITIES					LS			(2,576)
SITE PREPARATION					LS			(3,186)
ROADS, SIDEWALKS, AND PARKING					LS			(3,855)
SITE IMPROVEMENTS					LS			(678)
COMMUNICATIONS					LS			(835)
GENERATOR					KW			(3,091)
PASSIVE FORCE PROTECTION MEASURES					LS			(202)
PRIVATIZED UTILITIES SERVICE AND CONNECTION					LS			(243)
SUBTOTAL								221,916
CONTINGENCY (5.00%)								11,096
TOTAL CONTRACT COST								233,012
SUPERVISION, INSPECTION AND OVERHEAD (7.30%)								17,010
TOTAL REQUEST								250,022
TOTAL REQUEST (ROUNDED)								250,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(38,095)
10. DESCRIPTION OF PROPOSED CONSTRUCTION								
<p>Construct a two-story flight simulator training facility with reinforced concrete foundations, structural steel frame, insulated steel panel and masonry walls, and standing seam metal and membrane roof in a cold weather region. Functional areas containing simulator spaces, mission support spaces, secure and non-secure operational space, non-secure administrative space, building entrance with security check-in and general support spaces for handling of secure information. Provide controlled space that meets Intelligence Community Directive 705 standards. The primary facility consists of structure and foundations; exterior envelope; elevator conveyance systems; electrical/mechanical service and distribution components and systems; fire alarm and suppression systems; information technology, communications, cyber security and security systems infrastructure. Interior space includes raised access floor systems, interior partitions and ceilings, power, lighting, plumbing, environmental control and communications and finishes. Heating, ventilation, and air conditioning systems will be self-contained systems. Provide a building management system compatible with the central system currently used by Joint Base Elmendorf-Richardson. The primary facility includes comprehensive interior design. Utilities include water, wastewater, stormwater, natural gas, communication, and electrical (may include new substation duct banks, conductors and pedestals if required in final design). Site infrastructure includes primary electrical service to the site, water, sewer,</p>								

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ALASKA		4. PROJECT TITLE JOINT INTEGRATED TEST AND TRAINING CTR, INC		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 171-212	7. PROJECT NUMBER FXSB263002	8. PROJECT COST (\$000) Auth:250,000 Appr:126,000	
<p>gas, and telecommunications pathways. Install diesel-powered backup generators with day tanks and secondary containment. All utilities will be installed underground. Connect to privatized natural gas utility. Air condition of 400 Tons will be provided, and process cooling of 1,000 Tons will be provided. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/ force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 1,400 Tons</p>				
11. REQ: 13,970 SM ADQT: 0 SUBSTD: 0				
<p>PROJECT: Joint Integrated Test and Training Center</p>				
<p>REQUIREMENT: The Center's design will facilitate warfighters to engage in face-to-face mission planning, briefing, execution supervision, and debriefing at the highest tactical and operational levels, commonly seen at the Air Force Weapons School, Exercise Red Flag, and Exercise Neptune large force exercise and integration events. Depending on the maturation of Live, Virtual, Constructive technology, this facility should enable integration of virtual/constructive tracks on the Joint Pacific Alaska Range Complex when desiring to increase threat density through constructive air and surface entities, as well as integrating man-in-the-loop synthetic-inject-to-live simulator cockpits into the live-fly environment. Additionally, while the current technology readiness of distributed synthetic training networks is inadequate for high-fidelity test and training, the center's design will incorporate and enable possible future distributed operations (e.g., secure video teleconferences). This is not a tenant or supported service requirement.</p>				
<p>CURRENT SITUATION: The United States Joint Forces do not have a government-owned facility/capability to allow warfighters to exercise high-end, test-level, integrated training and tactics development in a virtual environment. The live-fly environment currently does not permit the highest levels of joint integration due to inaccurate replication (i.e., real-life all-domain adversaries), airspace constraints, and operational security concerns. As stated by both Commander, Pacific Air Forces, and A3, Headquarters Air Force, the only place to achieve adequate replication in an unconstrained synthetic environment, while not revealing fragile blue capabilities to the enemy, is in the Joint Integrated Test and Training Center.</p>				
<p>IMPACT IF NOT PROVIDED: There will be no single-site location for the entire "Night-One" joint and combined forces to accurately train for the peer fight while adhering to operational security principles, protecting fragile capabilities, and observing</p>				

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ALASKA		4. PROJECT TITLE JOINT INTEGRATED TEST AND TRAINING CTR, INC	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 171-212	7. PROJECT NUMBER FXSB263002	8. PROJECT COST (\$000) Auth:250,000 Appr:126,000

airspace restrictions. The Joint Force will not have a single-site government owned facility and will continue to be beholden to high-cost proprietary contractor facilities that do not fully meet mission needs.

ADDITIONAL:

This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. All reasonable alternatives were considered during the development of this project to include status quo and new construction. New construction is the only viable option to meet this requirement. A formal economic analysis is in progress. Sustainable principles, to include life-cycle cost- effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. This project was included in the Fiscal Year 2024 future years defense plan in Fiscal Year FY25. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. The construction growth offset for this requirement is 150,372 square feet. The cost estimate for this project varies from the DoD Facilities Pricing Guide due to details identified during the Planning Charrette, the design process, and the application of parametric cost estimating tools. The Pricing Guide does not provide pricing for this type of facility and does address the weather-related requirements of construction in Alaska.

673rd Air Base Wing, Base Civil Engineer: (907) 552-3007.

Flight Simulator Training: 13,970 square meters = 150,372 square feet.

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 Air Force requirements.

1. COMPONENT	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
AIR FORCE			FEBRUARY 2024
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
JOINT BASE ELMENDORF-RICHARDSON ALASKA		JOINT INTEGRATED TEST AND TRAINING CTR, INC	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)
91211F	171-212	FXSB263002	Auth:250,000 Appr:126,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	01-JUN-23		
(c) Parametric Cost Estimating Used to Develop Costs	YES		
(d) Percent Complete as of 01 JAN 2024	50%		
(e) Date 35% Designed	01-NOV-23		
(f) Date Design Complete	01-AUG-24		
(g) Energy Study/Life-cycle analysis was performed	YES		
(2) Basis:			
(a) Standard or Definitive Design	NO		
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)			
(a) Production of Plans and Specifications	14,940		
(b) All Other Design Costs	7,470		
(c) Total	22,410		
(d) Contract	18,675		
(e) In-house	3,735		
(4) Construction Contract Award	2025-FEB		
(5) Construction Start	2025-MAY		
(6) Construction Completion	2027-DEC		
b. Equipment associated with this project provided from other appropriations:			
<u>EQUIPMENT NOMENCLATURE</u>	<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>
Furniture & Equipment	3080	2026	27,095
Construction Security Surveill	3080	2025	11,000

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION JOINT BASE ELMENDORF-RICHARDSON ALASKA		4. PROJECT TITLE JOINT INTEGRATED TEST AND TRAINING CTR, INC		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 171-212	7. PROJECT NUMBER FXSB263002	8. PROJECT COST (\$000) Auth:250,000 Appr:126,000	

12. SUPPLEMENTAL DATA (CONTINUED..)

c. Authorization and Appropriation Summary:

	Authorization \$(000)	Auth of Approp \$(000)	Appropriation \$(000)
FY2025 Request	250,000	126,000	126,000
Future Budget Request	0	124,000	124,000
Total	250,000		250,000

Spend Plan

CAO: 04-Dec-23

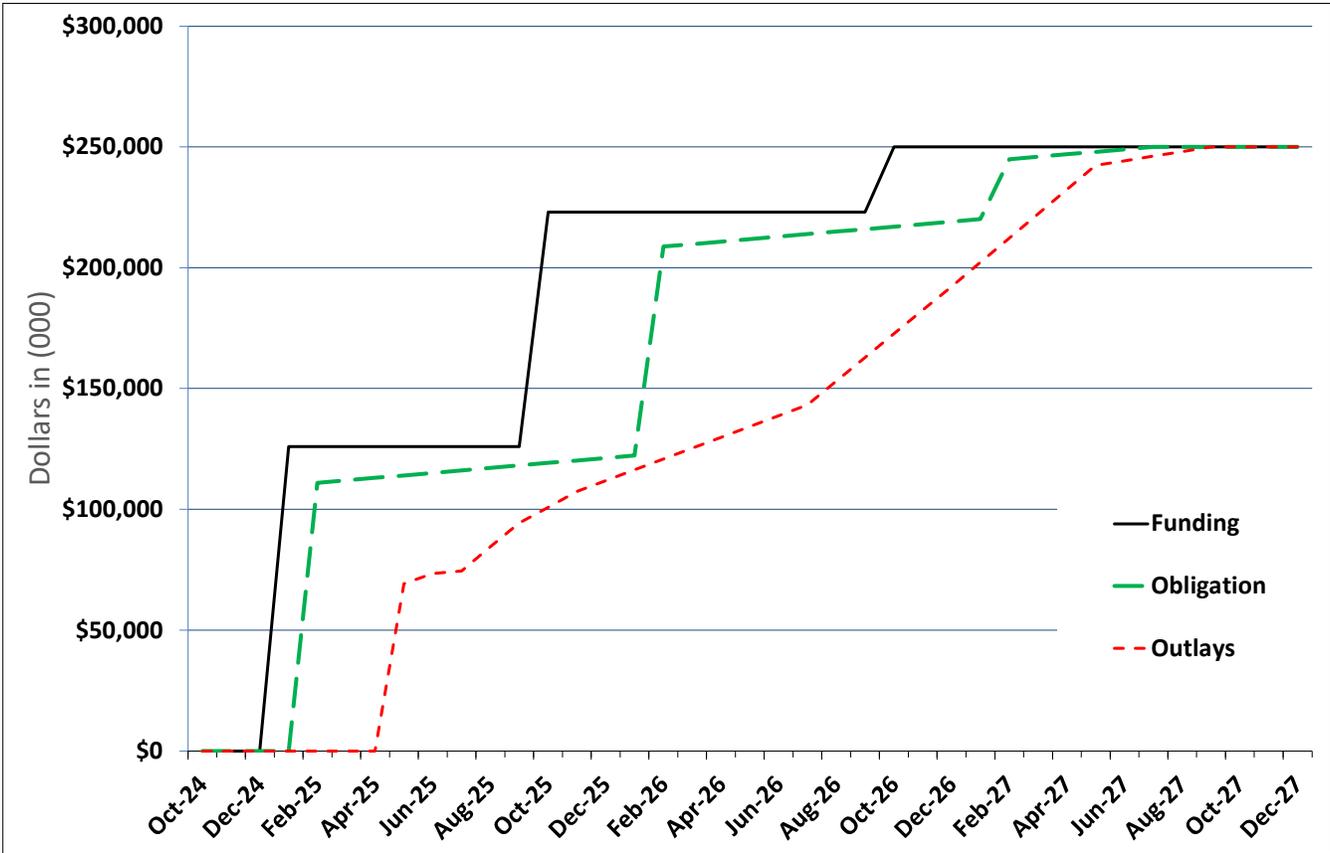
Project Title:	Joint Integrated Test and Training Ctr, Inc
Installation:	JB Elmendorf-Richardson, AK
Program Year	2025
Project #	FXSB263002

All Cost in thousands

Chart Begin Oct-24	FUNDING (note 1)		OBLIGATION (note 2-3)		OUTLAYS (note 4-5)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-24	-	-	-	-	-	-
Nov-24	-	-	-	-	-	-
Dec-24	-	-	-	-	-	-
Jan-25	126,000	126,000	-	-	-	-
Feb-25	-	126,000	110,962	110,962	-	-
Mar-25	-	126,000	1,029	111,991	-	-
Apr-25	-	126,000	1,029	113,020	-	-
May-25	-	126,000	1,029	114,049	69,206	69,206
Jun-25	-	126,000	1,029	115,077	4,203	73,409
Jul-25	-	126,000	1,029	116,106	1,112	74,521
Aug-25	-	126,000	1,029	117,135	9,938	84,459
Sep-25	-	126,000	1,029	118,164	9,938	94,397
Oct-25	97,000	223,000	1,029	119,193	6,489	100,886
Nov-25	-	223,000	1,029	120,222	6,489	107,375
Dec-25	-	223,000	1,029	121,251	4,486	111,861
Jan-26	-	223,000	1,029	122,280	4,486	116,347
Feb-26	-	223,000	86,452	208,732	4,486	120,833
Mar-26	-	223,000	1,029	209,760	4,486	125,319
Apr-26	-	223,000	1,029	210,789	4,486	129,805
May-26	-	223,000	1,029	211,818	4,486	134,291
Jun-26	-	223,000	1,029	212,847	4,486	138,777
Jul-26	-	223,000	1,029	213,876	4,486	143,263
Aug-26	-	223,000	1,029	214,905	9,793	153,056
Sep-26	-	223,000	1,029	215,934	9,793	162,849
Oct-26	27,000	250,000	1,029	216,963	9,793	172,642
Nov-26	-	250,000	1,029	217,991	9,793	182,435
Dec-26	-	250,000	1,029	219,020	9,793	192,228
Jan-27	-	250,000	1,029	220,049	10,015	202,243
Feb-27	-	250,000	24,806	244,856	10,015	212,258
Mar-27	-	250,000	1,029	245,884	10,015	222,273
Apr-27	-	250,000	1,029	246,913	10,015	232,288
May-27	-	250,000	1,029	247,942	10,015	242,303
Jun-27	-	250,000	1,029	248,971	1,931	244,234
Jul-27	-	250,000	1,029	250,000	1,922	246,156
Aug-27	-	250,000	-	250,000	1,922	248,078
Sep-27	-	250,000	-	250,000	1,922	250,000
Oct-27	-	250,000	-	250,000	-	250,000
Nov-27	-	250,000	-	250,000	-	250,000
Dec-27	-	250,000	-	250,000	-	250,000

Notes	
Note 1:	Assumes initial appropriation is enacted by Congress Jan FY 2025.
Note 2:	Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.
Note 3:	Assumes ALL project funds (contract, SIOH, contingency, etc) are obligated NLT 6 months prior to project end
Note 4	Assumes contract award in FEB 25 and contract completion DEC 27; duration 35 months.
Note 5	Assumes Agent will retain 1% of project obligations for a final payment

Joint Integrated Test and Training Ctr, Inc, JB Elmendorf-Richardson, AK



1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION VANDENBERG SPACE FORCE BASE, CALIFORNIA				4. COMMAND AIR FORCE GLOBAL STRIKE COMMAND			5. AREA CONSTRUCTION COST INDEX 1.23				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30 SEP 23		212	1,155	924	200	75	0	653	1,864	1,413	6,496
b. END FY		195	1,155	920	200	75	0	625	1,851	1,420	6,441
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE								119,440			
b. INVENTORY TOTAL AS OF 30 SEP 23								6,836,502.00			
c. AUTHORIZATION NOT YET IN INVENTORY								156,000.00			
d. AUTHORIZATION REQUESTED IN THIS PROGRAM								277,000.00			
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM								0.00			
f. PLANNED IN NEXT THREE PROGRAM YEARS								0.00			
g. REMAINING DEFICIENCY								555,200.00			
h. GRAND TOTAL								7,824,702.00			
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				
141-912	GBSD Re-Entry Vehicle Facility		1,152 SM		110,000	07/20	07/24				
171-623	Sentinel AETC Formal Training Unit		14,205 SM		167,000	04/23	12/23				
9. FUTURE PROJECTS N/A											
10. MISSION OR MAJOR FUNCTIONS Vandenberg SFB's host unit, the 30th Space Wing, supports West Coast launch activities for the Air Force, Department of Defense, National Aeronautics and Space Administration, national programs and various private industry contractors. The Wing supports the processing and launch of a variety of expendable vehicles including Atlas V, Delta IV, Delta II, Pegasus, Minotaur, Taurus and Falcon. The Wing also supports Force Development and Evaluation of all intercontinental ballistic missiles, as well as Missile Defense Agency (MDA) test and operations.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024			
3. INSTALLATION AND LOCATION VANDENBERG SPACE FORCE BASE CALIFORNIA			4. PROJECT TITLE GBSD RE-ENTRY VEHICLE FACILITY					
5. PROGRAM ELEMENT 11233F		6. CATEGORY CODE 141-912	7. PROJECT NUMBER XUMU222919		8. PROJECT COST (\$000) 110,000			
9. COST ESTIMATES								
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES								81,944
RE-ENTRY VEHICLE BUILDING (141-912)					SM	1,152	44,725	(51,523)
SHOP, SURVEILLANCE AND INSPECTION (215-582)					SM	743	24,330	(18,077)
MUNITIONS MAINTENANCE ADMINISTRATION (610-144)					SM	427	26,455	(11,296)
ICD 705 PREMIUM					LS			(795)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS					LS			(253)
SUPPORTING FACILITIES								16,570
UTILITIES					LS			(8,100)
ROADS, SIDEWALKS, AND PARKING					LS			(2,200)
SITE IMPROVEMENTS					LS			(2,700)
COMMUNICATIONS					LS			(3,570)
SUBTOTAL								98,514
CONTINGENCY (5.00%)								4,926
TOTAL CONTRACT COST								103,440
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)								6,724
TOTAL REQUEST								110,164
TOTAL REQUEST (ROUNDED)								110,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(1,130)
10. DESCRIPTION OF PROPOSED CONSTRUCTION								
<p>Construct a single story Re-entry Vehicle Maintenance facility at North Base, Vandenberg Air Force Base to support Ground Based Strategic Deterrent operations, and accommodate a missile maintenance crew. The primary facility will be used to house re-entry vehicles, penetration aids, payload mounting platforms and aerodynamic shrouds that are assembled into re-entry system packages for intercontinental ballistic missile. The project will consist of concrete foundations and blast walls, electrical/mechanical service and distribution components/systems, water and sewer, fire protection, lightning protection, security and communications systems, and three to five five-ton cranes to lift critical hardware. The facility will be located within a secure boundary and built to anti-terrorism/force protection PL4 standards. The facility will have secure storage rooms that will be built to Intelligence Community Directive 705 standards. Processing bays will be built to explosive standards. Site improvements include clearing, grubbing, grading, demolition, as applicable, paving, walkways, holding tank and storm drainage, and all other supporting facilities to provide a complete and usable facility. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/ force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 100 Tons</p>								
11. REQ:		1,152 SM	ADQT:		0	SUBSTD:		0

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION VANDENBERG SPACE FORCE BASE CALIFORNIA		4. PROJECT TITLE GBSD RE-ENTRY VEHICLE FACILITY	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-912	7. PROJECT NUMBER XUMU222919	8. PROJECT COST (\$000) 110,000
PROJECT: Construct a Ground Based Strategic Deterrent Re-Entry Vehicle Maintenance Facility.			
REQUIREMENT: A Ground Based Strategic Deterrent Re-Entry Vehicle Maintenance facility is required to support the Ground Based Strategic Deterrent testing activities scheduled to start in FY26, without interruptions to the Minuteman III test launch schedule. The explosive-sited facility is required to perform mission critical maintenance, and post boost maintenance, for the new Ground Based Strategic Deterrent Intercontinental Ballistic Missiles. The critical facility shall include a Payload Transporter loading/operations bay with a shipping and receiving area. The facility will have calibration and maintenance bays, a storage bay, equipment staging areas to support the operational bay, and administrative/common areas to support the 22 missile maintenance crew/staff. This is an Air Force Global Strike Command tenant requirement.			
CURRENT SITUATION: Existing Minuteman III re-entry vehicle facility is 100% allocated to the Minuteman III mission. No additional space on the installation exists to support a re-entry vehicle function to support the additional Ground Based Strategic Deterrent mission. The facility is an explosive-sited facility necessary to prepare the missile for launch, maintenance, and storage. Currently any issue that arises for the Propulsion System Rocket Engine results in a bottleneck for the flow of operations. Current crane hook height for Minuteman III operations is deficient, and additional headroom is required to support Ground Based Strategic Deterrent test functions/operations.			
IMPACT IF NOT PROVIDED: The Ground Based Strategic Deterrent program is scheduled to start Developmental Test FY26 and Operational Test in FY29 to meet the deployment schedule of FY31. If facility is not provided on time, then Developmental Test and Operational Test will be delayed, and initial operational capability will not be met.			
ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. Scope was determined using the less predominant category codes 215-582 and 610-144, because the Air Force Manual 32-1084 does not provide sufficient design requirements for the predominant category code. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facility Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from the U.S. Army Corps of Engineers. A waiver to an Economic Analysis has been approved for this project. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating			

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION VANDENBERG SPACE FORCE BASE CALIFORNIA	4. PROJECT TITLE GBSD RE-ENTRY VEHICLE FACILITY
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5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 141-912	7. PROJECT NUMBER XUMU222919	8. PROJECT COST (\$000) 110,000
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systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within the 100-year flood plain. This project was not included in the Fiscal Year 2024-2028 future years' defense plan. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. Supporting Facilities exceed 25% of the Primary Facilities due to the amount of utilities, including tank installation, storm drainage, and site work associated with the project location. The construction growth offset for this requirement is 24,994 square feet.

30th Space Wing Base Civil Engineer: 805-605-8591

Re-Entry Vehicle Building: 1,152 Square Meters = 12,400 Square Feet;
 Shop, Surveillance and Inspection: 743 Square Meters = 7,998 Square Feet;
 Munitions Maintenance Administration: 427 Square Meters = 4,596 Square Feet.

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 Air Force requirements.

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION VANDENBERG SPACE FORCE BASE CALIFORNIA			4. PROJECT TITLE GBSD RE-ENTRY VEHICLE FACILITY		
5. PROGRAM ELEMENT 11233F		6. CATEGORY CODE 141-912	7. PROJECT NUMBER XUMU222919	8. PROJECT COST (\$000) 110,000	
12. SUPPLEMENTAL DATA:					
a. Estimated Design Data:					
(1) Status:					
(a) Type of Design				Design-Bid-Build	
(b) Date Design Started				01-JUL-20	
(c) Parametric Cost Estimating Used to Develop Costs				YES	
(d) Percent Complete as of 01 JAN 2024				35%	
(e) Date 35% Designed				01-OCT-23	
(f) Date Design Complete				01-JUL-24	
(g) Energy Study/Life-cycle analysis was performed				YES	
(2) Basis:					
(a) Standard or Definitive Design				NO	
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)					
(a) Production of Plans and Specifications				6,600	
(b) All Other Design Costs				3,300	
(c) Total				9,900	
(d) Contract				8,250	
(e) In-house				1,650	
(4) Construction Contract Award				2025-APR	
(5) Construction Start				2025-MAY	
(6) Construction Completion				2028-FEB	
b. Equipment associated with this project provided from other appropriations:					
<u>EQUIPMENT NOMENCLATURE</u>		<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>	
COMMUNICATIONS & IT EQUIPMENT		3080	2027	355	
FURNITURE, FIXTURES, & EQUIPME		3400	2027	268	
SECURITY EQUIPMENT		3080	2027	507	

Spend Plan

CAO: 04-Dec-23

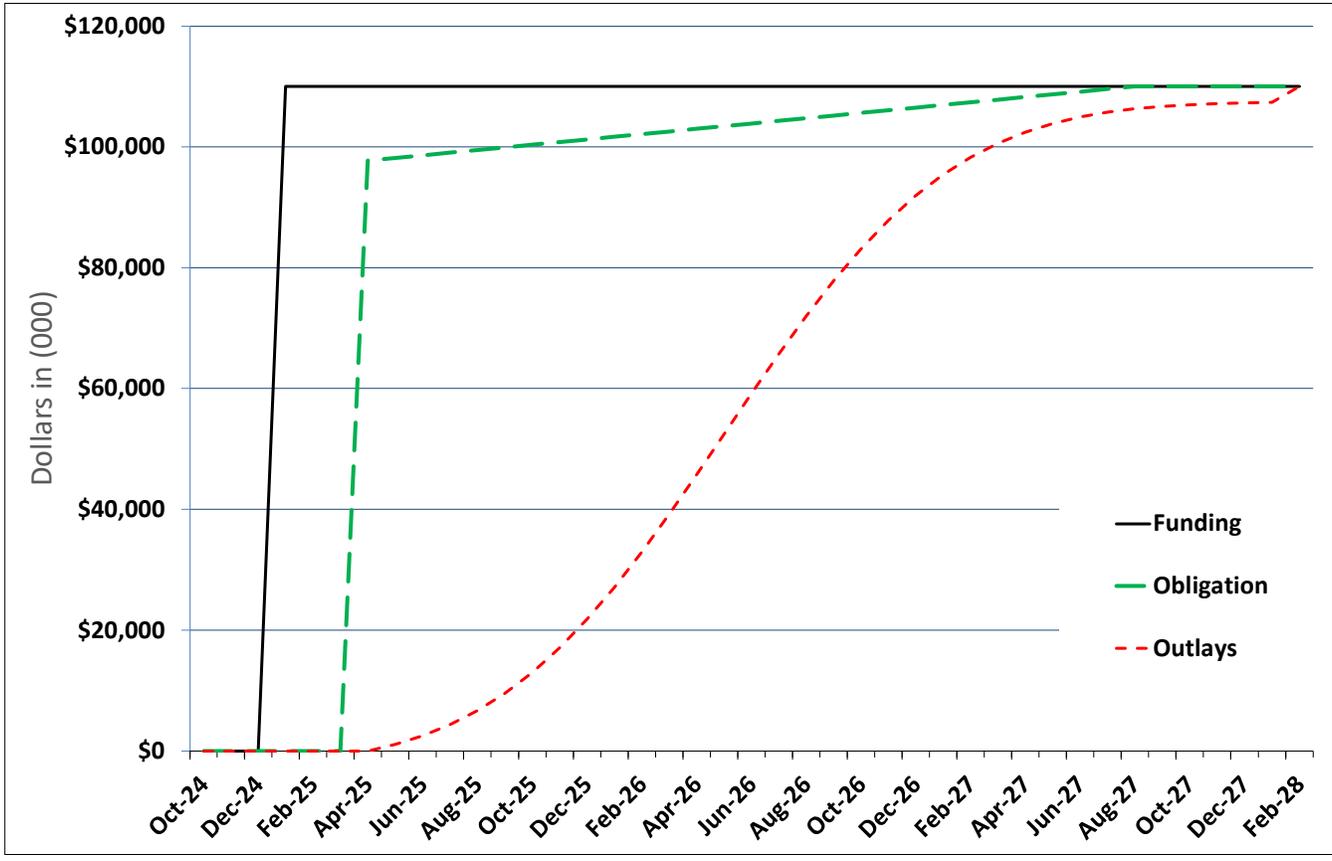
Project Title:	GBSD Re-Entry Vehicle Facility
Installation:	Vandenberg SFB, CA
Program Year	2025
Project #	XUMU222919

All Cost in thousands

Chart Begin Oct-24	FUNDING (note 1)		OBLIGATION (note 2-3)		OUTLAYS (note 4-5)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-24	-	-	-	-	-	-
Nov-24	-	-	-	-	-	-
Dec-24	-	-	-	-	-	-
Jan-25	110,000	110,000	-	-	-	-
Feb-25	-	110,000	-	-	-	-
Mar-25	-	110,000	-	-	-	-
Apr-25	-	110,000	97,708	97,708	-	-
May-25	-	110,000	439	98,147	1,073	1,073
Jun-25	-	110,000	439	98,586	1,422	2,494
Jul-25	-	110,000	439	99,025	1,842	4,336
Aug-25	-	110,000	439	99,464	2,329	6,665
Sep-25	-	110,000	439	99,903	2,878	9,544
Oct-25	-	110,000	439	100,342	3,474	13,017
Nov-25	-	110,000	439	100,781	4,095	17,112
Dec-25	-	110,000	439	101,220	4,715	21,827
Jan-26	-	110,000	439	101,659	5,303	27,130
Feb-26	-	110,000	439	102,098	5,826	32,956
Mar-26	-	110,000	439	102,537	6,251	39,207
Apr-26	-	110,000	439	102,976	6,552	45,759
May-26	-	110,000	439	103,415	6,708	52,468
Jun-26	-	110,000	439	103,854	6,708	59,176
Jul-26	-	110,000	439	104,293	6,552	65,728
Aug-26	-	110,000	439	104,732	6,251	71,979
Sep-26	-	110,000	439	105,171	5,826	77,805
Oct-26	-	110,000	439	105,610	5,303	83,108
Nov-26	-	110,000	439	106,049	4,715	87,823
Dec-26	-	110,000	439	106,488	4,095	91,918
Jan-27	-	110,000	439	106,927	3,474	95,392
Feb-27	-	110,000	439	107,366	2,878	98,270
Mar-27	-	110,000	439	107,805	2,329	100,599
Apr-27	-	110,000	439	108,244	1,842	102,441
May-27	-	110,000	439	108,683	1,422	103,863
Jun-27	-	110,000	439	109,122	1,073	104,935
Jul-27	-	110,000	439	109,561	790	105,725
Aug-27	-	110,000	439	110,000	569	106,294
Sep-27	-	110,000	-	110,000	400	106,693
Oct-27	-	110,000	-	110,000	274	106,968
Nov-27	-	110,000	-	110,000	184	107,152
Dec-27	-	110,000	-	110,000	121	107,272
Jan-28	-	110,000	-	110,000	77	107,349
Feb-28	-	110,000	-	110,000	2,651	110,000

Notes	
Note 1:	Assumes initial appropriation is enacted by Congress Jan FY 2025.
Note 2:	Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.
Note 3:	Assumes ALL project funds (contract, SIOH, contingency, etc) are obligated NLT 6 months prior to project end
Note 4:	Assumes contract award in APR 2025 and contract completion FEB 28; duration 34 months.
Note 5:	Assumes Agent will retain 1% of project obligations for a final payment

GBSD Re-Entry Vehicle Facility, Vandenberg Space Force Base, CA



1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024			
3. INSTALLATION AND LOCATION VANDENBERG SPACE FORCE BASE CALIFORNIA				4. PROJECT TITLE SENTINEL AETC FORMAL TRAINING UNIT				
5. PROGRAM ELEMENT 11233F		6. CATEGORY CODE 171-623	7. PROJECT NUMBER XUMU212936		8. PROJECT COST (\$000) 167,000			
9. COST ESTIMATES								
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES								123,987
TECHNICAL TRAINING LABORATORY/SHOP (171-623)					SM	14,205	8,506	(120,828)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS					LS			(3,159)
SUPPORTING FACILITIES								20,381
UTILITIES					LS			(5,412)
SITE PREPARATION					LS			(3,275)
ROADS, SIDEWALKS, AND PARKING					LS			(4,647)
COMMUNICATIONS					LS			(665)
PRIVATIZED UTILITIES SERVICE AND CONNECTION					LS			(6,382)
SUBTOTAL								144,368
CONTINGENCY (5.00%)								7,218
TOTAL CONTRACT COST								151,586
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)								9,853
DESIGN/BUILD - DESIGN COST (4.00% OF SUBTOTAL)								5,775
TOTAL REQUEST								167,214
TOTAL REQUEST (ROUNDED)								167,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(14,916)
10. DESCRIPTION OF PROPOSED CONSTRUCTION								
<p>Construct an Air Education and Training Command Formal Training Unit at Vandenberg Space Force Base to support Sentinel (Ground Based Strategic Deterrent) training for Maintenance and Operations. A single training facility will integrate student instruction and lab curriculum reducing student transit between multiple venues and facilitate instructor collaboration.</p> <p>The Sentinel Air Education and Training Formal Training Unit will be located near the existing Minuteman III training facilities off California and Washington Ave. The structure will consist of a steel core structure with concrete foundations, electrical/mechanical service and distribution components/systems, water and sewer, fire protection, lightning protection, security and communications systems. Some areas within the secure space of the AETC Formal Training Unit will require additional security depending on the final determination for clearance levels based upon the training curriculum. No outside communication connections for training purposes will be needed for this facility. Site improvements include clearing, grubbing, grading, minor demolition, paving, walkways, and storm drainage.</p> <p>The facility will be comprised of Maintenance Training Bays, Operations Training Labs, Air Education and Training Command Headquarters and Training Instructor offices, and Academic Space. There will be approximately 113 parking spaces required for this facility. The Maintenance Training Bays will facilitate new personnel with initial training for maintenance tasks associated with Sentinel (Ground Based Strategic Deterrent) weapon system.</p>								

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION VANDENBERG SPACE FORCE BASE CALIFORNIA			4. PROJECT TITLE SENTINEL AETC FORMAL TRAINING UNIT		
5. PROGRAM ELEMENT 11233F		6. CATEGORY CODE 171-623	7. PROJECT NUMBER XUMU212936	8. PROJECT COST (\$000) 167,000	
<p>One of the bays will allow parking of Payload Transporter, Maintenance Vans, and government operating vehicles and have driving lanes to California Blvd. Two overhead cranes will be needed in the maintenance training bays to assist with oversized trainers. The Operations Training Labs will consist of Launch Controller Crew Procedures Trainers and other lab/training spaces to house the initial training for operations personnel. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/ force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 650 Tons</p>					
11. REQ: 14,205 SM ADQT: 0 SUBSTD: 0					
PROJECT: Sentinel Air Education and Training Command Formal Training Unit to support Ground Based Strategic Deterrent.					
REQUIREMENT: The Air Education and Training Command Formal Training Unit will consolidate initial training for maintenance and operations into one facility for the Ground Based Strategic Deterrent. A single training facility will integrate student instruction and lab curriculum reducing student transit between multiple venues, and facilitate instructor collaboration. The Minuteman III weapon system will continue to maintain its mission capability throughout the Ground Based Strategic Deterrent deployment cycle (phased approach).					
CURRENT SITUATION: There is not a Formal Training Unit at Vandenberg Space Force Base. The Minuteman III weapon system Air Education and Training Command training center is currently housed at multiple buildings within the training complex at Vandenberg Space Force Base. The Ground Based Strategic Deterrent weapon system is an entirely overhauled system and does not emulate the Minuteman III weapon system, requiring Ground Based Strategic Deterrent specific training devices/capabilities (operations, maintenance, and security forces) that cannot be provided by the current Minuteman III training devices/capabilities. The current Minuteman III program training facility does not have the ability or capacity to accommodate new Ground Based Strategic Deterrent specific trainers and would degrade training operations to both programs.					
IMPACT IF NOT PROVIDED: Without the Air Education and Training Command Formal Training Unit the need to perform initial training for the deployment of the Sentinel (Ground Based Strategic Deterrent) program at Vandenberg Space Force Base will not be possible, degrading training operations for the new Ground Based Strategic Deterrent specific trainers. Minuteman III program must continue its mission capability					

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION VANDENBERG SPACE FORCE BASE CALIFORNIA		4. PROJECT TITLE SENTINEL AETC FORMAL TRAINING UNIT	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 171-623	7. PROJECT NUMBER XUMU212936	8. PROJECT COST (\$000) 167,000
<p>throughout the Sentinel (Ground Based Strategic Deterrent) deployment cycle, projected to complete in 2036. Current Minuteman III facilities do not have the ability or capacity to accommodate the new trainers.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project and there is no applicable standard design from Air Force Civil Engineer Center. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New Construction is the only viable option to meet this requirement. A formal economic analysis waiver is in progress and will be completed before approval of the President's Budget. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of the Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. This project was included in the Fiscal Year 2024-2028 future years' defense plan FY25. The Air Education and Training Command Formal Training Unit is sited in accordance with the Installation Development Plan and is within a compatible land use area. The construction growth offset for this requirement is 177,486 square feet.</p> <p>30th Space Wing Base Civil Engineer: 805-605-8591</p> <p>TECHNICAL TRAINING LABORATORY/SHOP: 14,205 SM = 152,901 Square Feet.</p> <p>JOINT USE CERTIFICATION: Mission Requirements, operational considerations, and location are incompatible with use of other components.</p>			

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION VANDENBERG SPACE FORCE BASE CALIFORNIA			4. PROJECT TITLE SENTINEL AETC FORMAL TRAINING UNIT		
5. PROGRAM ELEMENT 11233F		6. CATEGORY CODE 171-623	7. PROJECT NUMBER XUMU212936	8. PROJECT COST (\$000) 167,000	
12. SUPPLEMENTAL DATA:					
a. Estimated Design Data:					
(1) Status:					
(a) Type of Design					Design-Build
(b) Date Design Started					01-APR-23
(c) Parametric Cost Estimating Used to Develop Costs					YES
(d) Percent Complete as of 01 JAN 2024					100%
(e) Date 35% Designed					01-JAN-23
(f) Date Design Complete					01-DEC-23
(g) Energy Study/Life-cycle analysis was performed					NO
(2) Basis:					
(a) Standard or Definitive Design					NO
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)					
(a) Production of Plans and Specifications					3,847
(b) All Other Design Costs					4,530
(c) Total					8,377
(d) Contract					6,112
(e) In-house					2,265
(4) Construction Contract Award					2025-APR
(5) Construction Start					2025-MAY
(6) Construction Completion					2027-DEC
b. Equipment associated with this project provided from other appropriations:					
<u>EQUIPMENT NOMENCLATURE</u>		<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>	
Communications & IT Equipment		3400	2027	1,400	
Furniture, Fixtures, and Equip		3080	2027	3,016	
Weapon System Equipment		3600	2027	10,000	
Construction Surveillance Tech		3080	2025	500	

Spend Plan

CAO: 04-Dec-23

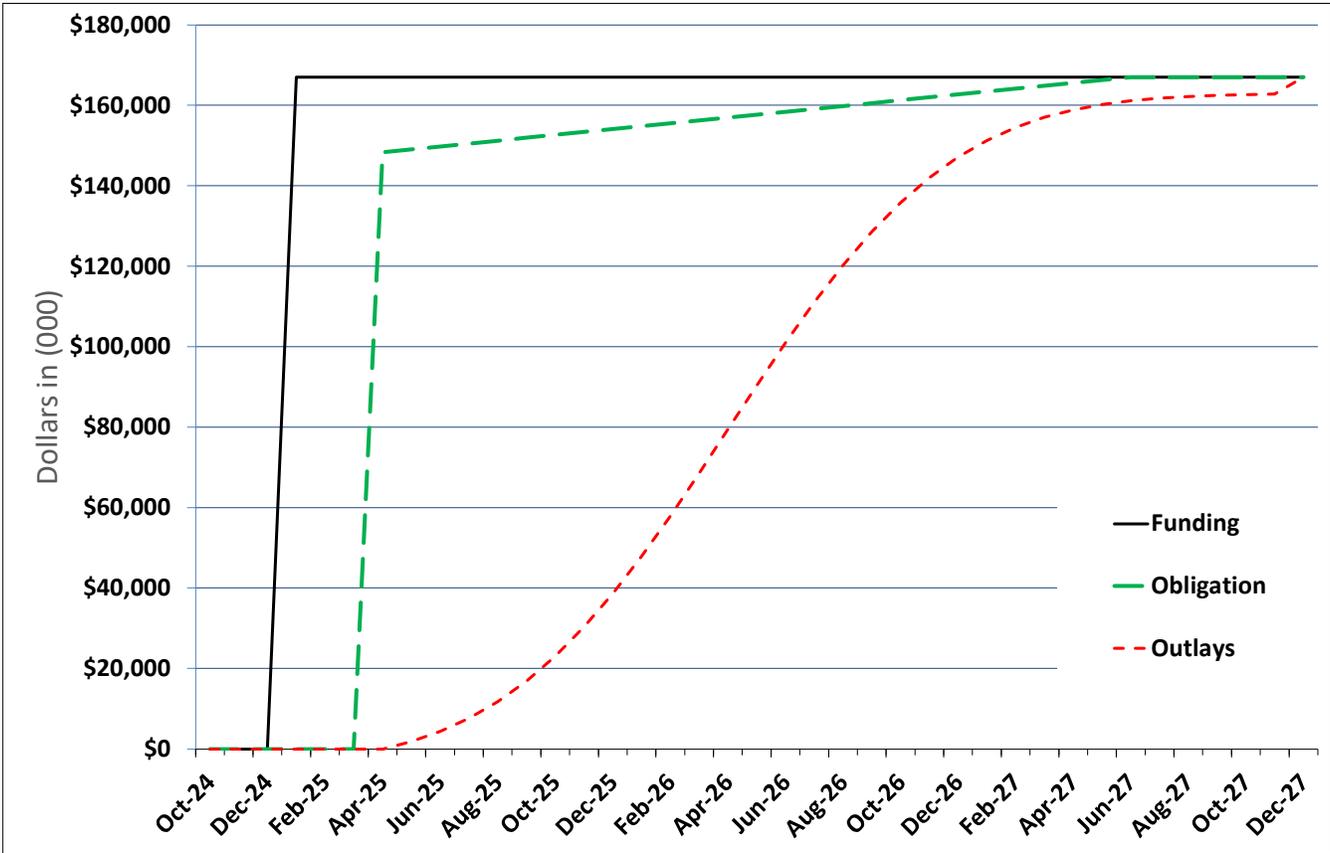
Project Title:	Sentinel AETC Formal Training Unit
Installation:	Vandenberg SFB
Program Year	2025
Project #	XUMU

All Cost in thousands

Chart Begin Oct-24	FUNDING (note 1)		OBLIGATION (note 2-3)		OUTLAYS (note 4-5)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-24	-	-	-	-	-	-
Nov-24	-	-	-	-	-	-
Dec-24	-	-	-	-	-	-
Jan-25	167,000	167,000	-	-	-	-
Feb-25	-	167,000	-	-	-	-
Mar-25	-	167,000	-	-	-	-
Apr-25	-	167,000	148,338	148,338	-	-
May-25	-	167,000	718	149,056	1,845	1,845
Jun-25	-	167,000	718	149,773	2,481	4,326
Jul-25	-	167,000	718	150,491	3,246	7,572
Aug-25	-	167,000	718	151,209	4,135	11,707
Sep-25	-	167,000	718	151,927	5,128	16,835
Oct-25	-	167,000	718	152,644	6,190	23,026
Nov-25	-	167,000	718	153,362	7,274	30,300
Dec-25	-	167,000	718	154,080	8,322	38,622
Jan-26	-	167,000	718	154,798	9,267	47,888
Feb-26	-	167,000	718	155,516	10,045	57,934
Mar-26	-	167,000	718	156,233	10,601	68,534
Apr-26	-	167,000	718	156,951	10,890	79,424
May-26	-	167,000	718	157,669	10,890	90,313
Jun-26	-	167,000	718	158,387	10,601	100,914
Jul-26	-	167,000	718	159,104	10,045	110,959
Aug-26	-	167,000	718	159,822	9,267	120,226
Sep-26	-	167,000	718	160,540	8,322	128,548
Oct-26	-	167,000	718	161,258	7,274	135,822
Nov-26	-	167,000	718	161,976	6,190	142,012
Dec-26	-	167,000	718	162,693	5,128	147,140
Jan-27	-	167,000	718	163,411	4,135	151,276
Feb-27	-	167,000	718	164,129	3,246	154,522
Mar-27	-	167,000	718	164,847	2,481	157,002
Apr-27	-	167,000	718	165,564	1,845	158,848
May-27	-	167,000	718	166,282	1,336	160,184
Jun-27	-	167,000	718	167,000	942	161,126
Jul-27	-	167,000	-	167,000	646	161,772
Aug-27	-	167,000	-	167,000	432	162,204
Sep-27	-	167,000	-	167,000	281	162,485
Oct-27	-	167,000	-	167,000	178	162,663
Nov-27	-	167,000	-	167,000	110	162,772
Dec-27	-	167,000	-	167,000	4,228	167,000

Notes	
Note 1:	Assumes initial appropriation is enacted by Congress Jan FY 2025.
Note 2:	Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.
Note 3:	Assumes ALL project funds (contract, SIOH, contingency, etc) are obligated NLT 6 months prior to project end
Note 4	Assumes contract award in APR 2025 and contract completion DEC 27; duration 32 months.
Note 5	Assumes Agent will retain 1% of project obligations for a final payment

Sentinel AETC Formal Training Unit, Vandenberg SFB



1. COMPONENT AIR FORCE		FY <u>2025</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE, FLORIDA					4. COMMAND AIR FORCE MATERIEL COMMAND			5. AREA CONTRUCTION COST INDEX 0.91			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30-SEP-23		735	1,594	8,622	824	3,537	873	600	2,575	1,670	21,030
b. END FY		735	1,594	8,622	824	3,537	873	600	2,575	1,670	21,030
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										464,906	
b. INVENTORY TOTAL AS OF 30 SEP 23										7,466,951.00	
c. AUTHORIZATION NOT YET IN INVENTORY										23,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										0.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										137,000.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										169,000.00	
g. REMAINING DEFICIENCY										1,599,500.00	
h. GRAND TOTAL										9,395,451.00	
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				
317-315	LRSO HARDWARE SOFTWARE DEVELOPMENT TEST, CTC		1,021 SM		8,400	11/22	02/24				
9. FUTURE PROJECTS											
740-884 Child Development Center (3,493 SM/\$34M)											
211-111 F-35A Developmental Test 2-Bay Mx Hangar (3,848 SM/\$41M)											
211-111 F-35A Developmental Test 2-Bay Test Hangar (3,566 SM/\$39M)											
141-753 F-35A ADAL Squadron Operations (2,252 SM/\$23M)											
610-249 EMSO Superiority Complex (18,437 SM/\$169M)											
10. MISSION OR MAJOR FUNCTIONS											
Eglin AFB, is home to the Air Force Materiel Command's 96th Test Wing (96 TW). The 96 TW is the test and evaluation center for Air Force air-delivered weapons, navigation and guidance systems, Command and Control systems, and Air Force Special Operations Command systems. The 96 TW provides expert evaluation and validation of the performance of systems (design through sustainment) for a wide variety of customers including: Air Force Systems Program Offices, the Air Force Research Laboratory, logistics / product centers, major commands, other DoD services / U. S. government agencies, foreign military sales, and private industry. The Eglin host wing supports 9 wings / wing equivalents, 11 operating locations / detachments (including the Eglin Gulf Test Range of approximately 120,000 square miles of over water airspace), and 35+ associate units. Eglin AFB is also home to one of three Air Force combat-coded control and reporting centers and one of two DoD units to achieve level five software engineering status.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES											
N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024				
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE FLORIDA			4. PROJECT TITLE LRSO HARDWARE SOFTWARE DEVELOPMENT TEST, CTC						
5. PROGRAM ELEMENT 64932F		6. CATEGORY CODE 317-315	7. PROJECT NUMBER FTFA213201		8. PROJECT COST (\$000) Auth: 0 Appr: 8,400				
9. COST ESTIMATES									
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)	
PRIMARY FACILITIES								14,066	
ELECTRONIC RESEARCH AND ENGINEERING (317-315)					SM	1,021	12,141	(12,396)	
ICD 705 PREMIUM					LS			(1,420)	
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS					LS			(250)	
SUPPORTING FACILITIES								6,654	
COMMUNICATIONS					LS			(3,680)	
GENERATOR					KW	750	1,140	(855)	
ROADS, SIDEWALKS, AND PARKING					LS			(460)	
SITE IMPROVEMENTS					LS			(968)	
UTILITIES					LS			(221)	
PRIVATIZED UTILITIES SERVICE AND CONNECTION					LS			(470)	
SUBTOTAL								20,720	
CONTINGENCY (5.00%)								1,036	
TOTAL CONTRACT COST								21,756	
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)								1,414	
TOTAL REQUEST								23,170	
TOTAL REQUEST (ROUNDED)								23,000	
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(1,150)	
10. DESCRIPTION OF PROPOSED CONSTRUCTION									
<p>Construct a multi-level secure environment utilizing conventional design and construction methods to accommodate the mission of the facility. Facility will consist of a concrete foundation, split faced concrete block over a structural steel frame and sloped standing seam metal roof. This facility will provide multiple laboratory and administrative spaces to conduct hardware and software research and development, testing, evaluation and validation of Air Force Nuclear Weapons Center weapons systems. This facility must be constructed to comply with Intelligence Community Directive 705 criteria and standards. The facility will include a 750 KW generator to support the secure space and mission of this facility. The generator is authorized by Air Force Manual 32-1062 and was approved by the Air Force Civil Engineer Center. The project will include all utilities, site improvements, parking, fire detection and protection, secure communications, landscaping, emergency generator capabilities, and all necessary supporting work for a complete and usable facility. Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/ force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 30 Tons</p>									
11. REQ:		1,021 SM	ADQT:		0		SUBSTD:		0

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE FLORIDA		4. PROJECT TITLE LRSO HARDWARE SOFTWARE DEVELOPMENT TEST, CTC	
5. PROGRAM ELEMENT 64932F	6. CATEGORY CODE 317-315	7. PROJECT NUMBER FTFA213201	8. PROJECT COST (\$000) Auth: 0 Appr: 8,400
PROJECT:			
LRSO Hardware Software Development Test Facility			
REQUIREMENT:			
<p>Construct a facility for Air Force Nuclear Weapons Center and Air Force Global Strike Command in support of advanced programs hardware and software development, test and evaluation. This laboratory is essential to providing hardware validation and software certification for Air Force Nuclear Weapons Center advanced subsystems for immediate and future fielding to the warfighter. This integration and technology maturation support is critical to fielding advanced programs for national security and Assistant Secretary of the Air Force/Acquisition, Technology, and Logistics priority programs. This facility will be designed to support 24-hour operations when required. The laboratory facility must be radio frequency shielded, providing no less than 85 decibels radio frequency attenuation across the frequency spectrum from 10 kHz to 40 GHz (i.e., the laboratory facility must be a zero potential enclosure or Faraday cage). Additionally, to meet the strict 24-hour operations required in the technical specifications for construction and management of secured facilities, the facility must have an adequately sized back-up generator provided. This is not a tenant or supported service requirement.</p>			
CURRENT SITUATION:			
<p>The existing support areas for this new mission do not exist but must be available by Fiscal Year 2027 to support Air Force Nuclear Weapons Center hardware/software requirements. This project directly supports Air Force Global Strike Command's mission to equip and provide combat ready forces and strategic deterrence in support of national security strategies. Other options have been considered through the 96th Civil Engineer Group, but no other suitable facilities are available for renovation, and Eglin Air Force Base as a whole has a space deficit of over 350k square feet. Without constructing this facility, the Air Force Nuclear Weapons Center will not be able to support national security directives in a timely manner.</p>			
IMPACT IF NOT PROVIDED:			
<p>In Fiscal Year 2026-2027, the Air Force Nuclear Weapons Center will be tasked to provide advanced hardware/software in support of Initial Operational Test & Evaluation activities conducted by the Air Force Operational Test and Evaluation Center. After Air Force Nuclear Weapons Center Initial Operational capability, this advanced hardware/software support will continue for Air Force Global Strike Command combat forces. The Air Force Nuclear Weapons Center at Eglin Air Force Base is at full capacity in its current facility. Without additional infrastructure, timely support for advanced subsystems hardware/software development, test and evaluation will be jeopardized and will incur significant costs in both time and money in order to support Initial Operational Test & Evaluation and fielded warfighter requirements. Until this facility is completed, the Air Force Nuclear Weapons Center will be forced to utilize contractor facilities for advanced subsystem software development, test and validation. The lack of infrastructure and the forced requirement for alternate site development,</p>			

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE FLORIDA			4. PROJECT TITLE LRSO HARDWARE SOFTWARE DEVELOPMENT TEST, CTC		
5. PROGRAM ELEMENT 64932F		6. CATEGORY CODE 317-315	7. PROJECT NUMBER FTFA213201	8. PROJECT COST (\$000) Auth: 0 Appr: 8,400	

test and validation will prevent the Air Force Nuclear Weapons Center from delivering capabilities to Air Force Global Strike Command and its warfighters. This directly impacts the ability of combat aircrews to employ our nation's forces in support of National Directives. If additional infrastructure is not built, Air Force Global Strike Command and its combat forces will not be postured to provide strategic deterrence in support of the nation's security, nor will Air Force Global Strike Command be postured to fulfill the Chief of Staff of the Air Force's Vision 2030 for advanced programs.

ADDITIONAL:

This project meets the criteria/scope in Department of the Air Force Manual 32-1084, Standard Facility Requirements. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New construction is the only viable option to meet this requirement. An economic analysis waiver was completed and approved. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from United States Army Corps of Engineers. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. Supporting facilities exceed 25% of the Primary Facility total due the lack of communications infrastructure in the project location, the mission interior and exterior communications requirement, and the emergency generator to sustain testing. This project was included in the Fiscal Year 2024 Future Years Defense Plan in Fiscal Year 2025. The construction growth offset for this requirement is 10,990 square feet.

96th Test Wing Base Civil Engineer: (850) 882-2876

ELECTRIC RESEARCH AND ENGINEERING: 1,021 SM = 10,990 Square Feet

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 Air Force requirements.

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE FLORIDA		4. PROJECT TITLE LRSO HARDWARE SOFTWARE DEVELOPMENT TEST, CTC
5. PROGRAM ELEMENT 64932F	6. CATEGORY CODE 317-315	7. PROJECT NUMBER FTFA213201
8. PROJECT COST (\$000) Auth: 0 Appr: 8,400		
12. SUPPLEMENTAL DATA:		
a. Estimated Design Data:		
(1) Status:		
(a) Type of Design		Design-Bid-Build
(b) Date Design Started		01-NOV-22
(c) Parametric Cost Estimating Used to Develop Costs		YES
(d) Percent Complete as of 01 JAN 2024		95%
(e) Date 35% Designed		01-DEC-22
(f) Date Design Complete		01-FEB-24
(g) Energy Study/Life-cycle analysis was performed		YES
(2) Basis:		
(a) Standard or Definitive Design		NO
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)		
(a) Production of Plans and Specifications		876
(b) All Other Design Costs		438
(c) Total		1,314
(d) Contract		1,095
(e) In-house		219
(4) Construction Contract Award		2025-APR
(5) Construction Start		2025-MAY
(6) Construction Completion		2027-APR
b. Equipment associated with this project provided from other appropriations:		
<u>EQUIPMENT NOMENCLATURE</u>	<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>
<u>COST(\$000)</u>		
FURNITURE, FIXTURES & EQUIPMENT	3080	2027
		1,150
c. Title, Authorization, and Appropriation Summary:		
FY25 Budget Request is to fund a Cost to Complete for this prior authorized and appropriated project		
	Authorization \$(000)	Auth of Approp \$(000)
		Appropriation \$(000)
FY2024 Request	14,600	14,600
FY2025 Request	0	8,400
Total	14,600	23,000
A 10 USC 2853 notification will be submitted to support the increase in authorization.		

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE, GEORGIA					4. COMMAND AIR FORCE MATERIEL COMMAND			5. AREA CONSTRUCTION COST INDEX 0.84			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30 SEP 23		1,669	6,285	15,931	0	13	0	2	2	78	23,980
b. END FY		1,719	6,474	17,992	0	13	0	2	2	78	26,280
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										6,936	
b. INVENTORY TOTAL AS OF 30 SEP 23										33,918,449.00	
c. AUTHORIZATION NOT YET IN INVENTORY										115,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										0.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										849,500.00	
h. GRAND TOTAL										34,882,949.00	
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				
141-454	Battle Management Combined Operations Complex, Inc		7,897 SM		64,000	03/22	06/23				
9. FUTURE PROJECTS 141-454 Battle Management Combined Operations Complex, Inc (7,897 SM/\$16M)											
10. MISSION OR MAJOR FUNCTIONS Robins Air Force Base is the home to 54 mission partners, covering five major commands and three wings. It is the largest single site industrial complex in Georgia. Major units include Headquarters Air Force Reserve Command, the Warner Robins Air Logistics Complex, 116th Air Control Wing, 461st Air Control Wing, 78th Air Base Wing, 5th Combat Communications Group and the 638th Supply Chain Management Group. The Warner Robins Air Logistics Complex is responsible for logistics management, support, and depot-level maintenance of systems including F-15, C-130, C-5, C-141, and U-2 aircraft, helicopters, missiles and remotely piloted vehicles; an air base wing; an air control wing; HQ Air Force Reserve Command; an Air Mobility Command air refueling group with KC-135 aircraft; an ACC combat communications group; a special operations flight with EC-137D aircraft; an Air National Guard bomb wing with B-1B aircraft; and an Air Force recruiting group.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024			
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE GEORGIA			4. PROJECT TITLE BATTLE MANAGEMENT COMBINED OPERATIONS COMPLEX, INC					
5. PROGRAM ELEMENT 27412F		6. CATEGORY CODE 141-454	7. PROJECT NUMBER UHHZ210600		8. PROJECT COST (\$000) Auth: 0 Appr: 64,000			
9. COST ESTIMATES								
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES								85,058
SPECIAL OPERATIONS (141-454)					SM	7,897	9,878	(78,007)
ICD 705 PREMIUM					LS			(4,977)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS					LS			(2,074)
SUPPORTING FACILITIES								17,573
UTILITIES					LS			(5,870)
ROADS, SIDEWALKS, AND PARKING					LS			(799)
SITE IMPROVEMENTS					LS			(764)
COMMUNICATIONS					LS			(172)
GENERATOR					kW	5,400	1,846	(9,968)
SUBTOTAL								102,631
CONTINGENCY (5.00%)								5,132
TOTAL CONTRACT COST								107,763
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)								7,005
TOTAL REQUEST								114,768
TOTAL REQUEST (ROUNDED)								115,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(4,500)
10. DESCRIPTION OF PROPOSED CONSTRUCTION								
<p>Construct a Battle Management Control Squadron KINGPIN operations center, a Group Headquarters suite for Spectrum Warfare Group to include space for three squadrons, and squadron operations facility for the E-11A Battlefield Airborne Communications Node weapons system using conventional design and construction methods. Construction will include reinforced concrete slabs and foundation systems, steel framed structures, masonry block exterior walls, and sloped standing seam metal roofing. The facility space will include, but is not limited to, Tactical Operations Center, Rapid Deployable Payload Control Element staging and storage, Maintenance Operations Center, hardware and software testing activities, and training and academic space with storage. The majority of interior space will be controlled area and must be constructed to comply with Intelligence Community Directive 705 criteria. The project will include all necessary utilities, site improvements, pavements, communications support, interior and exterior infrastructure, and all necessary supporting work for a complete and usable facility, to include controlled space and mission critical power system redundancies. A standby generator is authorized in accordance with Air Force Manual 32-1062 for these mission sets. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/ force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 1,020 Tons</p>								

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE GEORGIA			4. PROJECT TITLE BATTLE MANAGEMENT COMBINED OPERATIONS COMPLEX, INC		
5. PROGRAM ELEMENT 27412F		6. CATEGORY CODE 141-454	7. PROJECT NUMBER UHHZ210600	8. PROJECT COST (\$000) Auth: 0 Appr: 64,000	
11. REQ: 7,897 SM		ADQT: 0	SUBSTD: 0		
<p>PROJECT: Construct a Battle Management Combined Operations Complex</p> <p>REQUIREMENT: This project constructs an operation complex for the Battle Management Control Squadron KINGPIN, 950th Spectrum Warfare Group (aligned under 350th Spectrum Warfare Wing at Eglin AFB), and E-11A Battlefield Airborne Communications Node mission sets as well as the support space that houses critical mission equipment for those weapons systems. This facility requirement directly enables proper execution of Robins AFB's mission transformation to support the National Defense Strategy due to the ongoing Joint Surveillance Target Attack Radar System E-8C weapons system divestiture. In addition to operations activities, aircraft and mission equipment maintenance activities will be supported from this facility. This facility will include, but is not limited to, Command sections, administrative space, mission planning, mission brief and debrief, orbit rooms, operations controllers workstations, weapons and tactics, communications, security, computer server farms, team conference rooms, and an auditorium suitable for large classified briefings. This project supports Air Combat Command tenant units, and is a United States Central Command supported service requirement.</p> <p>CURRENT SITUATION: With the E-8C Joint Surveillance Target Attack Radar System mission slated to divest no earlier than 2027, and with existing facilities in the 116th Air Control Wing cantonment area, there is no facility space that can be converted to support the incoming mission sets, or the associated personnel or equipment. This is a new facility requirement to support all three incoming active duty-led new mission sets programmed for bed-down at Robins AFB. There are no facilities owned by 78th Air Base Wing that meet this requirement, nor are there existing facilities that can be modified to meet the requirement. E-8C operations are currently ongoing in and around the 116th Air Control Wing ramp, and all Joint Surveillance Target Attack Radar System-related facilities cannot support the bed-downs for KINGPIN, Spectrum Warfare Group, or E-11A Battlefield Airborne Communications Node, even subsequent to E-8C divestment.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, Robins AFB will not have the capability to enable the 950th Spectrum Warfare Group, and by extension its parent 350th Spectrum Warfare Wing at Eglin AFB, to perform electronic warfare assessment and reprogramming in support of Multi-Domain Combat Shield, Air Force Special Operations Command and Air Mobility Command-sponsored Commando Shield, and USAF fleet-wide 5th-generation aircraft. Additionally, both the Battle Management Control Squadron Kingpin and E-11A Battlefield Airborne Communications Node missions will be unable to conduct distributed Command and Control functions across multiple Areas of Responsibility in support of Multi-Domain operations. Lastly, the Battlefield Airborne Communications Node group specifically will be unable to support Command and Control air-to-air and air-to-ground data and</p>					

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE GEORGIA		4. PROJECT TITLE BATTLE MANAGEMENT COMBINED OPERATIONS COMPLEX, INC		
5. PROGRAM ELEMENT 27412F	6. CATEGORY CODE 141-454	7. PROJECT NUMBER UHHZ210600	8. PROJECT COST (\$000) Auth: 0 Appr: 64,000	
<p>communications bridging, range extension, and waveform translation to the Combatant Commander in the area of responsibility to enhance tactical data-link operations across disparate networks for joint and coalition warfighters.</p> <p>ADDITIONAL:</p> <p>This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements, and as detailed at the Whole Building Design Guide website. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from United States Army Corps of Engineers. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New construction is the only viable option to meet this requirement. An Economic Analysis was approved. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. This project was included in the Fiscal Year 2023 Future Years Defense Plan in Fiscal Year 2024. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>78 Wing Base Civil Engineer: (478) 926-3093 SPECIAL OPERATIONS: 7,897 SM = 85,003 Square Feet</p> <p>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 Air Force requirements.</p>				

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE GEORGIA			4. PROJECT TITLE BATTLE MANAGEMENT COMBINED OPERATIONS COMPLEX, INC		
5. PROGRAM ELEMENT 27412F		6. CATEGORY CODE 141-454	7. PROJECT NUMBER UHHZ210600	8. PROJECT COST (\$000) Auth: 0 Appr: 64,000	
12. SUPPLEMENTAL DATA:					
a. Estimated Design Data:					
(1) Status:					
(a) Type of Design				Design-Bid-Build	
(b) Date Design Started				01-MAR-22	
(c) Parametric Cost Estimating Used to Develop Costs				YES	
(d) Percent Complete as of 01 JAN 2024				65%	
(e) Date 35% Designed				01-JUL-22	
(f) Date Design Complete				01-JUN-23	
(g) Energy Study/Life-cycle analysis was performed				YES	
(2) Basis:					
(a) Standard or Definitive Design				NO	
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)					
(a) Production of Plans and Specifications				4,200	
(b) All Other Design Costs				3,300	
(c) Total				7,500	
(d) Contract				7,000	
(e) In-house				500	
(4) Construction Contract Award				2024-APR	
(5) Construction Start				2024-APR	
(6) Construction Completion				2027-MAR	
b. Equipment associated with this project provided from other appropriations:					
<u>EQUIPMENT NOMENCLATURE</u>		<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>	
FURNITURE FIXTURES & EQUIPMENT		3080	2026	2,500	
MISSION EQUIPMENT & COMMUNICAT		3080	2026	2,000	

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE GEORGIA			4. PROJECT TITLE BATTLE MANAGEMENT COMBINED OPERATIONS COMPLEX, INC		
5. PROGRAM ELEMENT 27412F		6. CATEGORY CODE 141-454	7. PROJECT NUMBER UHHZ210600	8. PROJECT COST (\$000) Auth: 0 Appr: 64,000	

12. SUPPLEMENTAL DATA (CONTINUED..)

c. Authorization and Appropriation Summary:

	Authorization \$(000)	Auth of Approp \$(000)	Appropriation \$(000)
FY2024 Budget Request	115,000	35,000	35,000
FY2025 Budget Request	0	64,000	64,000
Future Request	0	16,000	16,000
Total	115,000		115,000

Spend Plan

CAO:

05-Jun-23

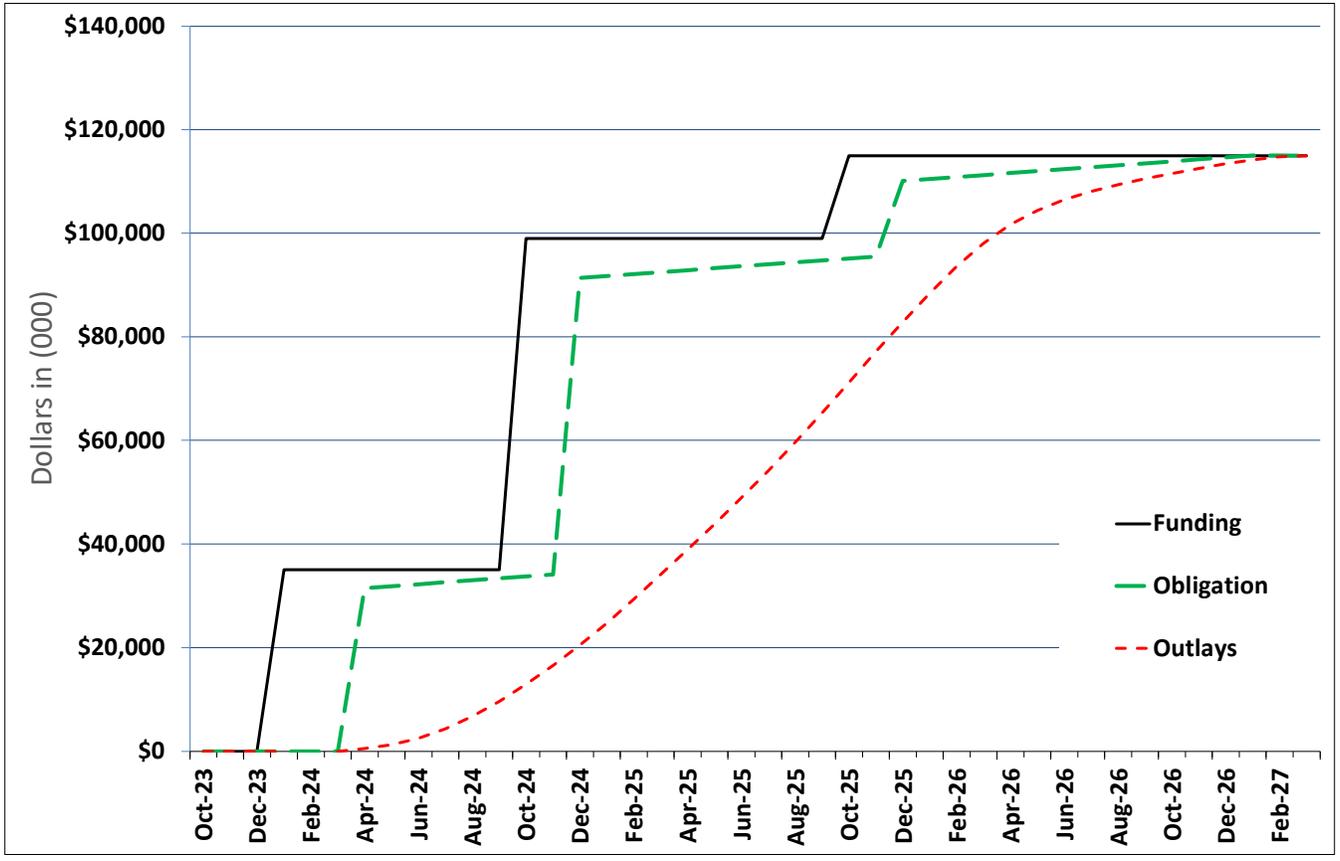
Project Title:	Battle Management Combined Operations Complex
Installation:	Robins AFB, GA
Program Year	2024
Project #	UHHZ180037

All Cost in thousands

Chart Begin Oct-23	FUNDING (note 1)		OBLIGATION (note 2-3)		OUTLAYS (note 4-5)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-23			-	-	-	-
Nov-23			-	-	-	-
Dec-23			-	-	-	-
Jan-24	35,000	35,000	-	-	-	-
Feb-24	-	35,000	-	-	-	-
Mar-24	-	35,000	-	-	-	-
Apr-24	-	35,000	31,467	31,467	500	500
May-24	-	35,000	378	31,845	746	1,246
Jun-24	-	35,000	378	32,223	1,200	2,446
Jul-24	-	35,000	378	32,601	1,866	4,312
Aug-24	-	35,000	378	32,979	2,400	6,712
Sep-24	-	35,000	378	33,357	2,900	9,612
Oct-24	64,000	99,000	378	33,735	3,300	12,912
Nov-24	-	99,000	378	34,113	3,614	16,526
Dec-24	-	99,000	57,226	91,339	3,958	20,484
Jan-25	-	99,000	378	91,717	4,214	24,698
Feb-25	-	99,000	378	92,095	4,602	29,300
Mar-25	-	99,000	378	92,473	4,809	34,109
Apr-25	-	99,000	378	92,851	4,809	38,918
May-25	-	99,000	378	93,229	4,911	43,829
Jun-25	-	99,000	378	93,607	5,064	48,893
Jul-25	-	99,000	378	93,984	5,258	54,151
Aug-25	-	99,000	378	94,362	5,474	59,625
Sep-25	-	99,000	378	94,740	5,694	65,319
Oct-25	16,000	115,000	378	95,118	5,807	71,126
Nov-25	-	115,000	378	95,496	6,007	77,133
Dec-25	-	115,000	14,590	110,086	5,694	82,827
Jan-26	-	115,000	378	110,464	5,600	88,427
Feb-26	-	115,000	378	110,842	5,158	93,585
Mar-26	-	115,000	378	111,220	4,464	98,049
Apr-26	-	115,000	378	111,598	3,611	101,660
May-26	-	115,000	378	111,976	2,719	104,379
Jun-26	-	115,000	378	112,354	2,109	106,488
Jul-26	-	115,000	378	112,732	1,558	108,046
Aug-26	-	115,000	378	113,110	1,300	109,346
Sep-26	-	115,000	378	113,488	1,158	110,504
Oct-26	-	115,000	378	113,866	1,014	111,518
Nov-26	-	115,000	378	114,244	965	112,483
Dec-26	-	115,000	378	114,622	933	113,416
Jan-27	-	115,000	378	115,000	750	114,166
Feb-27	-	115,000	-	115,000	584	114,750
Mar-27	-	115,000	-	115,000	250	115,000

Notes	
Note 1:	Assumes initial appropriation is enacted by Congress Jan FY 2024.
Note 2:	Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.
Note 3:	Assumes ALL project funds (contract, SIOH, contingency, etc) are obligated NLT 6 months prior to project end
Note 4:	Assumes contract award in APR 2024 and contract completion MAR 27; duration 36 months.
Note 5:	Assumes Agent will retain 1% of project obligations for a final payment

Battle Management Combined Operations Complex, Robins AFB, GA



1. COMPONENT AIR FORCE		FY <u>2025</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION MOUNTAIN HOME AIR FORCE BASE, IDAHO				4. COMMAND AIR COMBAT COMMAND			5. AREA CONSTRUCTION COST INDEX 1.15				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30 SEP 23		391	3,023	348	0	0	0	0	0	28	3,790
b. END FY		391	3,023	351	0	0	0	0	0	29	3,794
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										134,564	
b. INVENTORY TOTAL AS OF 30 SEP 23										4,200,000.00	
c. AUTHORIZATION NOT YET IN INVENTORY										0.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										40,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										31,000.00	
h. GRAND TOTAL										4,271,000.00	
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				
740-884	CHILD DEVELOPMENT CENTER		3,414 SM		40,000	01/23	07/24				
9. FUTURE PROJECTS N/A											
10. MISSION OR MAJ OR FUNCTIONS Mountain Home AFB is the home of the 366th Fighter Wing, which is under the Air Combat Command. The mission of the 366th Fighter Wing is to develop and deploy combat ready Airmen, maintain Gunfighters, and to protect and enhance our resources. The 366th Fighter Wing includes more than fifty F-15E Strike Eagle Aircraft.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024						
3. INSTALLATION AND LOCATION MOUNTAIN HOME AF BASE IDAHO			4. PROJECT TITLE CHILD DEVELOPMENT CENTER								
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 740-884	7. PROJECT NUMBER QYZH073004		8. PROJECT COST (\$000) 40,000						
9. COST ESTIMATES											
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)			
PRIMARY FACILITIES								26,664			
CHILD DEVELOPMENT CENTER (740-884)					SM	3,414	7,737	(26,414)			
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS					LS			(250)			
SUPPORTING FACILITIES								8,223			
UTILITIES					LS			(1,875)			
ROADS, SIDEWALKS, AND PARKING					LS			(2,154)			
SITE IMPROVEMENTS					LS			(2,796)			
COMMUNICATIONS					LS			(1,332)			
DEMOLITION					SM	1,895	35	(66)			
SUBTOTAL								34,887			
CONTINGENCY (5.00%)								1,744			
TOTAL CONTRACT COST								36,631			
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)								2,381			
DESIGN/BUILD - DESIGN COST (4.00% OF SUBTOTAL)								1,395			
TOTAL REQUEST								40,407			
TOTAL REQUEST (ROUNDED)								40,000			
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(1,862)			
10. DESCRIPTION OF PROPOSED CONSTRUCTION											
<p>Construct a large child development center to include infant, pre-toddler, toddler, and preschooler child activity areas, administrative and staff space, and facility support spaces: lobby, restrooms, storage rooms, and kitchen. The building systems include laminated wood structural beams, concrete foundation, concrete floor slabs, masonry walls, metal framed roof system, standing seam metal roof, information systems, fire protection and alarm systems, electronic access control, cybersecurity measures, and energy monitoring control systems connection. The project will include site development, fencing, utilities and connections, exterior lighting, paving, parking, sidewalks, storm drainage, communication, landscaping, signage, and other supporting work necessary to make a complete and usable facility. Provide connection to streets and access roads, earthwork, grading, concrete pads, electrical and communication utilities. The project will demolish building 2623 (1,034 SM) and 2630 (861 SM) (Total: 1,895 Square Meters). Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 175 Tons</p>											
11. REQ:		3,414 SM		ADQT:		0		SUBSTD:		1,895 SM	

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION MOUNTAIN HOME AF BASE IDAHO		4. PROJECT TITLE CHILD DEVELOPMENT CENTER	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 740-884	7. PROJECT NUMBER QYZH073004	8. PROJECT COST (\$000) 40,000
PROJECT: Child Development Center			
REQUIREMENT: Mountain Home Air Force Base is home to the 366th Fighter Wing that reports to Air Combat Command. Mountain Home Air Force Base mission is to enhance readiness, take care of airmen and their families, build trust, and develop leaders. The project is required to consolidate the current two (2) child development centers into a single child development center to support the mission, community, as well as accommodate current capacity and projected future base population. The consolidation will decrease the number of personnel needed to staff the existing two buildings and increase the total capacity of the facility serving personnel with daycare eligible aged children. The new facility shall support 242 children. The child development center is required to provide a safe and healthy environment that includes early childhood development and preschool programs for dependents of active-duty military personnel, DOD civilian personnel, and reservists on active duty or during inactive duty training. The child development center includes four categories of program areas: core administration, staff support, facility support, and child activity areas. This is not a tenant or supported service requirement.			
CURRENT SITUATION: Mountain Home Air Force Base currently operates two (2) existing child development centers, buildings 2623 and 2630, which currently serves 156 children. The required capacity is 242 children, additional space is required to support another 86 children. The use of temporary facilities is not optional due to strict fire life safety codes associated with childcare. The on-base childcare is a critical element to supplement lack of affordable, accredited facilities within the immediate local area.			
IMPACT IF NOT PROVIDED: The child development center's capacity will subsequently fall into a deficit resulting in long-term negative impact on mission accomplishment throughout the organization. The childcare at Mountain Home Air Force Base will become substandard. The consequences of not providing accommodations include additional cost, time, and worries for service members and civilian employees.			
ADDITIONAL: This project meets applicable criteria/scope specified in the Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, and shall employ the standard facility design Air Force Child Development Center Facilities Criteria, FC 4-740-14F. All reasonable alternatives were considered during the development of this project to include: add/alter, renovation and new construction. New construction is the only viable option to meet this requirement. An economic analysis is complete and being routed for approval. Sustainable principles, to include life-cycle cost effective practices, will be integrated in the design, development and construction of the project in accordance with the Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost			

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION MOUNTAIN HOME AF BASE IDAHO	4. PROJECT TITLE CHILD DEVELOPMENT CENTER
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 740-884	7. PROJECT NUMBER QYZH073004	8. PROJECT COST (\$000) 40,000
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analysis for energy consuming systems, renewable energy generating systems, or when life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. This project does not fall within or partly within the 100-year flood plain. This project was not included in the Fiscal Year 2024 future years' defense plan. Supporting facility costs exceed 25% of primary facility cost due to development of undisturbed land plat, new road, and new utility mains to the site. The construction growth offset for this requirement is 16,350 square feet. This project will be the Air Force's mass timber pilot project.

366th Civil Engineer Squadron, Base Civil Engineer: (208) 828-2803.

CHILD DEVELOPMENT CENTER: 3,414 Square Meter = 36,748 Square Feet;
DEMOLITION: 1,895 Square Meter = 20,398 Square Feet.

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 Air Force requirements.

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION MOUNTAIN HOME AF BASE IDAHO	4. PROJECT TITLE CHILD DEVELOPMENT CENTER
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 740-884	7. PROJECT NUMBER QYZH073004	8. PROJECT COST (\$000) 40,000
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12. SUPPLEMENTAL DATA:

- a. Estimated Design Data:
- (1) Status:
 - (a) Type of Design Design-Build
 - (b) Date Design Started 01-JAN-23
 - (c) Parametric Cost Estimating Used to Develop Costs YES
 - (d) Percent Complete as of 01 JAN 2024 35%
 - (e) Date 35% Designed 01-JUN-23
 - (f) Date Design Complete 01-JUL-24
 - (g) Energy Study/Life-cycle analysis was performed YES
 - (2) Basis:
 - (a) Standard or Definitive Design YES
 - (b) Where Design Was Most Recently Used Tyndall Air Force Base
 - (3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)
 - (a) Production of Plans and Specifications 1,013
 - (b) All Other Design Costs 1,200
 - (c) Total 2,213
 - (d) Contract 1,613
 - (e) In-house 600
 - (4) Construction Contract Award 2025-FEB
 - (5) Construction Start 2025-JUL
 - (6) Construction Completion 2027-JUL

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

<u>EQUIPMENT NOMENCLATURE</u>	<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>
Furniture, Fixtures, and Equip	3080	2026	503
Communications Equipment	3080	2026	352
Playground Equipment	3080	2026	1,007

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE MASSACHUSETTS				4. COMMAND AIR FORCE MATERIAL COMMAND			5. AREA CONSTRUCTION COST INDEX 1.25				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30 SEP 23		239	29	888	0	0	42	239	32	926	2,395
b. END FY		239	29	888	0	0	42	239	32	926	2,395
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										846	
b. INVENTORY TOTAL AS OF 30 SEP 23										2,804,028.00	
c. AUTHORIZATION NOT YET IN INVENTORY										203,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										315,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										139,000.00	
h. GRAND TOTAL										3,461,028.00	
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	
317-315	MIT-LL/ENGINEERING AND PROTOTYPE FAC, INC			26,898 SM		76,000		08/21		05/24	
9. FUTURE PROJECTS 317-315 MIT-LL/Engineering and Prototype Fac, Inc (26,898 SM / \$239,000)											
10. MISSION OR MAJ OR FUNCTIONS The Air Force Life Cycle Management Center (AFLCMC) at Hanscom AFB is one of six centers reporting to the Air Force Materiel Command. AFLCMC is charged with life cycle management of Air Force weapon systems from their inception to retirement. The AFLCMC mission is to support qualities of war-winning. Hanscom is also home to three Air Force Program Executive Offices.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE MASSACHUSETTS			4. PROJECT TITLE MIT-LL/ENGINEERING AND PROTOTYPE FAC, INC			
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 317-315	7. PROJECT NUMBER MXRD153007		8. PROJECT COST (\$000) Auth:315,000 Appr:76,000	
9. COST ESTIMATES						
ITEM		UM	QUANTITY	UNIT COST	COST(\$000)	
PRIMARY FACILITIES					231,297	
ELECTRONIC RESEARCH AND ENGINEERING (317-315)		SM	26,898	7,750	(208,460)	
BUILDING HOUSING MISCELLANEOUS UTILITY PLA (891-024)		SM	1,027	19,671	(20,202)	
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(2,635)	
SUPPORTING FACILITIES					50,672	
UTILITIES		LS			(7,200)	
SITE PREPARATION		LS			(17,400)	
SITE IMPROVEMENTS		LS			(13,200)	
DEMOLITION		SM	5,374	2,358	(12,672)	
GENERATOR		KW			(200)	
SUBTOTAL					281,969	
CONTINGENCY (5.00%)					14,098	
TOTAL CONTRACT COST					296,067	
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)					19,244	
TOTAL REQUEST					315,311	
TOTAL REQUEST (ROUNDED)					315,000	
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(30,000)	
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
<p>Construct a new Engineering Prototype Facility to include electronics laboratory, clean rooms, and high bay research space. This facility will be a multi-story structure consisting of reinforced concrete foundations, steel or reinforced concrete superstructure, masonry walls, energy efficient roofing, and associated building systems. Construct Central Utility Plant adjacent to the primary facility. Site improvements will include access roads, parking, sidewalks, utilities, landscaping, life/safety generator, demolition of facilities within the proposed facility footprint, and all other necessary improvements. The project will demolish buildings 1122 (467 SM), 1123 (1,542 SM), 1124 (798 SM), 1126 (527 SM), 1127 (329 SM) and 1128 (1,711 SM), (Total: 5,374 SM). The user is responsible for the development and certification of the security plan and is responsible for all hardware and equipment related to any space with limited access. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/ force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 1,600 Tons</p>						
11. REQ: 26,898 SM		ADQT: 0		SUBSTD: 5,374 SM		
PROJECT:						
Construct a new Engineering Prototype Facility to include electronics laboratory, clean rooms, and high bay research space.						

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE MASSACHUSETTS			4. PROJECT TITLE MIT-LL/ENGINEERING AND PROTOTYPE FAC, INC		
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 317-315	7. PROJECT NUMBER MXRD153007	8. PROJECT COST (\$000) Auth:315,000 Appr:76,000	

REQUIREMENT:

This project will construct the Engineering Prototype Facility in direct support of the Massachusetts Institute of Technology Lincoln Laboratory mission and will include the following technical spaces: Integration and Test Clean Rooms, High Bay Assembly I Environmental Test, General Assembly Labs, Technical Support Facilities, Rapid Prototyping / Autonomous Systems, Machine Shop, Mechanical Inspection, Polymer Lab, Electronic Assembly & Inspection, Bonded Stores I Receiving / Raw Stock, Materials & Dynamic Test. This is not a tenant or supported service requirement.

CURRENT SITUATION:

The majority of the buildings that comprise the Massachusetts Institute of Technology Lincoln Laboratory campus were constructed in the early-mid 1950's, including the critical laboratories being replaced by this project. These existing buildings are functionally obsolete and do not meet current building codes or industry standards for high technology facilities. In 2008, Massachusetts Institute of Technology Lincoln Laboratory hired Facility Engineering Associates to conduct an in depth assessment of all facilities in use by Massachusetts Institute of Technology Lincoln Laboratory. The results of this study indicate that 45% of the space utilized by Massachusetts Institute of Technology Lincoln Laboratory is in below average or poor condition and has high risk for failure. In 2012, 82% of the Air Force facilities utilized by Massachusetts Institute of Technology Lincoln Laboratory were considered sub-standard (Condition Code 2 - Usable Class B). During the early 2000s, Massachusetts Institute of Technology Lincoln Laboratory was typically executing two space payload programs in parallel. Over the past two years, Massachusetts Institute of Technology Lincoln Laboratory has executed six different yet concurrent space payload efforts. Indications are that the number of space payload programs may grow as no other Department of Defense facilities are capable of performing these types of programs. One of these programs alone is large enough to use all of the existing cleanroom capacity. With multiple programs and activities ongoing in a cleanroom designed for one program, each program is restricted in the number of personnel it can have in the cleanroom. Overall, Massachusetts Institute of Technology Lincoln Laboratory experiences delays of up to 4 months per program and a 20% reduction in productivity as a result of overcrowding and facility limitations. Massachusetts Institute of Technology Lincoln Laboratory is also the Department of Defense's only Federally Funded Research and Development Center with the capability of providing prototyping. The Laboratory's rapid prototyping work has grown over 500% in the past few years. The growth in program execution has put considerable pressure on Massachusetts Institute of Technology Lincoln Laboratory facilities. In 2009, a cleanroom was flooded causing damage to a \$25M system being developed for the Department of Defense. The damage to the system cost \$250K and resulted in a 2 month schedule delay.

IMPACT IF NOT PROVIDED:

Research programs will be further impacted by critical building infrastructure

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE MASSACHUSETTS		4. PROJECT TITLE MIT-LL/ENGINEERING AND PROTOTYPE FAC, INC	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 317-315	7. PROJECT NUMBER MXRD153007	8. PROJECT COST (\$000) Auth:315,000 Appr:76,000

failures. Additionally, current and future research will continue to be limited by building constraints. Current research space and the building infrastructure to support it will continue to deteriorate rapidly, resulting in increasing cost to the Government and delays to mission critical research. Without this project, repairs will continue to be costly, and will be completed in a piecemeal fashion with little or no improvement to laboratory requirements. Massachusetts Institute of Technology Lincoln Laboratory has the intellectual and personnel resources to deliver program solutions to the Department of Defense; what Massachusetts Institute of Technology Lincoln Laboratory lacks is space and modern facilities. This lack of engineering space delays the start of new programs or new program activities. Projections based on currently known activities indicate that Massachusetts Institute of Technology Lincoln Laboratory's cleanrooms and assembly and integration spaces are fully booked for the next two to three years. As programs move into new phases during which they need to move into a cleanroom, vacuum chamber, or other integration area, they are typically delayed for one to three months while waiting for the current occupants to vacate the facility. These delays can cause additional costs in the range of \$0.5M to \$3M. Finally, because of the age and poor condition of the Laboratory's infrastructure, catastrophic failure is possible, thus risking loss or serious damage to irreplaceable military hardware under development. On any given day, there may be payloads in development with total Government investment of \$100M or more with ancillary ground support and test equipment of comparable value. There have been three flooding events in Laboratory cleanrooms in the last four years. Flooding delayed one major program by two months at a cost of \$2M. In each case, the damage could have easily been more significant.

ADDITIONAL:

It will be determined during the design process if the power supply at Hanscom Air Force Base is dependable making the need for a life/safety generator a non-requirement. The criteria/scope for this program is not specified in Air Force Manual 32-1084, "Facility Requirements". Air Force Manual 32-1084 does not contain sizing criteria for Research Testing Development and Evaluation facilities. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. This facility was sized based on an in depth analysis of the user's mission and requirements performed in February 2014. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. An approved Economic Analysis determined new construction as the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost- effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE MASSACHUSETTS		4. PROJECT TITLE MIT-LL/ENGINEERING AND PROTOTYPE FAC, INC	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 317-315	7. PROJECT NUMBER MXRD153007	8. PROJECT COST (\$000) Auth:315,000 Appr:76,000

Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. This project was included in the Fiscal Year 2024 future years defense plan in Fiscal Year 25. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. The construction growth offset for this requirement is 242,738 square feet.

66th Air Base Group Base Civil Engineer: (781)-225-2999

Electronic Research Engineering Facility: 26,898 SM = 289,528 Square Feet;
 Building Housing Miscellaneous Utility Plant: 1,027 SM = 11,055 Square Feet;
 Demolition: 5,374 SM = 57,845 Square Feet.

JOINT USE CERTIFICATION: Mission Requirements, operational considerations, and location are incompatible with use by other components.

1. COMPONENT	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
AIR FORCE			FEBRUARY 2024
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
HANSCOM AIR FORCE BASE MASSACHUSETTS		MIT-LL/ENGINEERING AND PROTOTYPE FAC, INC	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)
91211F	317-315	MXRD153007	Auth:315,000 Appr:76,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design		Design-Bid-Build	
(b) Date Design Started		01-AUG-21	
(c) Parametric Cost Estimating Used to Develop Costs		YES	
(d) Percent Complete as of 01 JAN 2024		65%	
(e) Date 35% Designed		01-MAY-22	
(f) Date Design Complete		01-MAY-24	
(g) Energy Study/Life-cycle analysis was performed		YES	
(2) Basis:			
(a) Standard or Definitive Design		NO	
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)			
(a) Production of Plans and Specifications		18,900	
(b) All Other Design Costs		9,450	
(c) Total		28,350	
(d) Contract		23,625	
(e) In-house		4,725	
(4) Construction Contract Award		2025-APR	
(5) Construction Start		2025-APR	
(6) Construction Completion		2028-MAR	
b. Equipment associated with this project provided from other appropriations:			
<u>EQUIPMENT NOMENCLATURE</u>	<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>
Equipment and Furnishings	3080	2028	30,000
c. Authorization and Appropriation Summary:			
	Authorization \$(000)	Auth of Approp \$(000)	Appropriation \$(000)
FY2025 Budget Request	315,000	76,000	76,000
Future Request	0	239,000	239,000
Total	315,000		315,000

Spend Plan

CAO: 04-Dec-23

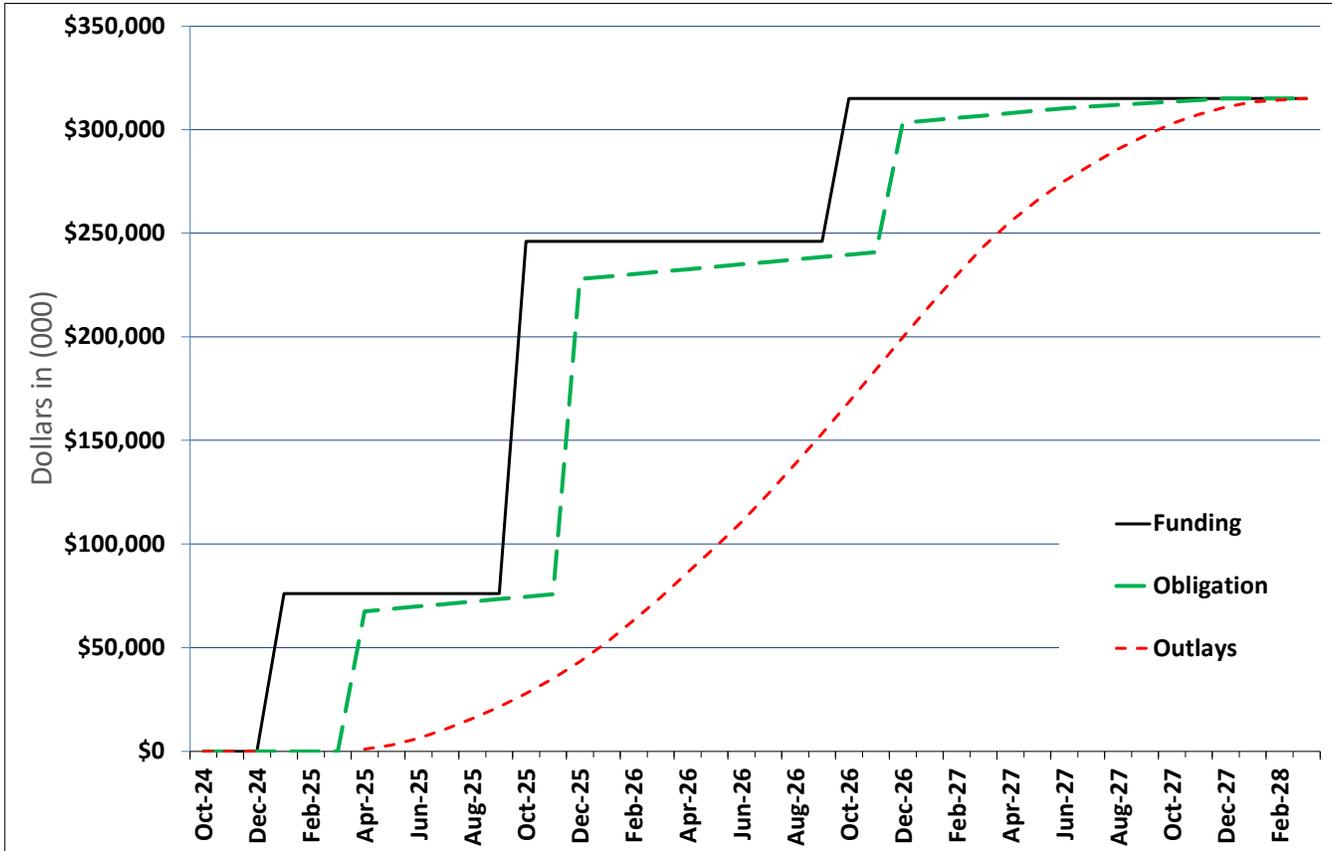
Project Title:	MIT-LL/Engineering and Prototype Fac, Inc
Installation:	Hanscom AFB, MA
Program Year	2025
Project #	MXRD153007

All Cost in thousands

Chart Begin Oct-24	FUNDING (note 1)		OBLIGATION (note 2-3)		OUTLAYS (note 4-5)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-24	-	-	-	-	-	-
Nov-24	-	-	-	-	-	-
Dec-24	-	-	-	-	-	-
Jan-25	76,000	76,000	-	-	-	-
Feb-25	-	76,000	-	-	-	-
Mar-25	-	76,000	-	-	-	-
Apr-25	-	76,000	67,507	67,507	900	900
May-25	-	76,000	1,173	68,680	2,075	2,975
Jun-25	-	76,000	1,173	69,854	3,146	6,121
Jul-25	-	76,000	1,173	71,027	4,543	10,664
Aug-25	-	76,000	1,173	72,201	5,040	15,704
Sep-25	-	76,000	1,173	73,374	5,650	21,354
Oct-25	170,000	246,000	1,173	74,547	6,384	27,738
Nov-25	-	246,000	1,173	75,721	7,246	34,984
Dec-25	-	246,000	152,176	227,897	8,235	43,219
Jan-26	-	246,000	1,173	229,070	9,353	52,572
Feb-26	-	246,000	1,173	230,243	10,553	63,125
Mar-26	-	246,000	1,173	231,416	11,000	74,125
Apr-26	-	246,000	1,173	232,590	12,000	86,125
May-26	-	246,000	1,173	233,763	12,000	98,125
Jun-26	-	246,000	1,173	234,937	12,250	110,375
Jul-26	-	246,000	1,173	236,110	13,913	124,288
Aug-26	-	246,000	1,173	237,283	14,250	138,538
Sep-26	-	246,000	1,173	238,457	14,722	153,260
Oct-26	69,000	315,000	1,173	239,630	15,280	168,540
Nov-26	-	315,000	1,173	240,803	15,567	184,107
Dec-26	-	315,000	62,463	303,266	15,567	199,673
Jan-27	-	315,000	1,173	304,440	15,280	214,954
Feb-27	-	315,000	1,173	305,613	14,722	229,675
Mar-27	-	315,000	1,173	306,786	13,920	243,595
Apr-27	-	315,000	1,173	307,960	12,000	255,595
May-27	-	315,000	1,173	309,133	10,250	265,845
Jun-27	-	315,000	1,173	310,306	9,200	275,045
Jul-27	-	315,000	784	311,090	8,000	283,045
Aug-27	-	315,000	782	311,872	7,500	290,545
Sep-27	-	315,000	782	312,654	6,500	297,045
Oct-27	-	315,000	782	313,436	5,800	302,845
Nov-27	-	315,000	782	314,218	4,500	307,345
Dec-27	-	315,000	782	315,000	3,500	310,845
Jan-28	-	315,000	-	315,000	2,461	313,306
Feb-28	-	315,000	-	315,000	1,000	314,306
Mar-28	-	315,000	-	315,000	694	315,000

Notes	
Note 1:	Assumes initial appropriation is enacted by Congress Jan FY 2024.
Note 2:	Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.
Note 3:	Assumes ALL project funds (contract, SIOH, contingency, etc) are obligated NLT 6 months prior to project end
Note 4	Assumes contract award in APR 2025 and contract completion MAR 2028; duration 36 months.
Note 5	Assumes Agent will retain 1% of project obligations for a final payment

MIT-LL/Engineering and Prototype Fac, Inc, Hanscom AFB, MA



1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION MALMSTROM AIR FORCE BASE, MONTANA				4. COMMAND AIR FORCE GLOBAL STRIKE COMMAND			5. AREA CONSTRUCTION COST INDEX 1.12				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30 SEP 23		847	2,543	622	0	0	0	462	3,053	647	8,174
b. END FY		848	2,548	622	0	0	0	373	2,625	645	7,661
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE								28,838			
b. INVENTORY TOTAL AS OF 30 SEP 23								5,839,193.00			
c. AUTHORIZATION NOT YET IN INVENTORY								245,300.00			
d. AUTHORIZATION REQUESTED IN THIS PROGRAM								20,000.00			
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM								346,893.00			
f. PLANNED IN NEXT THREE PROGRAM YEARS								354,097.00			
g. REMAINING DEFICIENCY								125,338.00			
h. GRAND TOTAL								6,930,821.00			
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				
730-839	GBSD Commercial Entrance Control Facility		385 SM		20,000	06/23	05/24				
215-582	Weapons Storage & Maintenance Fac, Inc		7,510 SM		238,000	05/18	12/21				
9. FUTURE PROJECTS											
215-582 Weapons Storage & Maintenance Fac, Inc (7,510 SM/\$60,000)				141-911 Sentinel Operations Group Facility (TBD/\$53,275)				911-146 Sentinel Land Acquisition, Inc 3 (TBD/\$173,277)			
442-758 Sentinel Operations & Maintenance Complex, Inc (38,858 SM/\$346,893)				911-146 Sentinel Land Acquisition, Inc (TBD/\$43,274)				442-758 Sentinel Operations & Maintenance Complex, Inc (38,858 SM/\$171,107)			
911-146 Sentinel Land Acquisition, Inc (TBD/\$29,318)				149-512 Sentinel Sentinel Maintenance Training Facility (7,246 SM/\$27,552)				911-146 Sentinel Land Acquisition, Inc (TBD/\$29,318)			
442-758 Sentinel Operations & Maintenance Complex, Inc (38,858 SM/\$101,000)				171-618 Sentinel Security Forces Tactics Trainer (TBD/\$27,401)							
10. MISSION OR MAJOR FUNCTIONS											
Malmstrom Air Force Base is home to the 341st Missile Wing of Air Force Global Strike Command and also home to the 819th Red Horse Squadron of Air Combat Command. The mission of the 341st Missile Wing is to defend America with safe, secure, effective nuclear forces and combat-ready Airmen. The 341st Missile Wing operates, maintains and secures 150 Intercontinental Ballistic Missiles positioned across 23,500-square miles of Montana. The wing also operates eight UH-1N Huey helicopters that perform nuclear convoy security and missile site support.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES											
N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024						
3. INSTALLATION AND LOCATION MALMSTROM AIR FORCE BASE MONTANA			4. PROJECT TITLE GBSD COMMERCIAL ENTRANCE CONTROL FACILITY								
5. PROGRAM ELEMENT 11233F		6. CATEGORY CODE 730-839	7. PROJECT NUMBER NZAS033002		8. PROJECT COST (\$000) 20,000						
9. COST ESTIMATES											
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)			
PRIMARY FACILITIES								10,037			
ACCESS CONTROL FACILITY (730-839)					SM	385	10,995	(4,233)			
MECHANICAL SECURITY BARRICADES (872-300)					EA	2	225,000	(450)			
FENCE BOUNDARY (872-245)					LM	400	448	(179)			
ROAD (851-147)					SM	22,700	180	(4,086)			
OVERHEAD PROTECTION (145-921)					SM	191	4,395	(839)			
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS					LS			(250)			
SUPPORTING FACILITIES								7,733			
UTILITIES					LS			(1,451)			
SITE PREPARATION					LS			(455)			
ROADS, SIDEWALKS, AND PARKING					LS			(400)			
SITE IMPROVEMENTS					LS			(1,570)			
COMMUNICATIONS					LS			(2,000)			
DEMOLITION					SM	136	420	(57)			
PASSIVE FORCE PROTECTION MEASURES					LS			(1,800)			
SUBTOTAL								17,770			
CONTINGENCY (5.00%)								889			
TOTAL CONTRACT COST								18,659			
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)								1,213			
TOTAL REQUEST								19,872			
TOTAL REQUEST (ROUNDED)								20,000			
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(453)			
10. DESCRIPTION OF PROPOSED CONSTRUCTION											
<p>This project will construct a commercial entry control facility in support of Sentinel construction activities and future Sentinel mission sustainment. The entry control facility will include a large vehicle inspection building with capability to accommodate two full size interstate tractor-trailer trucks, two lanes for ID check of private operating vehicles, and a pull-off area for vehicle searches. The project will include sufficient pavement for roadways, parking, queuing, and holding for commercial and private operating vehicles, passive and active vehicle barriers. The project also includes a new gate entrance and pavement to replace the existing Ammunition, Arms, and Equipment gate. The project will demolish building 1879 (136 SM) and demolish two existing active vehicle barriers and areas of pavement and utilities. All supporting facilities such as site work, utilities, storm drainage, fencing, pavements, communications, and all other work necessary for a complete and usable facility are included. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 7 Tons</p>											
11. REQ:		385 SM		ADQT:		0		SUBSTD:		136 SM	

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION MALMSTROM AIR FORCE BASE MONTANA		4. PROJECT TITLE GBSD COMMERCIAL ENTRANCE CONTROL FACILITY	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 730-839	7. PROJECT NUMBER NZAS033002	8. PROJECT COST (\$000) 20,000
PROJECT:			
Construct a Large Vehicle Commercial Inspection Facility.			
REQUIREMENT:			
<p>An adequately sized and configured large vehicle inspection station is required for security inspections of all large vehicles in accordance with antiterrorism/force protection measures and standards. Beginning in FY26, the Sentinel program (GBSD) will construct six MILCON projects at Malmstrom Air Force Base, the locations of which will be easily accessible via this new rural Entry Control Facility. Sentinel will add five hundred (500) daily occupants for an Integrated Training Center, Consolidated Maintenance Facility, Security Forces Tactics Trainer, and Missile Handling Complex in addition to an influx of personnel assigned to the Weapons Generation Facility. To accommodate the necessary antiterrorism/force protection for these activities, the scope of work for this project will comprise of an entry control facility with circulation roads, vehicle parking areas, and large vehicle inspection station with support building and over watch with air conditioning and heat. Modifications to the existing public road for safe entry into the facility will also be addressed. The large vehicle inspection station will include oversized doors with height marker for oversized vehicles and in-ground Under Vehicle Surveillance System for two large vehicles (tractor trailers up to 45 tons) and gatehouse supporting the inspection operations attached to large vehicle inspection station. In addition, the new large vehicle inspection station must accommodate the new Vehicle Explosion Detection Systems and an overhead camera system. The project will include provisions for a fire suppression system and storm water drainage including trench drains to remove snow and ice during the winter. Requirements delineated in the Air Force Installation Entry Control Point Facilities Design Guide must be met. This project is in direct support of and a derived need of the Sentinel program. This project has consistently been Malmstrom Air Force Base's #1 MILCON to resolve critical antiterrorism/force protection vulnerabilities; however, the need is now imminent given the Sentinel construction timeline, and significant increase in commercial construction traffic produced by these activities. This is not a tenant or supported service requirement.</p>			
CURRENT SITUATION:			
<p>The inspection of commercial vehicles is currently conducted at the North Gate near on-base housing and a public school. The inspection location is substandard and inadequate to perform this critical antiterrorism/force protection function. The current condition is extremely vulnerable and places Malmstrom's forces and critical facilities at risk daily. The current commercial inspection function does not meet the current Force Protection standards. Temporary measures slightly increase Force Protection but are severely limited by geographical constraints related to the close-proximity to public access and extremely close-proximity to on-base housing. In addition, the North Gate lacks sufficient queuing and traffic calming measures as well as a containment and final barrier system, which will pose further congestion as GBSD personnel arrive. The construction of the six Sentinel MILCONs will result in a significant increase in commercial construction traffic routed through the installation's Housing and Community Districts. This throughput will elevate the risk of a large-scale explosion impacting base housing</p>			

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION MALMSTROM AIR FORCE BASE MONTANA	4. PROJECT TITLE GBSD COMMERCIAL ENTRANCE CONTROL FACILITY
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5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 730-839	7. PROJECT NUMBER NZAS033002	8. PROJECT COST (\$000) 20,000
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and other high traffic areas of the base which include the Fitness Center, Medical Clinic, BX, etc. The magnitude of the construction and number of personnel tied to the Sentinel mission will dramatically increase the overall traffic flow onto the installation. In addition to the increased threat to areas frequented by the base populace, it is anticipated that primary base roads and infrastructure will suffer degradation if MILCON construction vehicles enter the base via the North gate.

IMPACT IF NOT PROVIDED:

Failure to construct this facility will greatly hinder the installation's ability to detect and deter a terrorist threat, reduce the effectiveness of existing resources and possibly allow a terrorist device access to the installation. Required security inspection and surge capabilities in accordance with standards do not currently exist and will not in the future. These circumstances will severely hamper the Security Forces ability to protect Malmstrom Air Force Base, with its mission of nuclear security, against sabotage and terrorist attacks. Without the Large Vehicle Inspection Station, security forces personnel and other personnel will not be protected from severe weather; this large vehicle inspection process will continue in an ineffective/inefficient manner with potentially disastrous results. This vulnerability will be further compounded by the tremendous traffic throughput generated by Sentinel MILCON construction activities.

ADDITIONAL:

This project meets the criteria/scope in Department of the Air Force Manual 32-1084, Standard Facility Requirements. 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. All reasonable alternatives were considered during the development of this project to include [status quo, add/alter, and new construction]. New construction is the only viable option to meet this requirement. A formal economic analysis is in progress and will be completed before approval of the President's Budget. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards [if available], but will not employ the standard facility design because it required a site adapt to fit the requirement at Malmstrom. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year floodplain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. Supporting Facilities cost exceeds 25% of the Primary Facilities cost due to excessive amounts of site improvements and communication costs. The construction growth offset for this requirement is 4,144 square feet.

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION MALMSTROM AIR FORCE BASE MONTANA		4. PROJECT TITLE GBSD COMMERCIAL ENTRANCE CONTROL FACILITY	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 730-839	7. PROJECT NUMBER NZAS033002	8. PROJECT COST (\$000) 20,000
<p>341st Missile Wing Base Civil Engineer: (406) 731-6188</p> <p>Access Control Facility: 385 SM = 4,144 Square Feet; Fence Boundary: 400 LM = 1,312 Linear Feet; Road: 22,700 SM = 244,341 Square Feet; Overhead Protection: 191 SM = 2,056 Square Feet; Demolition: 136 SM = 1,464 Square Feet.</p> <p>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 Air Force requirements.</p>			

1. COMPONENT		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
AIR FORCE				FEBRUARY 2024	
3. INSTALLATION AND LOCATION			4. PROJECT TITLE		
MALMSTROM AIR FORCE BASE MONTANA			GBSD COMMERCIAL ENTRANCE CONTROL FACILITY		
5. PROGRAM ELEMENT		6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)	
11233F		730-839	NZAS033002	20,000	
12. SUPPLEMENTAL DATA:					
a. Estimated Design Data:					
(1) Status:					
(a) Type of Design		Design-Bid-Build			
(b) Date Design Started		01-JUN-23			
(c) Parametric Cost Estimating Used to Develop Costs		YES			
(d) Percent Complete as of 01 JAN 2024		35%			
(e) Date 35% Designed		01-DEC-23			
(f) Date Design Complete		01-MAY-24			
(g) Energy Study/Life-cycle analysis was performed		NO			
(2) Basis:					
(a) Standard or Definitive Design		NO			
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)					
(a) Production of Plans and Specifications		1,170			
(b) All Other Design Costs		630			
(c) Total		1,800			
(d) Contract		1,500			
(e) In-house		300			
(4) Construction Contract Award		2025-FEB			
(5) Construction Start		2025-JUN			
(6) Construction Completion		2026-AUG			
b. Equipment associated with this project provided from other appropriations:					
<u>EQUIPMENT NOMENCLATURE</u>		<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST (\$000)</u>	
Furniture, Fixtures, and Equip		3400	2026	108	
Under Vehicle Surveillance Sys		3400	2026	120	
Intrusion Detection System		3400	2026	75	
CCTV/Security Equipment		3400	2026	150	

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024						
3. INSTALLATION AND LOCATION MALMSTROM AIR FORCE BASE MONTANA				4. PROJECT TITLE WEAPONS STORAGE & MAINTENANCE FAC, INC							
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 215-582	7. PROJECT NUMBER NZAS1014838		8. PROJECT COST (\$000) AUTH: 0 APPR: 238,000						
9. COST ESTIMATES											
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)			
PRIMARY FACILITIES								165,843			
WEAPONS STORAGE AND MAINT FACILITY (215-582)					SM	7,510	19,175	(144,004)			
SECURITY SUPPORT BUILDING (730-834)					SM	63	4,762	(300)			
WEATHER SHELTER (738-401)					SM	14	3,571	(50)			
PIER AND GRADE BEAM FOUNDATION					LS			(15,000)			
SUSTAINABILITY AND ENERGY MEASURES					LS			(2,880)			
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS					LS			(3,609)			
SUPPORTING FACILITIES								45,824			
UTILITIES					LS			(17,000)			
ROADS, SIDEWALKS, AND PARKING					LS			(7,500)			
SITE IMPROVEMENTS					LS			(11,000)			
COMMUNICATIONS					LS			(3,000)			
DEMOLITION					SM			(3,600)			
GENERATOR					kW			(1,600)			
FIRE PUMP BUILDING					LS			(2,124)			
SUBTOTAL								211,667			
CONTINGENCY (5.00%)								10,583			
TOTAL CONTRACT COST								222,250			
SUPERVISION, INSPECTION AND OVERHEAD (5.70%)								12,668			
TOTAL REQUEST								234,918			
TOTAL REQUEST (ROUNDED)								235,000			
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(22,300)			
10. DESCRIPTION OF PROPOSED CONSTRUCTION											
<p>Project will construct an earth-covered reinforced concrete Weapon Storage Facility combining storage and maintenance functions into a single hardened facility, to include four Remote Targeting Engagement System tower structures (Foundations with utility stub outs, stairs and landings, Precast concrete tower sections to include a special conical top, steel doors, ladder & AP bullet resistant door), weather shelter, and supporting fire pump building. The project will demolish buildings 1829 (13 SM), 1835 (1,090 SM), 1870 (529 SM) and 1871 (529 SM). All construction will meet requirements for Department of Defense explosives safety standards and essential facility systems design certification. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria 1-200-01. Sustainable principals, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Unified Facilities Criteria 1-200-02. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 130 Tons</p>											
11. REQ:		7,510 SM		ADQT:		0		SUBSTD:		2,161 SM	
PROJECT:											
Construct a consolidated Weapons Storage Facility											

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION MALMSTROM AIR FORCE BASE MONTANA		4. PROJECT TITLE WEAPONS STORAGE & MAINTENANCE FAC, INC	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER NZAS1014838	8. PROJECT COST (\$000) AUTH: 0 APPR: 238,000
<p>REQUIREMENT: A reinforced concrete facility that puts all weapon maintenance and storage operations in a single facility to minimize the effects of weather in operations, eliminates security deviations, recapitalizes aging infrastructure and achieves economies of scale throughout the mission. A structural foundation with pier and grade-beam construction is required to mitigate the effects of clay soil conditions at Malmstrom Air Force Base. A mast and catenary wire type lighting protection is required in lieu of a roof mounted type lightning protection system. A paved patrol road shall be constructed around the outside perimeter of the security fence. The perimeter road needs to be relocated outside of the new Quantity-Distance arc. The facility shall be designed and constructed to meet weapon surety requirements.</p> <p>CURRENT SITUATION: There are numerous facilities in the current Weapons Storage Area. Building 1840, the primary storage and maintenance facility, is an existing facility placed into service in 1957, which is primarily utilized for maintenance and inspection. Aging infrastructure needs massive overhaul to meet current standards and requirements. The various missions related to the weapons are scattered leading to inefficiencies in security and operations and making the mission more vulnerable. The current facilities do not meet several of the security requirements mandated in Department of Defense security directives. The aging infrastructure necessitates workarounds to meet mission requirements and the current facilities systems are inadequate to support ongoing intrusive weapons maintenance. The existing facilities have outlived their design life span. Operations and Maintenance costs are high and deficiencies result in mission impact. Transverse cracking in foundations and structural elements are evidence of an increased risk of structure failure. There is a lack of space for munitions maintenance, administrative, safety/security screening equipment and general storage. Current work arounds do not address multiple security deviations nor can they realistically address all of the known requirements. Recent failures in the fire suppression piping have flooded the building and disrupted weapon maintenance operations. Emergency repairs were recently performed on the failed boiler system, also disrupting operations.</p> <p>IMPACT IF NOT PROVIDED: Munitions operations will remain at high risk due to inefficiencies, environmental exposure, and failing infrastructure. Waivers and work-arounds to address facility noncompliance with DoD security requirements will continue to create inefficiencies and risks. Outright system failure, as in the case of the fire suppression system, may disrupt or stop operations for duration of failure and emergency repairs.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This project was included in the Fiscal Year 2019 future-years defense plan in FY20. This project does not fall within or partly within the 100-year flood plain. A preliminary analysis of</p>			

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION MALMSTROM AIR FORCE BASE MONTANA		4. PROJECT TITLE WEAPONS STORAGE & MAINTENANCE FAC, INC	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER NZAS1014838	8. PROJECT COST (\$000) AUTH: 0 APPR: 238,000

reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements, i.e., new construction. An economic analysis waiver is approved. This design shall conform to criteria established in the Air Force Corporate Facilities Standards(AFCFS), the Installation Facilities Standards [if available], but will not employ a standard facility design because there is no Air Force standard facility design for this project and there is no applicable standard design from Air Force Civil Engineer Center.

Base Civil Engineer: (406) 731-6188.

Weapons Storage Facility: 7,510 SM = 80,837 SF; Security Support Building: 63 SM = 678 SF; Weather Shelter: 14 SM = 151 SF; Demolition: 2,161 SM = 23,261 SF

JOINT USE CERTIFICATION: Mission Requirements, operational considerations, and location are incompatible with use by other components.

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION MALMSTROM AIR FORCE BASE MONTANA			4. PROJECT TITLE WEAPONS STORAGE & MAINTENANCE FAC, INC		
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 215-582	7. PROJECT NUMBER NZAS1014838	8. PROJECT COST (\$000) AUTH: 0 APPR: 238,000	
12. SUPPLEMENTAL DATA:					
a. Estimated Design Data:					
(1) Status:					
(a) Type of Design				Design-Bid-Build	
(b) Date Design Started				01-MAY-18	
(c) Parametric Cost Estimating Used to Develop Costs				YES	
(d) Percent Complete as of 01 JAN 2024				100%	
(e) Date 35% Designed				01-JAN-19	
(f) Date Design Complete				01-DEC-21	
(g) Energy Study/Life-cycle analysis was performed				YES	
(2) Basis:					
(a) Standard or Definitive Design				YES	
(b) Where Design Was Most Recently Used				F.E. Warren Air Force Base	
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)					
(a) Production of Plans and Specifications				14,100	
(b) All Other Design Costs				7,050	
(c) Total				21,150	
(d) Contract				17,625	
(e) In-house				3,525	
(4) Construction Contract Award				2023-JUL	
(5) Construction Start				2023-AUG	
(6) Construction Completion				2027-JUL	
b. Equipment associated with this project provided from other appropriations:					
<u>EQUIPMENT NOMENCLATURE</u>		<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>	
Communication Equipment		3080	2026	1,500	
Security Systems		3080	2026	20,000	
Furnishings		3080	2026	800	

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION MALMSTROM AIR FORCE BASE MONTANA		4. PROJECT TITLE WEAPONS STORAGE & MAINTENANCE FAC, INC		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER NZAS1014838	8. PROJECT COST (\$000) AUTH: 0 APPR: 238,000	

12. SUPPLEMENTAL DATA (CONTINUED..)

c. Authorization and Appropriation Summary:

	Authorization \$(000)	Auth of Approp \$(000)	Appropriation \$(000)
FY2020 Enacted	235,000	120,000	120,000
Cost Variation 2023	183,014	0	0
FY2025 Budget Request	0	238,000	238,000
Future Request	0	60,000	60,000
Total	418,014		418,000

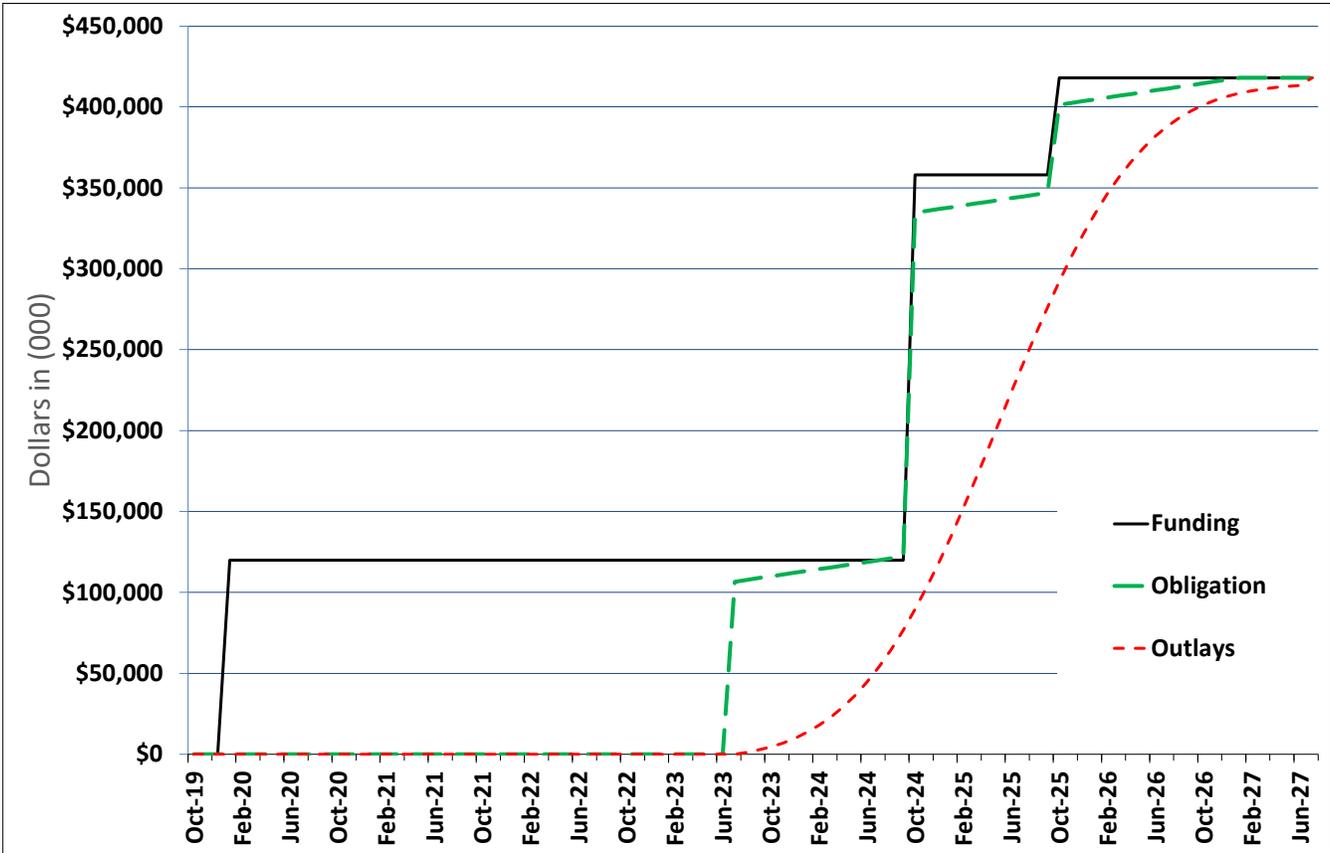
Project Title:	Weapons Storage & Maintenance Fac, Inc
Installation:	Malmstrom AFB, MT
Program Year	2020
Project #	NZAS1014838

All Cost in thousands

Chart Begin Oct-19	FUNDING (note 1)		OBLIGATION (note 2-3)		OUTLAYS (note 4-5)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-19	-	-	-	-	-	-
Nov-19	-	-	-	-	-	-
Dec-19	-	-	-	-	-	-
Jan-20	120,000	120,000	-	-	-	-
Feb-20	-	120,000	-	-	-	-
Mar-20	-	120,000	-	-	-	-
Apr-20	-	120,000	-	-	-	-
May-20	-	120,000	-	-	-	-
Jun-20	-	120,000	-	-	-	-
Jul-20	-	120,000	-	-	-	-
Aug-20	-	120,000	-	-	-	-
Sep-20	-	120,000	-	-	-	-
Oct-20	-	120,000	-	-	-	-
Nov-20	-	120,000	-	-	-	-
Dec-20	-	120,000	-	-	-	-
Jan-21	-	120,000	-	-	-	-
Feb-21	-	120,000	-	-	-	-
Mar-21	-	120,000	-	-	-	-
Apr-21	-	120,000	-	-	-	-
May-21	-	120,000	-	-	-	-
Jun-21	-	120,000	-	-	-	-
Jul-21	-	120,000	-	-	-	-
Aug-21	-	120,000	-	-	-	-
Sep-21	-	120,000	-	-	-	-
Oct-21	-	120,000	-	-	-	-
Nov-21	-	120,000	-	-	-	-
Dec-21	-	120,000	-	-	-	-
Jan-22	-	120,000	-	-	-	-
Feb-22	-	120,000	-	-	-	-
Mar-22	-	120,000	-	-	-	-
Apr-22	-	120,000	-	-	-	-
May-22	-	120,000	-	-	-	-
Jun-22	-	120,000	-	-	-	-
Jul-22	-	120,000	-	-	-	-
Aug-22	-	120,000	-	-	-	-
Sep-22	-	120,000	-	-	-	-
Oct-22	-	120,000	-	-	-	-
Nov-22	-	120,000	-	-	-	-
Dec-22	-	120,000	-	-	-	-
Jan-23	-	120,000	-	-	-	-
Feb-23	-	120,000	-	-	-	-
Mar-23	-	120,000	-	-	-	-
Apr-23	-	120,000	-	-	-	-
May-23	-	120,000	-	-	-	-
Jun-23	-	120,000	-	-	-	-
Jul-23	-	120,000	106,590	106,590	-	-
Aug-23	-	120,000	1,112	107,702	1,164	1,164
Sep-23	-	120,000	1,112	108,814	1,495	2,659
Oct-23	-	120,000	1,112	109,927	1,896	4,554
Nov-23	-	120,000	1,112	111,039	2,376	6,931
Dec-23	-	120,000	1,112	112,151	2,944	9,874
Jan-24	-	120,000	1,112	113,263	3,603	13,477
Feb-24	-	120,000	1,112	114,375	4,358	17,836
Mar-24	-	120,000	1,112	115,487	5,209	23,045
Apr-24	-	120,000	1,112	116,600	6,153	29,198
May-24	-	120,000	1,112	117,712	7,182	36,379
Jun-24	-	120,000	1,112	118,824	8,283	44,663
Jul-24	-	120,000	1,112	119,936	9,441	54,104
Aug-24	-	120,000	1,112	121,048	10,633	64,737
Sep-24	-	120,000	1,112	122,161	11,834	76,571
Oct-24	238,000	358,000	212,516	334,676	13,016	89,587
Nov-24	-	358,000	1,112	335,788	14,145	103,732
Dec-24	-	358,000	1,112	336,901	15,192	118,923
Jan-25	-	358,000	1,112	338,013	16,122	135,046
Feb-25	-	358,000	1,112	339,125	16,908	151,953
Mar-25	-	358,000	1,112	340,237	17,522	169,475
Apr-25	-	358,000	1,112	341,349	17,944	187,418
May-25	-	358,000	1,112	342,461	18,158	205,576
Jun-25	-	358,000	1,112	343,574	18,158	223,735
Jul-25	-	358,000	1,112	344,686	17,944	241,678
Aug-25	-	358,000	1,112	345,798	17,522	259,200
Sep-25	-	358,000	1,112	346,910	16,908	276,107
Oct-25	60,000	418,000	54,407	401,317	16,122	292,230
Nov-25	-	418,000	1,112	402,430	15,192	307,421
Dec-25	-	418,000	1,112	403,542	14,145	321,566
Jan-26	-	418,000	1,112	404,654	13,016	334,582
Feb-26	-	418,000	1,112	405,766	11,834	346,416
Mar-26	-	418,000	1,112	406,878	10,633	357,049
Apr-26	-	418,000	1,112	407,990	9,441	366,490
May-26	-	418,000	1,112	409,103	8,283	374,773
Jun-26	-	418,000	1,112	410,215	7,182	381,955
Jul-26	-	418,000	1,112	411,327	6,153	388,108
Aug-26	-	418,000	1,112	412,439	5,209	393,317
Sep-26	-	418,000	1,112	413,551	4,358	397,676
Oct-26	-	418,000	1,112	414,663	3,603	401,279
Nov-26	-	418,000	1,112	415,776	2,944	404,222
Dec-26	-	418,000	1,112	416,888	2,376	406,598
Jan-27	-	418,000	1,112	418,000	1,896	408,494
Feb-27	-	418,000	-	418,000	1,495	409,989
Mar-27	-	418,000	-	418,000	1,164	411,153
Apr-27	-	418,000	-	418,000	896	412,049
May-27	-	418,000	-	418,000	682	412,731
Jun-27	-	418,000	-	418,000	513	413,243
Jul-27	-	418,000	-	418,000	4,757	418,000

Notes	
Note 1:	Assumes initial appropriation is enacted by Congress Jan FY 2020.
Note 2:	Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.
Note 3:	Assumes ALL project funds (contract, SIOH, contingency, etc) are obligated NLT 6 months prior to project end
Note 4:	Assumes contract award in JUL 2023 and contract completion JUL 27; duration 48 months.
Note 5:	Assumes Agent will retain 1% of project obligations for a final payment

Weapons Storage & Maintenance Fac, Inc, Malmstrom AFB, MT



1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION MT HOME AFB, GEOGRAPHICALLY SEPARATED OREGON					4. COMMAND AIR COMBAT COMMAND		5. AREA CONSTRUCTION COST INDEX TBD				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 31 SEP 23		0	0	0	0	0	0	0	0	0	0
b. END FY		0	0	27	0	0	0	0	0	5	32
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										2,622	
b. INVENTORY TOTAL AS OF 31 SEP 23										0.00	
c. AUTHORIZATION NOT YET IN INVENTORY										0.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										557,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										299,667.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										129,182.00	
g. REMAINING DEFICIENCY										150,000.00	
h. GRAND TOTAL										1,135,849.00	
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			
132-134	Homeland Defense Over-The-Horizon Radar, Inc		12,744 EA		198,000	03/23		08/24			
9. FUTURE PROJECTS 132-134 Homeland Defense Over-The-Horizon Radar, Inc (12,744 EA/\$359,000) 132-134 HLD Over-The-Horizon Radar w/ Land Acq, Inc (TBD/\$299,667) 132-134 HLD Over-The-Horizon Radar 4 (TBD/\$63,920) 132-134 HLD Over-The-Horizon Radar 5 (TBD/\$65,262)											
10. MISSION OR MAJ OR FUNCTIONS NORAD & NORTHOM requires long range early detection capability for low flying targets of interest approaching the borders of the continental United States. Solution: Land-based, 2-D high frequency (HF) bistatic ionospheric backscatter radar. Provides over-the-horizon detection and tracking of air and surface target sets over wide geographic areas; 100 times more sensitive than past and current OTHR systems. Focuses on low flying air target sets that are obscured from conventional line of-sight radar systems by the curvature of the earth. Permits long range early detection and response to land or sea launched targets of interest. Initial deployment: Network of (2) HLD OTHR CONUS transmitter and receiver site facilities for the northwest mission sector sites.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024			
3. INSTALLATION AND LOCATION MT HOME AFB, GEOGRAPHICALLY SEPARATED OREGON			4. PROJECT TITLE HOMELAND DEFENSE OVER-THE-HORIZON RADAR, INC					
5. PROGRAM ELEMENT 12417F		6. CATEGORY CODE 132-134	7. PROJECT NUMBER QYZH253000		8. PROJECT COST (\$000) Auth:1,093,000 Appr: 198,000			
9. COST ESTIMATES								
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES								466,286
ANTENNA SUPPORT STRUCTURE (132-134)					EA	12,744	4,837	(61,643)
LAND ACQUISITION (911-146)					AC	2,622	1,884	(4,940)
LAND WITHDRAWAL (911-146)					AC	4,999	800	(3,999)
AIRCRAFT CONTROL AND WARNING OPS (141-489)					SM	8,260	17,260	(142,568)
READINESS CREW (141-459)					SM	4,873	8,733	(42,556)
Total from Continuation page(s)								(210,580)
SUPPORTING FACILITIES								477,399
UTILITIES					LS			(46,950)
SITE PREPARATION					LS			(152,194)
ROADS, SIDEWALKS, AND PARKING					LS			(24,401)
SITE IMPROVEMENTS					LS			(9,847)
COMMUNICATIONS					LS			(158,732)
DEMOLITION					SM	1,394	6,289	(8,767)
GENERATOR					KW	42,400	1,215	(51,516)
PASSIVE FORCE PROTECTION MEASURES					LS			(18,228)
PRIVATIZED UTILITIES SERVICE AND CONNECTION					LS			(6,764)
SUBTOTAL								943,685
CONTINGENCY (5.00%)								47,184
TOTAL CONTRACT COST								990,869
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)								64,406
DESIGN/BUILD - DESIGN COST (4.00% OF SUBTOTAL)								37,747
TOTAL REQUEST								1,093,022
TOTAL REQUEST (ROUNDED)								1,093,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(801,000)
10. DESCRIPTION OF PROPOSED CONSTRUCTION								
Acquisition of land, provide infrastructure support for antenna equipment, and construct multiple single-story buildings to include water supply, power generation, and fuel dispensing facilities to accommodate the mission of the Homeland Defense (HLD) Over-the-Horizon- Radar (OTHR) program. Construction will include concrete foundations, steel or reinforced concrete superstructures, precast insulated concrete walls, and energy efficient roofing. The land procurement actions include the fee, or lesser real property interest, to include potential withdrawal of public domain land. OTHR sites will require approximately 2,622 acres for the Transmitter systems and 4,999 acres for the Receiver systems. The project consists of two OTHR systems, Systems 1 & 2. Each system consists of two arrays, transmitting and receiving, and the supporting building area for each array. Each OTHR system array will include all necessary antenna support infrastructure, communications cabling, and multiple communications maintenance shops. Radiofrequency shielding will be provided to mitigate interference as required. This project includes the demolition of three buildings for a total of 1,394 Square Meters. Project scope includes eight (8) 5,300 kW generators pursuant to Air Force Manual 32-1062 Electrical Systems, Power Plants and Generators. The project will include all necessary site improvements, site preparation, access roads, existing roadway improvements, supporting pavements, equipment pads,								

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION MT HOME AFB, GEOGRAPHICALLY SEPARATED OREGON			4. PROJECT TITLE HOMELAND DEFENSE OVER-THE-HORIZON RADAR, INC			
5. PROGRAM ELEMENT 12417F		6. CATEGORY CODE 132-134	7. PROJECT NUMBER QYZH253000		8. PROJECT COST (\$000) Auth:1,093,000 Appr: 198,000	
9. COST ESTIMATES (CONTINUED)						
ITEM		UM	QUANTITY	UNIT COST	COST (\$000)	
PRIMARY FACILITIES (CONTINUED)						
VEHICLE MAINTENANCE SHOP (214-425)		SM	1,898	8,811	(16,723)	
VEHICLE OPERATIONS PARKING SHED (214-428)		SM	449	9,977	(4,480)	
VEHICLE FUELING STATION (123-335)		OL	6	319,230	(1,915)	
SECURITY POLICE ENTRY CONTR BUILDING (730-837)		SM	65	37,946	(2,466)	
ELECTRIC POWER STATION BUILDING (811-149)		SM	3,887	22,150	(86,097)	
WATER SUPPLY BUILDING (841-169)		SM	688	37,600	(25,869)	
AIR FORCE COMMUNICATIONS SERVICE MX (217-742)		SM	5,905	11,869	(70,086)	
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(2,944)	
				Total	210,580	
<p>security fencing, utilities and utility connection fees, emergency/stand-by power, communications, and any other necessary supporting infrastructure to provide complete and usable facilities. Facilities will be designed as permanent construction in accordance with the Department of Defense, Unified Facilities Criteria 1-200-01 General Building Requirements. This project will comply with Department of Defense antiterrorism/force protection requirements per United Facilities Criteria 4-010-01 Minimum Antiterrorism Standards for Buildings.</p> <p>Air Conditioning: 3,000 Tons</p>						
11. REQ: 7,621 AC		ADQT: 0		SUBSTD: 0		
PROJECT:						
Acquire land, construct multiple facilities, and field Homeland Defense Over-the-Horizon Radar (HLD OTHR) supporting infrastructure.						
REQUIREMENT:						
United States adversaries continue to pursue weapon delivery platforms designed to evade detection and strike our homeland. HLD OTHR addresses capability gaps in the United States' detection capability of these threats, as identified by the 2020 Northern Approaches Surveillance Analysis of Alternatives. OTHR maintains the United States' strategic advantage by improving domain awareness of the distant northern approaches to the United States, mitigating the limitations of the Cold War-era North Warning System. OTHR sensor supports long range, early detection and response to land or sea launched targets of interest. OTHR comprises three subsystems: the Transmitter, the Receiver, and the Operations Control Center. The proposed project includes two sites; one transmitter and one receiver site at suitable locations in a critical mission sector region designated by North American Aerospace Defense Command and Northern Command. The transmitter site will include two transmitter subsystems and the receiver site will include two receiver						

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION MT HOME AFB, GEOGRAPHICALLY SEPARATED OREGON			4. PROJECT TITLE HOMELAND DEFENSE OVER-THE-HORIZON RADAR, INC		
5. PROGRAM ELEMENT 12417F		6. CATEGORY CODE 132-134	7. PROJECT NUMBER QYZH253000	8. PROJECT COST (\$000) Auth:1,093,000 Appr: 198,000	

subsystems. The transmitter and receiver sites require 40 to 120 miles separation to permit simultaneous operation and detection of diminutive target return signals. The program is exploring options for design and location of the Operations Control Center function. HLDOTHR is a North American Aerospace Defense Command and Northern Command supported service requirement.

CURRENT SITUATION:

This capability does not currently exist anywhere in the United States. HLD OTHR is the number one air domain awareness priority for Commander, North American Aerospace Defense Command and Northern Command and is a critical component of potential adversary countries and Great Power Competition nations.

IMPACT IF NOT PROVIDED:

The United States' adversaries continue to hold the homeland at risk. Timely and accurate threat detection, tracking, and assessment provides critical decision space and time to national leaders, while an inability to do so limits available response options. Once fielded, adversary's Intercontinental Ballistic Missiles (ICBM) equipped with a Hypersonic Glide Vehicle (HGV) will be able to evade current ground and space-based early warning capabilities. Lack of domain awareness may contribute to increased risk of miscalculation, unnecessary escalation, and potential for strategic deterrence failure.

ADDITIONAL:

The criteria/scope for the HLD-OTHR program is not specified in Air Force Manual 32-1084, Facility Requirements Standards; facility requirements are user and/or mission driven. This design will conform to criteria established in the Air Force Corporate Facilities Standards and Installation Facilities Standards but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design to accommodate the facility's mission. All reasonable alternatives were considered during the development of this project; new construction is the only viable option to meet this requirement. A waiver to an economic analysis is in progress. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within a 100-year flood plain. This project was included in the Fiscal Year 2024 future year's defense plan for Fiscal Year 2025. Supporting facility costs exceed 25% of primary facility costs due to site dimensions, sites being located on undeveloped land, and the extensive infrastructure required to support the antenna arrays. The construction growth offset for this requirement is 207,471 square feet.

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION MT HOME AFB, GEOGRAPHICALLY SEPARATED OREGON		4. PROJECT TITLE HOMELAND DEFENSE OVER-THE-HORIZON RADAR, INC	
5. PROGRAM ELEMENT 12417F	6. CATEGORY CODE 132-134	7. PROJECT NUMBER QYZH253000	8. PROJECT COST (\$000) Auth:1,093,000 Appr: 198,000
<p>AIRCRAFT CONTR AND WARNING OPERATIONS BLDG: 8,260 SM = 88,910 SF READINESS CREW: 4,873 SM = 52,453 SF VEHICLE MAINTENANCE SHOP: 1,898 SM = 20,430 SF VEHICLE OPS PARKING SHED: 449 SM = 4,833 SF SECURITY POLICE ENTRY CONTR BLDG: 65 SM = 700 SF ELECTRIC POWER STATION BLDG: 3,887 SM = 41,839 SF WATER SUPPLY BUILDING: 688 SM = 7,406 SF AIR FORCE COMMUNICATIONS SERVICE MAINTENANCE FACILITY: 5,905 SM = 63,561 SF DEMOLITION: 1,394 SM = 15,005 SF</p> <p>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 Air Force.</p>			

1. COMPONENT	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
AIR FORCE			FEBRUARY 2024
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
MT HOME AFB, GEOGRAPHICALLY SEPARATED OREGON		HOMELAND DEFENSE OVER-THE-HORIZON RADAR, INC	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)
12417F	132-134	QYZH253000	Auth:1,093,000 Appr: 198,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design		Design-Build	
(b) Date Design Started		01-MAR-23	
(c) Parametric Cost Estimating Used to Develop Costs		YES	
(d) Percent Complete as of 01 JAN 2024		35%	
(e) Date 35% Designed		01-AUG-23	
(f) Date Design Complete		01-AUG-24	
(g) Energy Study/Life-cycle analysis was performed		YES	
(2) Basis:			
(a) Standard or Definitive Design		NO	
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)			
(a) Production of Plans and Specifications		32,255	
(b) All Other Design Costs		16,128	
(c) Total		48,383	
(d) Contract		40,319	
(e) In-house		8,064	
(4) Construction Contract Award		2025-APR	
(5) Construction Start		2025-JUL	
(6) Construction Completion		2027-OCT	
b. Equipment associated with this project provided from other appropriations:			
<u>EQUIPMENT NOMENCLATURE</u>	<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>
Furniture, Fixtures, and Equip	3080	2026	1,000
Radar and Supporting Equipment	3600	2025	800,000
c. Authorization and Appropriation Summary:			
	Authorization \$(000)	Auth of Approp \$(000)	Appropriation \$(000)
FY2025 Request	1,093,000	198,000	198,000
Future Request	0	895,000	895,000
Total	1,093,000	1,093,000	1,093,000

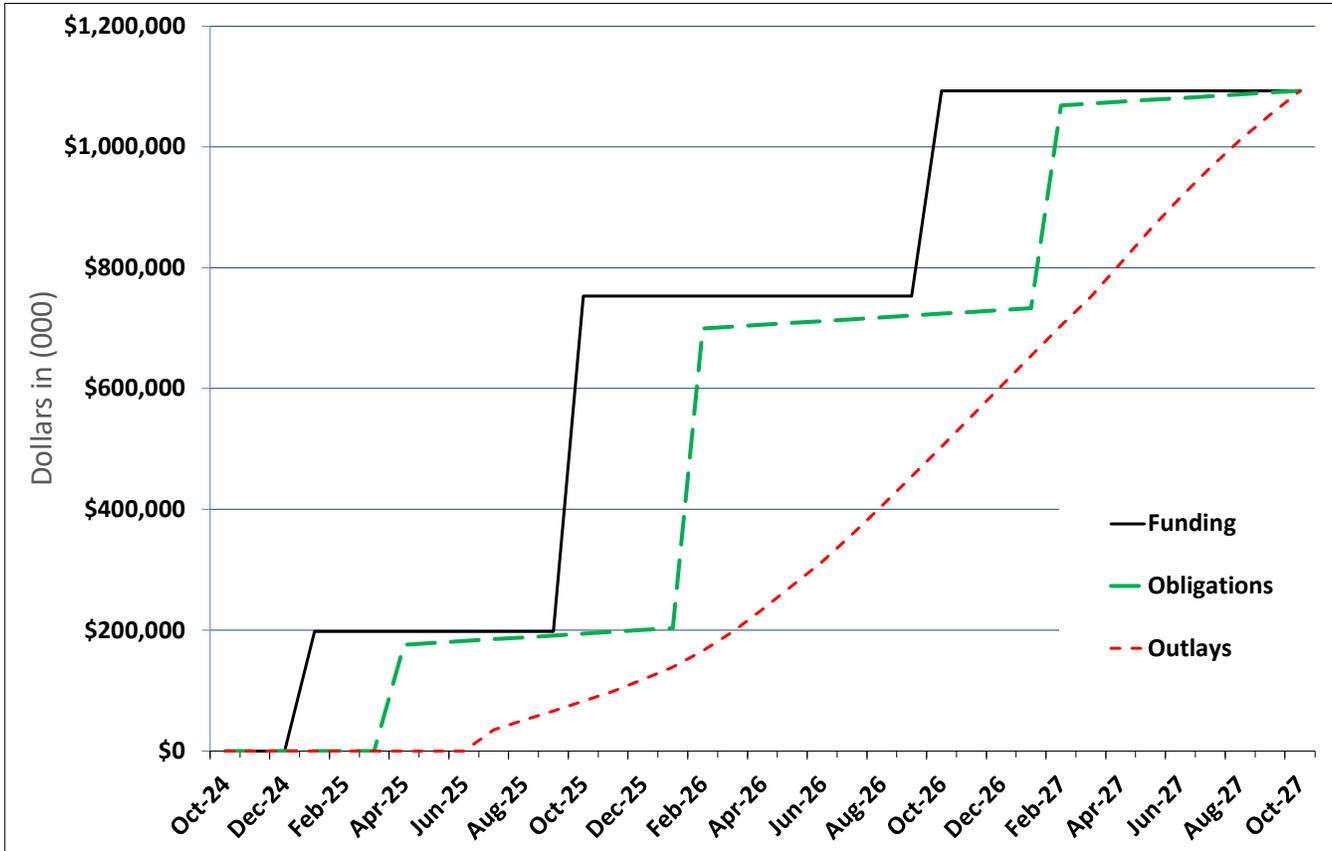
Project Title:	HOMELAND DEFENSE OVER-THE HORIZON RADAR, INC
Installation:	Mt Home AFB, Geographically Separated, Oregon
Program Year	2025
Project #	QYZH253000

All Cost in thousands

Chart Begin Oct-24	FUNDING (note 1)		OBLIGATION (note 2-3)		OUTLAYS (note 4-5)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-24	-	-	-	-	-	-
Nov-24	-	-	-	-	-	-
Dec-24	-	-	-	-	-	-
Jan-25	198,000	198,000	-	-	-	-
Feb-25	-	198,000	-	-	-	-
Mar-25	-	198,000	-	-	-	-
Apr-25	-	198,000	175,874	175,874	-	-
May-25	-	198,000	3,054	178,927	-	-
Jun-25	-	198,000	3,054	181,981	-	-
Jul-25	-	198,000	3,054	185,034	35,120	35,120
Aug-25	-	198,000	3,054	188,088	15,676	50,796
Sep-25	-	198,000	3,054	191,141	15,602	66,398
Oct-25	555,000	753,000	3,054	194,195	16,252	82,650
Nov-25	-	753,000	3,054	197,248	16,357	99,007
Dec-25	-	753,000	3,054	200,302	19,375	118,382
Jan-26	-	753,000	3,054	203,356	20,780	139,162
Feb-26	-	753,000	496,032	699,388	26,883	166,045
Mar-26	-	753,000	3,054	702,442	31,107	197,152
Apr-26	-	753,000	3,054	705,495	36,921	234,073
May-26	-	753,000	3,054	708,549	39,857	273,930
Jun-26	-	753,000	3,054	711,602	39,574	313,504
Jul-26	-	753,000	3,054	714,656	44,991	358,495
Aug-26	-	753,000	3,054	717,709	47,030	405,525
Sep-26	-	753,000	3,054	720,763	48,624	454,149
Oct-26	340,000	1,093,000	3,054	723,816	49,718	503,867
Nov-26	-	1,093,000	3,054	726,870	50,275	554,142
Dec-26	-	1,093,000	3,054	729,924	50,275	604,417
Jan-27	-	1,093,000	3,054	732,977	49,718	654,135
Feb-27	-	1,093,000	335,594	1,068,571	49,624	703,759
Mar-27	-	1,093,000	3,054	1,071,625	48,030	751,789
Apr-27	-	1,093,000	3,054	1,074,678	56,098	807,887
May-27	-	1,093,000	3,054	1,077,732	55,681	863,568
Jun-27	-	1,093,000	3,054	1,080,785	52,432	916,000
Jul-27	-	1,093,000	3,054	1,083,839	49,628	965,628
Aug-27	-	1,093,000	3,054	1,086,893	45,957	1,011,585
Sep-27	-	1,093,000	3,054	1,089,946	40,833	1,052,418
Oct-27	-	1,093,000	3,054	1,093,000	40,582	1,093,000

Notes	
Note 1:	Assumes initial appropriation is enacted by Congress Jan FY 2025
Note 2:	Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.
Note 3:	Assumes ALL project funds (contract, SIOH, contingency, etc) are obligated NLT 6 months prior to project end
Note 4:	Assumes contract award in APR 25 and contract completion OCT 27; duration 30 months.
Note 5:	Assumes Agent will not retain a percentage of project obligations for a final payment

Homeland Defense Over-the-Horizon Radar, Inc., Mt Home AFB, Geographically Separated, Oregon



1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA				4. COMMAND AIR FORCE GLOBAL STRIKE COMMAND			5. AREA CONSTRUCTION COST INDEX 0.96				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30 SEP 23		356	2,953	556	0	0	0	11	13	0	3,889
b. END FY		356	2,953	567	0	0	0	11	13	0	3,900
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										9,716	
b. INVENTORY TOTAL AS OF 30 SEP 23										3,322,624.00	
c. AUTHORIZATION NOT YET IN INVENTORY										805,000.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										177,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										290,000.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										129,983.00	
g. REMAINING DEFICIENCY										302,200.00	
h. GRAND TOTAL										5,026,807.00	
8. PROJ ECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS					
(1) CODE	(2) PROJ ECT TITLE		(3) SCOPE			(1) START	(2) COMPLETE				
141-753	B-21 ADAL Squadron Operations		735 SM		44,000	02/23	02/24				
146-601	B-21 E. Alert Apron Env. Protection Shelters		7,880 SM		79,000	01/23	06/24				
146-601	B-21 N. Env. Protection Shelters (60 Row)		9,848 SM		54,000	01/23	02/24				
215-582	B-21 Weapons Generation Facility Inc		5,694 SM		105,000	07/19	10/21				
9. FUTURE PROJ ECTS											
171-212 B-21 ADD Flight Simulator 2 (1,324 SM / \$47,000)											
146-601 B-21 Env. Protection Shelters 80 Row (TBD / \$88,000)											
146-601 B-21 S. Env. Protection Shelters 60 Row (TBD / \$74,000)											
146-601 B-21 W. Alert Apron Env. Protection Shelters (TBD / \$81,000)											
146-601 B-21 Env. Protection Shelters 100 Row (TBD / \$55,000)											
721-313 WGF Dormitory (TBD / \$74,983)											
10. MISSION OR MAJ OR FUNCTIONS											
Ellsworth AFB consists of the 28th Bomb Wing assigned to the 8th Air Force under Air Force Global Strike Command. The mission of the 28thBomb Wing is to put bombs on target. The 28th Bomb Wing is home to 27 B-1B Lancers, and in 2012 began flying MQ-9 Reaper missions.The28th Bomb Wing is divided into the 28th Operations Group, the 28th Maintenance Group, the 28th Mission Support Group and the 28thMedical Group. The 89th Attack Squadron is a tenant unit at Ellsworth Air Force Base assigned to Air Combat Command.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES											
N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA				4. PROJECT TITLE B-21 ADAL SQUADRON OPERATIONS		
5. PROGRAM ELEMENT 64015F		6. CATEGORY CODE 141-753	7. PROJECT NUMBER FXBM253795		8. PROJECT COST (\$000) 44,000	
9. COST ESTIMATES						
ITEM		UM	QUANTITY	UNIT COST	COST(\$000)	
PRIMARY FACILITIES					35,155	
SQUADRON OPERATIONS (141-753)		SM	735	10,496	(7,715)	
ALTER SQUADRON OPERATIONS (141-753)		SM	1,404	4,224	(5,930)	
SHOP, AIRCRAFT MAINTENANCE, ORG (211-154)		SM	631	10,368	(6,542)	
ALTER SHOP, AIRCRAFT MAINTENANCE (211-154)		SM	3,308	3,840	(12,703)	
ICD 705 PREMIUM		LS			(1,408)	
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(857)	
SUPPORTING FACILITIES					4,288	
UTILITIES		LS			(1,280)	
SITE PREPARATION		LS			(256)	
SITE IMPROVEMENTS		LS			(1,408)	
COMMUNICATIONS		LS			(320)	
TEMPORARY TRAILERS		LS			(1,024)	
SUBTOTAL					39,443	
CONTINGENCY (5.00%)					1,972	
TOTAL CONTRACT COST					41,415	
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)					2,692	
TOTAL REQUEST					44,107	
TOTAL REQUEST (ROUNDED)					44,000	
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(5,040)	
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
<p>Construct an addition of Squadron Operations & Aircraft Maintenance Unit facility to the existing Squadron Operations/Aircraft Maintenance Unit Building 7274. The addition will be constructed using conventional design and construction methods. Construction will include the construction of a steel framed structure, concrete slab foundation system, masonry block exterior walls, and standing seam metal roof. The existing facility will require alteration to meet B-21 requirements. Project includes secure spaces that are to be constructed/altered to meet Intelligence Community Directive 705 and Air Force Instruction 16-1404 Air Force Global Strike Command Guidance Memorandum standards. The project will include all necessary utilities, site improvements, pavements, communications support infrastructure, and all necessary supporting work for a complete and usable facility. The existing road and parking lot on the proposed site will be removed and replaced as needed to provide space for proper siting of the addition and new parking. As applicable, demolition includes the existing pavements, sidewalks, and removing utilities to the nearest valve, manhole, or structure. Pavement will be designed in accordance to Unified Facilities Criteria 2-260-01 and Unified Facilities Criteria 2-260-02. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/ force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 45 Tons</p>						
11. REQ:		735 SM	ADQT:	1,404 SM	SUBSTD:	0

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA			4. PROJECT TITLE B-21 ADAL SQUADRON OPERATIONS		
5. PROGRAM ELEMENT 64015F		6. CATEGORY CODE 141-753	7. PROJECT NUMBER FXBM253795	8. PROJECT COST (\$000) 44,000	
<p>PROJECT: Construct a B-21 Squadron Operations and Aircraft Maintenance Unit.</p> <p>REQUIREMENT: This project constructs an addition and alteration to the existing building 7274 structure that is currently housing B-1 Squadron Operations and a B-1 Aircraft Maintenance Unit. The addition will include space for a B-21 Aircraft Maintenance Unit and additional space for squadron operation. The B-21 squadron operations and aircraft maintenance unit will be conducted in a higher security environment than is currently under the B-1. This requires many functions to be carried out in an Intelligence Community Directive 705 certified spaces. This building is a main control point for all unit flight and flying training tasks including planning, briefing, administration, and critique of combat crews. The Squadron Operations provides an organized operation facility for each flying squadron to carry out its mission. This building is also a main control point for all Aircraft/Helicopter Maintenance Unit maintenance activities, administration, task training, equipment storage, and tool storage. Aircraft/Helicopter Maintenance Units are responsible for servicing, inspecting, maintaining, and launching/recovering assigned aircraft; maintaining/storing required aircraft maintenance equipment/tools; and ensuring all mobility requirements are met. This is not a tenant or supporting service requirement.</p> <p>CURRENT SITUATION: Building 7274 currently houses the B-1 mission. It will house the new B-21 mission and B-21 Squadron Operations #1. The Building currently has an inadequate amount and type of space for squadron operations and aircraft maintenance unit requirements for the B-21.</p> <p>IMPACT IF NOT PROVIDED: This project will add additional space for Squadron Operations and Aircraft Maintenance Unit functions and will provide key mission essential functions. If this facility does not get funded, B-21 units will not have space for conducting squadron operations or aircraft maintenance functions. This will severely limit the ability of these units to generate sorties and make it nearly impossible to accomplish their mission. Additionally with limited B-21 Aircraft Maintenance Unit functionality the proper maintenance of the B-21 platform future and will significantly impact mission capability rates.</p> <p>ADDITIONAL: This project meets the applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements and the B-21 Facility Requirements. A preliminary analysis of reasonable alternatives evaluating status quo, addition/alteration and new construction was accomplished. This analysis indicated that new construction is the most cost-effective alternative to meet mission requirements. A formal economic analysis is being prepared and will be approved prior to the president's budget submission. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), and will employ a standard facility design. Sustainable principles, to include life cycle cost-effective</p>					

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA	4. PROJECT TITLE B-21 ADAL SQUADRON OPERATIONS
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5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 141-753	7. PROJECT NUMBER FXBM253795	8. PROJECT COST (\$000) 44,000
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practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project was included in the Fiscal Year 2024-2028 future-years' defense plan in FY25. This project does not fall within or partly within the 100-year flood plain. The construction growth offset for this requirement is 14,703 square feet.

Base Civil Engineer: 605-385-2658.

SQUADRON OPERATIONS: 735 SM = 7,911 Square Feet;
 ALTER SQUADRON OPERATIONS: 1,404 SM = 15,113 Square Feet;
 SHOP, AIRCRAFT MAINTENANCE, ORG: 631 SM = 6,792 Square Feet;
 ALTER SHOP, AIRCRAFT MAINTENANCE: 3,308 SM = 35,607 Square Feet.

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 Air Force requirements.

1. COMPONENT	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
AIR FORCE			FEBRUARY 2024
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
ELLSWORTH AIR FORCE BASE SOUTH DAKOTA		B-21 ADAL SQUADRON OPERATIONS	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)
64015F	141-753	FXBM253795	44,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	01-FEB-23		
(c) Parametric Cost Estimating Used to Develop Costs	YES		
(d) Percent Complete as of 01 JAN 2024	65%		
(e) Date 35% Designed	01-MAY-23		
(f) Date Design Complete	01-FEB-24		
(g) Energy Study/Life-cycle analysis was performed	YES		
(2) Basis:			
(a) Standard or Definitive Design	NO		
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)			
(a) Production of Plans and Specifications	2,100		
(b) All Other Design Costs	1,050		
(c) Total	3,150		
(d) Contract	2,625		
(e) In-house	525		
(4) Construction Contract Award	2025-FEB		
(5) Construction Start	2025-JUL		
(6) Construction Completion	2027-JUN		
b. Equipment associated with this project provided from other appropriations:			
<u>EQUIPMENT NOMENCLATURE</u>	<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>
Furniture, Fixtures and Equipm	3080	2027	4,250
IDS/ACS/CCTV	3080	2027	790

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024			
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA				4. PROJECT TITLE B-21 E. ALERT APRON ENV. PROTECTION SHELTERS				
5. PROGRAM ELEMENT 64015F		6. CATEGORY CODE 146-601	7. PROJECT NUMBER FXBM253794		8. PROJECT COST (\$000) 79,000			
9. COST ESTIMATES								
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES								53,218
AIRCRAFT SUNSHELTER (146-601)					SM	7,880	3,325	(26,201)
EMBEDDED SOFTWARE INTEGRATION FAC (141-762)					SM	40	19,900	(796)
APRON (113-321)					SM	2,775	1,350	(3,746)
ALTER APRON (113-321)					SM	5,550	1,000	(5,550)
TAXIWAY (112-211)					SM	3,700	1,350	(4,995)
Total from Continuation page(s)								(11,930)
SUPPORTING FACILITIES								17,588
UTILITIES					LS			(3,750)
SITE PREPARATION					LS			(10,379)
ROADS, SIDEWALKS, AND PARKING					LS			(1,875)
SITE IMPROVEMENTS					LS			(1,250)
DEMOLITION					SM	177	119	(21)
GENERATOR					kW	300	1,043	(313)
SUBTOTAL								70,806
CONTINGENCY (5.00%)								3,540
TOTAL CONTRACT COST								74,346
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)								4,832
TOTAL REQUEST								79,178
TOTAL REQUEST (ROUNDED)								79,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(3,000)
10. DESCRIPTION OF PROPOSED CONSTRUCTION								
<p>Project will construct four (4) Environmental Protection Shelters within the apron and repair the existing apron, in preparation for the B-21 mission. The apron layout will include four (4) applicable areas for aircraft parking, servicing/fueling, loading/unloading, and boarding/deplaning as well as parking lanes, taxi lanes, exits and entrances. Building 7437(177 SM) is vacant and will be demolished under this project. Taxiway H serves the Alert Apron and will have pavement and shoulders repaired to meet Unified Facilities Criteria 3-260-02 requirements. Airfield lighting serving Taxiway H and the Alert Apron will be repaired to meet Unified Facilities Criteria 3-535-01 requirements under separate project. Underground conduits and raceways serving airfield lighting will be provided and installed in this project. All airfield pavements shall be marked to comply with Unified Facilities Criteria 3-260-04 requirements. The Environmental Protection Shelters will be constructed to meet the standard specified by the B-21 facilities requirement document to include reinforced concrete foundations. The shelter pavement shall be a Type C traffic area, per Unified Facilities Criteria 3-260-02 Chapter 3 2C2C. Environmental Protection Shelters shall be provided with power for their lighting but does not require any provisions to support the aircraft or its support equipment and lighting shall not interfere with flight line visual references. Environmental Protection Shelters do not require fire detection and suppression system. Any permanent electrical devices or equipment installed on the Environmental Protection Shelters shall comply with the requirements for aircraft hangars in accordance with NFPA 70, in accordance with Unified Facilities Criteria 3-600-01 4-3.3. Two (2) prefabricated Communication Kiosks will provide support to the Environmental Protection Shelters. Contractor</p>								

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA				4. PROJECT TITLE B-21 E. ALERT APRON ENV. PROTECTION SHELTERS		
5. PROGRAM ELEMENT 64015F		6. CATEGORY CODE 146-601		7. PROJECT NUMBER FXBM253794		8. PROJECT COST (\$000) 79,000
9. COST ESTIMATES (CONTINUED)						
ITEM		UM	QUANTITY	UNIT COST	COST (\$000)	
PRIMARY FACILITIES (CONTINUED)						
ALTER TAXIWAY (112-211)		SM	125	1,000	(125)	
SHOULDER, PAVED (116-642)		SM	2,300	750.00	(1,725)	
ALTER SHOULDER, PAVED (116-642)		SM	8,300	550.00	(4,565)	
SECURITY POLICE ENTRY CONTR BUILDING (730-837)		SM	20	28,750	(575)	
FENCE SECURITY/VEHICLE BARRIERS (872-247)		m	1,800	2,200	(3,960)	
JET BLAST DEFLECTOR (116-945)		EA	4	176,333	(705)	
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(275)	
				Total	11,930	
<p>shall provide a temporary fence so escorts will not be required. An entry control point including gate and guard shack will be required. All site work, pavements, contaminated soil remediation, and utility work shall be included for a complete and usable project. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/ force protection requirements per Unified Facilities Criteria 4-010-01. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/ force protection requirements per Unified Facilities Criteria 4-010-01.</p>						
11. REQ: 7,880 SM		ADQT: 0		SUBSTD: 0		
PROJECT: Construct B-21 Alert Apron Environmental Protection Shelter Expansion.						
REQUIREMENT: This project will repair the existing apron and taxiway. It will also construct four (4) environmental protection shelters. Protection of the B-21 from the environment is a requirement in the B-21 Facilities Requirements document. Aprons are individually designed to support specific aircraft and missions at a particular installation. The actual dimensions of an apron are based on the number of authorized aircraft, maneuvering space, and type of activity the apron serves. The apron area must provide enough space for eleven (11) environmental protection shelters and for clearance. Additionally, the apron must provide enough room for maintenance personnel to maneuver the B-21 into the environmental protection shelter as well as room for the B-21 to exit the parking area and enter the active runway without the need for an additional Airfield Marshaller, per Chapter 6 of Unified Facilities Criteria 3-260-01. The environmental protection shelters are a cost-effective alternative to meet the B-21 facilities requirements. They are a self-supported permanent structure that provides cover and protection from the elements. This is not a tenant or supporting service requirement.						

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA		4. PROJECT TITLE B-21 E. ALERT APRON ENV. PROTECTION SHELTERS	
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 146-601	7. PROJECT NUMBER FXBM253794	8. PROJECT COST (\$000) 79,000
CURRENT SITUATION:			
Ellsworth does not currently have a nuclear mission. The B-21 will add this mission. The antiquated alert area (apron) does not meet Air Force Global Strike Command's strategic mission requirements or the requirements for B-21 operation. Overhead protection is required by the B-21 Facilities Requirements Document.			
IMPACT IF NOT PROVIDED:			
Alert area provides critical infrastructure to meet Secretary of Defense Nuclear Initial Operational Capability. If not provided the B-21 will not be able to meet mission requirements. The environmental protection shelters provide overhead protection from the sun and the other elements, such as snow or hail, that are frequent in South Dakota.			
ADDITIONAL:			
This project meets the applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements and the B-21 Facility Requirements. A preliminary analysis of reasonable alternatives evaluating status quo, addition/alteration and new construction was accomplished. This analysis indicated that new construction is the most cost-effective alternative to meet mission requirements. A formal economic analysis is being prepared and will be approved prior to the president's budget submission. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project was included in the Fiscal Year 2024-2028 future years' defense plan in FY25. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. This project does not require a construction growth offset as it results in a 1,259 square footage reduction/credit.			
Base Civil Engineer: 605-385-2658.			
Overhead Protection: 7,880 SM = 84,820 Square Feet; Embedded Software Integration Facility: 40 SM = 431 Square Feet; Apron: 2,775 SM = 29,870 Square Feet; Alter Apron: 5,550 SM = 59,740 Square Feet; Taxiway: 3,700 SM = 39,826 Square Feet; Alter Taxiway: 125 SM = 1,345 Square Feet; Shoulder, Paved: 2,300 SM = 24,757 Square Feet; Alter Shoulder: 8,300 SM = 89,340 Square Feet; Security Police Entry Contr Building: 20 SM = 215 Square Feet;			

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA		4. PROJECT TITLE B-21 E. ALERT APRON ENV. PROTECTION SHELTERS	
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 146-601	7. PROJECT NUMBER FXBM253794	8. PROJECT COST (\$000) 79,000
<p>Fence Security/Vehicle Barriers: 1,800 LM = 5,906 Linear Feet; Demolition: 177 SM = 1,905 Square Meters.</p> <p>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 Air Force requirements.</p>			

1. COMPONENT	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
AIR FORCE			FEBRUARY 2024
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
ELLSWORTH AIR FORCE BASE SOUTH DAKOTA		B-21 E. ALERT APRON ENV. PROTECTION SHELTERS	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)
64015F	146-601	FXBM253794	79,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	01-JAN-23		
(c) Parametric Cost Estimating Used to Develop Costs	YES		
(d) Percent Complete as of 01 JAN 2024	65%		
(e) Date 35% Designed	01-MAY-23		
(f) Date Design Complete	01-JUN-24		
(g) Energy Study/Life-cycle analysis was performed	YES		
(2) Basis:			
(a) Standard or Definitive Design	NO		
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)			
(a) Production of Plans and Specifications	2,800		
(b) All Other Design Costs	4,400		
(c) Total	7,200		
(d) Contract	6,000		
(e) In-house	1,200		
(4) Construction Contract Award	2025-FEB		
(5) Construction Start	2025-JUL		
(6) Construction Completion	2027-JUL		
b. Equipment associated with this project provided from other appropriations:			
<u>EQUIPMENT NOMENCLATURE</u>	<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>
IDS/ACS/CCTV (includes S&A)	3080	2027	3,000

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024			
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA				4. PROJECT TITLE B-21 N. ENV. PROTECTION SHELTERS (60 ROW)				
5. PROGRAM ELEMENT 64015F		6. CATEGORY CODE 146-601	7. PROJECT NUMBER FXBM253404		8. PROJECT COST (\$000) 54,000			
9. COST ESTIMATES								
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES								47,846
AIRCRAFT SUNSHELTER (146-601)					SM	9,850	3,125	(30,781)
EMBEDDED SOFTWARE INTEGRATION FAC (141-762)					SM	40	19,900	(796)
APRON (113-321)					SM	16,238	975.00	(15,832)
SHOULDER, PAVED (116-642)					SM	431	375.00	(162)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS					LS			(275)
SUPPORTING FACILITIES								750
UTILITIES					LS			(250)
SITE PREPARATION					LS			(500)
SUBTOTAL								48,596
CONTINGENCY (5.00%)								2,430
TOTAL CONTRACT COST								51,026
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)								3,317
TOTAL REQUEST								54,343
TOTAL REQUEST (ROUNDED)								54,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION								
<p>Construct five (5) new Environmental Protection Shelters on North 60 row in preparation for the B-21 beddown. This project will meet the requirements outlined in the B-21 Facilities requirement document. B-21 aircraft parked on the apron shall maintain a minimum wingtip clearance of 25 to 50 feet in accordance with Air Force Manual 32-1084. Environmental Protection Shelters will be a low-profile metal building system with standing seam metal roof/wall panels. The shelter pavement shall be a Type C traffic area, per Unified Facilities Criteria 3-260-02 Chapter 3. Environmental Protection Shelters will not require any provisions to support the aircraft or its support equipment. The Environmental Protection Shelters will have both interior and exterior lighting systems for nighttime operations. Three (3) prefabricated Maintenance Kiosks will be provide support to the Environmental Protection Shelters. All necessary utilities, electrical, communications, site improvements, conventional and airfield pavements, infrastructure, and all necessary supporting work for complete and usable facilities will be included. All lighting systems will be designed to provide illumination levels and environments as required by Unified Facilities Criteria 3-530-01 and recommended by the Illuminating Engineering Society Handbook. All electrical wiring and devices shall be rated for Class I, Division 2 hazardous area classification in accordance with the National Fire Protection Association 70, National Electric Code. Communication equipment and wiring will be grounded in accordance with the guidelines of Telecommunications Industry Association Standard TIA-607-D-2019 and National Electrical Manufacturers Association Standard VE2. Fire detection and or suppression systems are not required. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p>								

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA			4. PROJECT TITLE B-21 N. ENV. PROTECTION SHELTERS (60 ROW)		
5. PROGRAM ELEMENT 64015F		6. CATEGORY CODE 146-601	7. PROJECT NUMBER FXBM253404	8. PROJECT COST (\$000) 54,000	
11. REQ:	9,850 SM	ADQT:	0	SUBSTD:	0
<p>PROJECT: Construct Environmental Protection Shelters on North 60 Row.</p> <p>REQUIREMENT: Air Force Global Strike Command has selected Ellsworth Air Force Base to house the new B-21 Bomber. Environmental protection shelters are a cost-effective solution in lieu of the construction of a fully enclosed hangar. This is not a tenant or supporting service requirement.</p> <p>CURRENT SITUATION: Ellsworth Air Force Base does not currently have environmental protection shelters that can meet the needs of the B-21.</p> <p>IMPACT IF NOT PROVIDED: If not provided Ellsworth will not be able to meet the facilities requirements of the B-21 and potential damage to the new aircraft could occur. This would hinder sortie production, increase the cost of B-21 operation, and could prevent the aircraft from meeting Air Force Global Strike Command mission requirements.</p> <p>ADDITIONAL: This project meets the applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements and the B-21 Facility Requirements. A preliminary analysis of reasonable alternatives evaluating status quo, addition/alteration and new construction was accomplished. This analysis indicated that new construction is the most cost-effective alternative to meet mission requirements. A formal economic analysis is being prepared and will be approved prior to the president's budget submission. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project was included in the Fiscal Year 2024-2028 future years' defense plan in FY25. This project does not fall within or partly within the 100-year flood plain. The construction growth offset for this requirement is 431 square feet.</p> <p>Base Civil Engineer: (605) 385-2658.</p> <p>Aircraft Sunshelter: 9,850 SM = 106,024 Square Feet; Embedded Software Integration Facility: 40 SM = 431 Square Feet Apron: 16,238 SM = 174,784 Square Feet;</p>					

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA		4. PROJECT TITLE B-21 N. ENV. PROTECTION SHELTERS (60 ROW)	
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 146-601	7. PROJECT NUMBER FXBM253404	8. PROJECT COST (\$000) 54,000
<p>Shoulder, Paved: 431 SM = 4,639 Square Feet.</p> <p>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 Air Force requirements.</p>			

1. COMPONENT	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
AIR FORCE			FEBRUARY 2024
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
ELLSWORTH AIR FORCE BASE SOUTH DAKOTA		B-21 N. ENV. PROTECTION SHELTERS (60 ROW)	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)
64015F	146-601	FXBM253404	54,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	01-JAN-23		
(c) Parametric Cost Estimating Used to Develop Costs	YES		
(d) Percent Complete as of 01 JAN 2024	65%		
(e) Date 35% Designed	01-MAY-23		
(f) Date Design Complete	01-FEB-24		
(g) Energy Study/Life-cycle analysis was performed	YES		
(2) Basis:			
(a) Standard or Definitive Design	NO		
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)			
(a) Production of Plans and Specifications	3,060		
(b) All Other Design Costs	1,530		
(c) Total	4,590		
(d) Contract	3,825		
(e) In-house	765		
(4) Construction Contract Award	2025-FEB		
(5) Construction Start	2025-JUL		
(6) Construction Completion	2027-JUN		
b. Equipment associated with this project provided from other appropriations:			
<u>EQUIPMENT NOMENCLATURE</u>	<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA			4. PROJECT TITLE B-21 WEAPONS GENERATION FACILITY, INC			
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 215-582	7. PROJECT NUMBER FXBM225791		8. PROJECT COST (\$000) AUTH: 0 APPR: 105,000	
9. COST ESTIMATES						
ITEM		UM	QUANTITY	UNIT COST	COST(\$000)	
PRIMARY FACILITIES					140,000	
SPECIAL WEAPON MAINTENANCE SHOP (215-582)		SM	5,694	16,192	(92,197)	
ALERT FIRE TEAM FACILITY (730-836)		SM	510	18,494	(9,432)	
ENTRY CONTROL BUILDING (730-837)		SM	646	15,907	(10,276)	
GENERATOR BUILDING (811-147)		SM	149	30,901	(4,604)	
WATER FIRE PUMPING STATION (843-316)		SM	301	29,053	(8,745)	
Total from Continuation page(s)					(14,746)	
SUPPORTING FACILITIES					75,967	
UTILITIES		LS			(28,125)	
SITE PREPARATION		LS			(7,815)	
ROADS, SIDEWALKS, AND PARKING		LS			(5,880)	
SITE IMPROVEMENTS		LS			(16,825)	
COMMUNICATIONS		LS			(7,185)	
GENERATOR		kW			(1,088)	
PASSIVE FORCE PROTECTION MEASURES		LS			(9,049)	
SUBTOTAL					215,967	
CONTINGENCY (10.00%)					21,597	
TOTAL CONTRACT COST					237,564	
SUPERVISION, INSPECTION AND OVERHEAD (5.70%)					13,541	
TOTAL REQUEST					251,105	
TOTAL REQUEST (ROUNDED)					251,000	
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(52,280)	
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
<p>Construct a Special Weapon Maintenance Shop or more commonly referred to as a Weapons Generation Facility that is a consolidated, hardened facility within a protective zone, with consolidated storage, maintenance, inspection, and administrative functions using best practices from similar Department of the Navy and Department of Energy facilities currently in use. Project will construct a fire suppression system, all utilities, pavements, communication, site improvements, Security Forces Fire Team Facility, Entry Control Point /Shelter and associated support facilities to provide a complete and useable facility. Six 5-ton overhead bridge cranes will be constructed for maintenance purposes in each maintenance bay. Five of the six will be nuclear certifiable. All construction will meet requirements for essential facility system nuclear design certification. Backup generator is authorized in accordance with Air Force Instruction 32- 1062 for this facility type. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with DoD Antiterrorism/Force Protection requirements per UFC 4-010-01.</p> <p>Air Conditioning: 150 Tons</p>						
11. REQ:		5,694 SM	ADQT:	0	SUBSTD:	0

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA			4. PROJECT TITLE B-21 WEAPONS GENERATION FACILITY, INC		
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 215-582	7. PROJECT NUMBER FXBM225791	8. PROJECT COST (\$000) AUTH: 0 APPR: 105,000	
9. COST ESTIMATES (CONTINUED)					
ITEM		UM	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES (CONTINUED)					
GANTRY/BRIDGE CRANE (890-154)		EA	6	648,459	(3,891)
FENCE INTERIOR (872-248)		m	576	12,917	(7,440)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(3,415)
				Total	14,746
PROJECT: Construct a B-21 Weapons Generation Facility					
REQUIREMENT: Project is to construct a weapons generation facility to grant nuclear capability at Ellsworth Air Force Base, South Dakota. A reinforced concrete facility that places all nuclear maintenance and storage operations in a single facility to minimize the effects of weather in operations, improve operations security, and increase security posture. Weapons generation facilities are single hardened facilities within a protective zone. Backup generators are a requirement for the facility for the critical operations in the facility. Nuclear certified hoists and cranes are also required to perform asset handling and maintenance functions.					
CURRENT SITUATION: This is a new requirement to support the B-21. The Ellsworth Air Force Base Weapons Generation Facility initiative is an important element of a broader Weapons Generation Facility Investment Strategy under Air Force Global Strike Command. Ellsworth does not have any facilities that can be used as a weapons generation facility, especially that of nuclear capacity. There are no workarounds to building, storing, and the maintaining of the armament load out for the B-21 without the initiative of a weapons generation facility at Ellsworth Air Force Base.					
IMPACT IF NOT PROVIDED: No facilities currently exist to handle the B-21 requirements. The stand-up of a nuclear capable mission at Ellsworth Air Force Base is a strategic based decision. The bed down of the new B-21 bomber at Ellsworth Air Force Base is the platform to project this strategic mission. If this project is not funded, the storage and maintenance of weapons will not be feasible at Ellsworth Air Force Base. Lack of adequate weapons storage and maintenance facilities at Ellsworth Air Force Base will prevent diversification of the Air Force's nuclear mission, placing continued strain on the current nuclear bomber force. All areas of the facility are required for it to operate as a nuclear certified facility. It is not possible to separate the facility into complete and usable phases.					
ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084 - Facility Requirements. This project will comply with Department of Defense S-					

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA		4. PROJECT TITLE B-21 WEAPONS GENERATION FACILITY, INC	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER FXBM225791	8. PROJECT COST (\$000) AUTH: 0 APPR: 105,000
<p>5210.41M. Ammunitions and Explosives Safety Standards will comply with DoD Manual 6055.09 Vol 2. All construction will meet requirements for essential facility system nuclear design certification per Air Force Manual 91-118, Air Force Manual 91-119, and Facilities Criteria 04- 420-07F. The project storage, maintenance and admin area will comply with Department of Defense Physical Security of Sensitive Conventional Arms, Ammunition, and Explosives per Department of Defense Manual 5100.76-M. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. A waiver to an Economic Analysis has been approved for this project. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100 year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>Base Civil Engineer: (605) 385-2658.</p> <p>Special Weapon Maintenance Shop: 5,694 SM = 61,290 Square Feet; Alert Fire Team Facility: 510 SM = 5,490 Square Feet; Entry Control Building: 646 SM = 6,953 Square Feet; Generator Building: 149 SM = 1,604 Square Feet; Water Fire Pumping Station: 301 SM = 3,240 Square Feet; Fence Interior: 576 Linear Meters = 1,890 Linear Feet.</p> <p>JOINT USE CERTIFICATION: The facility can be used by other components on an available basis; however, the scope of the project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA			4. PROJECT TITLE B-21 WEAPONS GENERATION FACILITY, INC		
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 215-582	7. PROJECT NUMBER FXBM225791	8. PROJECT COST (\$000) AUTH: 0 APPR: 105,000	
12. SUPPLEMENTAL DATA:					
a. Estimated Design Data:					
(1) Status:					
(a) Type of Design				Design-Bid-Build	
(b) Date Design Started				01-JUL-19	
(c) Parametric Cost Estimating Used to Develop Costs				YES	
(d) Percent Complete as of 01 JAN 2024				100%	
(e) Date 35% Designed				01-APR-20	
(f) Date Design Complete				01-OCT-21	
(g) Energy Study/Life-cycle analysis was performed				YES	
(2) Basis:					
(a) Standard or Definitive Design				NO	
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)					
(a) Production of Plans and Specifications				15,060	
(b) All Other Design Costs				7,530	
(c) Total				22,590	
(d) Contract				18,825	
(e) In-house				3,765	
(4) Construction Contract Award				2023-DEC	
(5) Construction Start				2024-JAN	
(6) Construction Completion				2027-APR	
b. Equipment associated with this project provided from other appropriations:					
<u>EQUIPMENT NOMENCLATURE</u>		<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>	
FURNISHINGS, FIXTURES, & EQUIP		3080	2024	2,292	
UPS SYSTEM		3080	2024	1,954	
ELECTRONIC SECURITY EQUIPMENT		3010	2024	44,744	
AIR COMPRESSORS		3400	2024	73	
ISO TEC BOOTH/TURNSTILES		3080	2024	1,080	
CFCI CONVERTERS		3080	2024	2,137	

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE SOUTH DAKOTA	4. PROJECT TITLE B-21 WEAPONS GENERATION FACILITY, INC
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 215-582	7. PROJECT NUMBER FXBM225791	8. PROJECT COST (\$000) AUTH: 0 APPR: 105,000
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12. SUPPLEMENTAL DATA (CONTINUED..)

c. Authorization and Appropriation Summary:

	Authorization \$(000)	Auth of Approp \$(000)	Appropriation \$(000)
FY2023 Enacted	251,000	50,000	50,000
Cost Variation 2023	64,000	0	0
FY2024 Budget Request	0	160,000	160,000
FY2025 Budget Request	0	105,000	105,000
Total	315,000		315,000

Spend Plan

CAO: 04-Dec-23

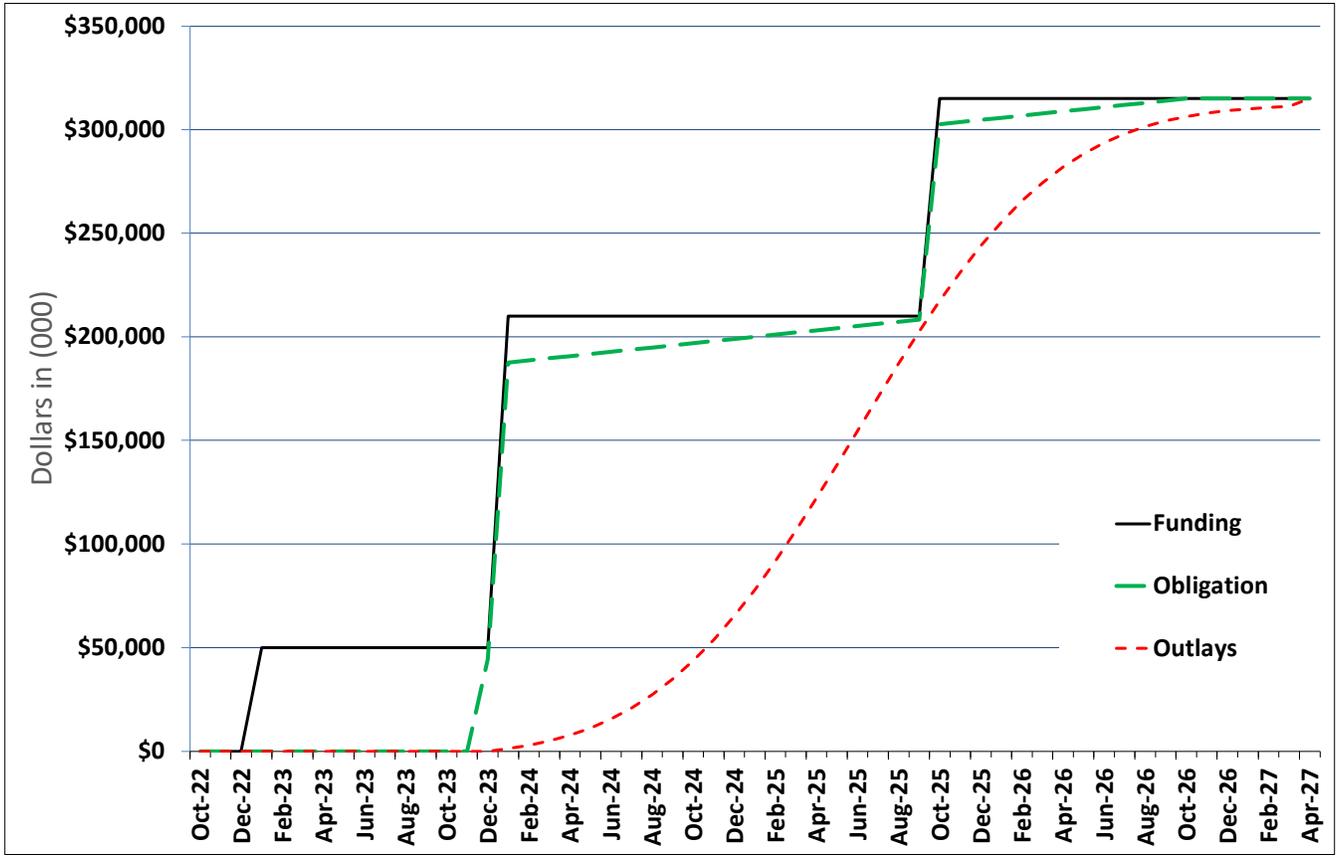
Project Title:	B-21 Weapons Generation Facility, Inc
Installation:	Ellsworth AFB, SD
Program Year	2023
Project #	FXBM225791

All Cost in thousands

Chart Begin Oct-22	FUNDING (note 1)		OBLIGATION (note 2-3)		OUTLAYS (note 4-5)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-22	-	-	-	-	-	-
Nov-22	-	-	-	-	-	-
Dec-22	-	-	-	-	-	-
Jan-23	50,000	50,000	-	-	-	-
Feb-23	-	50,000	-	-	-	-
Mar-23	-	50,000	-	-	-	-
Apr-23	-	50,000	-	-	-	-
May-23	-	50,000	-	-	-	-
Jun-23	-	50,000	-	-	-	-
Jul-23	-	50,000	-	-	-	-
Aug-23	-	50,000	-	-	-	-
Sep-23	-	50,000	-	-	-	-
Oct-23	-	50,000	-	-	-	-
Nov-23	-	50,000	-	-	-	-
Dec-23	-	50,000	44,413	44,413	-	-
Jan-24	160,000	210,000	143,155	187,568	1,205	1,205
Feb-24	-	210,000	1,035	188,603	1,610	2,815
Mar-24	-	210,000	1,035	189,638	2,115	4,931
Apr-24	-	210,000	1,035	190,674	2,732	7,663
May-24	-	210,000	1,035	191,709	3,469	11,132
Jun-24	-	210,000	1,035	192,744	4,330	15,461
Jul-24	-	210,000	1,035	193,780	5,313	20,775
Aug-24	-	210,000	1,035	194,815	6,410	27,184
Sep-24	-	210,000	1,035	195,850	7,602	34,786
Oct-24	-	210,000	1,035	196,886	8,863	43,649
Nov-24	-	210,000	1,035	197,921	10,159	53,807
Dec-24	-	210,000	1,035	198,956	11,447	65,254
Jan-25	-	210,000	1,035	199,992	12,680	77,934
Feb-25	-	210,000	1,035	201,027	13,809	91,743
Mar-25	-	210,000	1,035	202,062	14,784	106,526
Apr-25	-	210,000	1,035	203,098	15,560	122,086
May-25	-	210,000	1,035	204,133	16,100	138,186
Jun-25	-	210,000	1,035	205,168	16,377	154,562
Jul-25	-	210,000	1,035	206,204	16,377	170,939
Aug-25	-	210,000	1,035	207,239	16,100	187,038
Sep-25	-	210,000	1,035	208,274	15,560	202,598
Oct-25	105,000	315,000	94,302	302,576	14,784	217,382
Nov-25	-	315,000	1,035	303,611	13,809	231,190
Dec-25	-	315,000	1,035	304,647	12,680	243,870
Jan-26	-	315,000	1,035	305,682	11,447	255,317
Feb-26	-	315,000	1,035	306,717	10,159	265,475
Mar-26	-	315,000	1,035	307,753	8,863	274,338
Apr-26	-	315,000	1,035	308,788	7,602	281,940
May-26	-	315,000	1,035	309,823	6,410	288,350
Jun-26	-	315,000	1,035	310,859	5,313	293,663
Jul-26	-	315,000	1,035	311,894	4,330	297,993
Aug-26	-	315,000	1,035	312,929	3,469	301,462
Sep-26	-	315,000	1,035	313,965	2,732	304,194
Oct-26	-	315,000	1,035	315,000	2,115	306,309
Nov-26	-	315,000	-	315,000	1,610	307,919
Dec-26	-	315,000	-	315,000	1,205	309,124
Jan-27	-	315,000	-	315,000	886	310,011
Feb-27	-	315,000	-	315,000	641	310,652
Mar-27	-	315,000	-	315,000	456	311,108
Apr-27	-	315,000	-	315,000	3,892	315,000

Notes	
Note 1:	Assumes initial appropriation is enacted by Congress Jan FY 2023.
Note 2:	Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.
Note 3:	Assumes ALL project funds (contract, SIOH, contingency, etc) are obligated NLT 6 months prior to project end
Note 4	Assumes contract award in Dec 2023 and contract completion Feb 27; duration 40 months.
Note 5	Assumes Agent will retain 1% of project obligations for a final payment

B-21 Weapons Generation Facility, Inc, Ellsworth AFB, SD



1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROGRAM						2. DATE (YYYYMMDD) 20240201			
3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE, TEXAS						4. COMMAND AIR FORCE GLOBAL STRIKE COMMAND			5. AREA CONSTRUCTION COST INDEX 0.89		
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF	30 SEP 23	331	3,021	393	10	56	9	256	1,233	441	5,750
b. END FY		331	3,021	393	10	56	9	256	1,233	441	5,750
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										7,135	
b. INVENTORY TOTAL AS OF 30 SEP 23										2,675,955.00	
c. AUTHORIZATION NOT YET IN INVENTORY										0.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										31,300.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										265,000.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										930,112.00	
g. REMAINING DEFICIENCY										543,400.00	
h. GRAND TOTAL										4,445,767.00	
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		
121-111	B-21 LRS Fuels Administrative Laboratory			659 SM		12,800		10/22	09/23		
852-269	B-21 Refueler Truck Yard			12,436 SM		18,500		09/22	05/24		
9. FUTURE PROJECTS											
211-111 B-21 Low Observable Corrosion Cntrl Fac (8,890 SM / \$176,000)						211-111 B-21 Fuel Cell Wash Rack (6,462 SM / \$91,000)					
141-753 B-21 Mission Planning Facility (4,377 SM / \$71,000)						442-758 B-21 Aircraft Ground Equipment Shop (2,787 SM / \$13,400)					
890-181 B-21 Utilities & Site Improvements (4,648 LM / \$18,000)						442-758 B-21 Squad Ops/AMU, Inc 1 (111,687 SM / \$415,312)					
171-618 B-21 Field Training Detachment Facility (5,192 SM / \$65,000)						215-582 Weapons Generation Facility (7,583 SM / \$181,000)					
171-212 B-21 Flight Simulator Facility (3,252 SM / \$41,000)						442-758 B-21 Aircraft Parts Store (3,716 SM / \$23,000)					
217-712 B-21 Radio Frequency Facility (5,345 SM / \$90,000)											
442-758 B-21 Armaments Storage (465 SM / \$10,400)											
10. MISSION OR MAJ OR FUNCTIONS											
The mission of the Dyess AFB 7th Bomb Wing is to employ the world's finest bomber, deploy, sustain, maintain & employ the B-1 to combatant commanders for employment worldwide, train the world's finest bomber crews, and support the joint fight anywhere in the world. Dyess AFB consists of 7th Bomb Wing, 317th Air Lift Wing, 489 Bomb Group, 29th Training Systems Squadron, ACC Training Support Squadron, 337th Test & Evaluation Squadron, 77th Weapons Squadron, 436th Training Squadron, Air Force Audit Agency, Area Defense Council, 372 Training Squadron, Air Force Office of Special Investigation, Defense Commissary Agency, Army Air Force Exchange Service, US Army Corps of Engineers, and US Marine Corps Reserves.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES											
N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024			
3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE TEXAS			4. PROJECT TITLE B-21 LRS FUELS ADMINISTRATIVE LABORATORY					
5. PROGRAM ELEMENT 64015F		6. CATEGORY CODE 121-111	7. PROJECT NUMBER FNWZ213003		8. PROJECT COST (\$000) 12,800			
9. COST ESTIMATES								
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES								8,814
PETROLEUM OPERATIONS BUILDING (121-111)					SM	659	12,995	(8,564)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS					LS			(250)
SUPPORTING FACILITIES								2,651
UTILITIES					LS			(1,404)
ROADS, SIDEWALKS, AND PARKING					LS			(503)
SITE IMPROVEMENTS					LS			(195)
GENERATOR					kW	75	2,632	(197)
PASSIVE FORCE PROTECTION MEASURES					LS			(266)
COMMUNICATIONS					LS			(86)
SUBTOTAL								11,465
CONTINGENCY (5.00%)								573
TOTAL CONTRACT COST								12,038
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)								782
TOTAL REQUEST								12,820
TOTAL REQUEST (ROUNDED)								12,800
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(665)
10. DESCRIPTION OF PROPOSED CONSTRUCTION								
<p>Construct a new Logistics & Readiness Fuels Flight administrative & laboratory facility for the 7th Logistics & Readiness Squadron at Dyess Air Force Base consisting of administrative space, command space, laboratory space, physical control capability & proximity to the refueler truck yard. Construction includes a single-story facility with reinforced concrete drilled pier foundation, load bearing masonry walls, prefinished metal wall panels, standing seam metal roof on light gauge steel framing & interior finishes. The facility also includes laboratory fixtures including grounding rails, sinks, cabinetry, water filtration, vented enclosure, dedicated heating & air conditioning, drainage, base wide fuel system control interface, electrical, secure communications, a backup generator per Air Force Instruction 32-1062, mass notification system, fire suppression & alarm system. Supporting facilities include all utilities, detention pond for storm drainage, site improvements, pavements, communications infrastructure, special foundation due to local expansive soil, site demolition & other supporting work necessary to make a complete & usable facility. Storm drainage includes an area for temporary water retention. The existing fuels administration laboratory facility, B4111, will be demolished by a separate project in the following fiscal year. This project will comply with Unified Facility Criteria 4-010-06, Cybersecurity of Facility-Related Control Systems. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/ force protection requirements per Unified Facilities Criteria 4-010-01.</p>								

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE TEXAS		4. PROJECT TITLE B-21 LRS FUELS ADMINISTRATIVE LABORATORY		
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 121-111	7. PROJECT NUMBER FNWZ213003	8. PROJECT COST (\$000) 12,800	
Air Conditioning: 13 Tons				
11. REQ: 659 SM ADQT: 0 SUBSTD: 659 SM				
PROJECT: Construct Logistics & Readiness Squadron fuels Administrative Laboratory.				
REQUIREMENT: This project is required to construct an adequate administrative & laboratory facility for the 7th Logistics & Readiness Squadron Fuels Flight located near the north end of the Dyess flight line. Dyess Air Force Base operates twenty-six (26) B-1B bomber aircraft as well as thirty-three (33) C-130J aircraft in over nine thousand (9000) annual sorties. The 7th Logistics & Readiness Fuels element provides fuel support & distribution to all aircraft & equipment assigned or attached to Dyess Air Force Base as well as managing a \$48 million fuel account & providing laboratory quality assurance functions for aviation & ground fuels. This facility will support all current & new mission fueling activities necessary for the operation of all aircraft, vehicles & generators on base. This is not a tenant or supported service requirement.				
CURRENT SITUATION: The current mission & personnel are housed in building 4111 which is in poor condition & located within the footprint of planned new facilities associated with the new mission B-21 program. Building 4111 was built in the 1950s & has significant structural concerns including foundation cracking from settling, floors spreading apart & deteriorating finishes. The foundation requires more than 25% replacement, thereby exceeding the statutory limit for repair. The facility contains asbestos in the flooring mastic & regular roof leaks requiring frequent repairs. Regular maintenance is also needed for heating, ventilation & air conditioning equipment as well as electrical systems, neither of which meet current code regulations. The existing facility was not originally constructed as a petroleum operations building & does not provide the functionality or configuration needed for its current mission. The current facility does not meet accessibility requirements for exterior access, internal circulation or restrooms. The existing facility is also located within the footprint of new B-21 construction & will be demolished in support of that project.				
IMPACT IF NOT PROVIDED: The personnel currently housed in building 4111 provide key mission essential functions for all current & new mission aircraft, transient aircraft, base vehicles, aircraft ground equipment, generators & any other asset requiring fuel. The requirement to demolish the existing facility is driven by new mission B-21 planning & will continue whether this project is provided or not. Without this project, the current Logistics & Readiness Fuels element will be displaced with no operational facility. Alternatives considered included analysis				

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE TEXAS	4. PROJECT TITLE B-21 LRS FUELS ADMINISTRATIVE LABORATORY
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5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 121-111	7. PROJECT NUMBER FNWZ213003	8. PROJECT COST (\$000) 12,800
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of several vacant facilities as well as use of shared space. Vacant buildings at Dyess are in short supply & all require substantial rehabilitation. None of the existing options can accommodate the laboratory component without significant work beyond the limits of repair thresholds, meaning a Military Construction project would be required. Renovation is expected to have a similar cost but yield an inferior product as space available for renovation near the refueler truck yard does not exist. Fuels personnel will be required to transit up to 2.5 KM between facilities. This situation has been encountered before & resulted in a nearly one hundred (100) percent increase in response time.

ADDITIONAL:

This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. Project criteria/scope determined based on 121111 Petroleum Operations Building & complies with Category Group 12, Liquid Fueling & Dispensing Facilities as well as Unified Facilities Criteria 4-310-03 per the description of a type C++ lab. This design shall conform to criteria established in the Air Force Corporate Facilities Standards & Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project & there is no applicable standard design from the Air Force Civil Engineer Center. An economic analysis waiver has been approved for this project. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development & construction of the project in accordance with Unified Facilities Criteria 1-200-02. This includes the preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, or when life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. This project was included in the Fiscal Year 2024-2028 future years' defense plan in FY25. Facility is sited in accordance with the Installation Development Plan & is within a compatible land use area. Supporting Facilities cost exceed 25% of the Primary Facilities cost due to the extensive utilities and pavements work necessary for the site. The construction growth offset for this requirement is 7,093 square feet.

7th Bomb Wing Base Civil Engineer: Commercial (325) 696-2250.

Petroleum Operations Building: 659 SM = 7,093 Square Feet.

JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of this project is based on Air Force requirements.

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE TEXAS			4. PROJECT TITLE B-21 LRS FUELS ADMINISTRATIVE LABORATORY		
5. PROGRAM ELEMENT 64015F		6. CATEGORY CODE 121-111	7. PROJECT NUMBER FNWZ213003	8. PROJECT COST (\$000) 12,800	
12. SUPPLEMENTAL DATA:					
a. Estimated Design Data:					
(1) Status:					
(a) Type of Design		Design-Bid-Build			
(b) Date Design Started		01-OCT-22			
(c) Parametric Cost Estimating Used to Develop Costs		YES			
(d) Percent Complete as of 01 JAN 2024		100%			
(e) Date 35% Designed		01-FEB-23			
(f) Date Design Complete		01-SEP-23			
(g) Energy Study/Life-cycle analysis was performed		YES			
(2) Basis:					
(a) Standard or Definitive Design		NO			
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)					
(a) Production of Plans and Specifications		708			
(b) All Other Design Costs		354			
(c) Total		1,062			
(d) Contract		885			
(e) In-house		177			
(4) Construction Contract Award		2024-NOV			
(5) Construction Start		2024-DEC			
(6) Construction Completion		2026-MAR			
b. Equipment associated with this project provided from other appropriations:					
<u>EQUIPMENT NOMENCLATURE</u>		<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>	
Furniture, Fixtures, and Equip		3400	2025	100	
Communications Equipment		3010	2025	565	

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024						
3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE TEXAS			4. PROJECT TITLE B-21 REFUELER TRUCK YARD								
5. PROGRAM ELEMENT 64015F		6. CATEGORY CODE 852-269	7. PROJECT NUMBER FNWZ213004		8. PROJECT COST (\$000) 18,500						
9. COST ESTIMATES											
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)			
PRIMARY FACILITIES								14,354			
VEHICLE PARKING REFUELING (852-269)					SM	12,436	875.00	(10,882)			
VEHICLE OPERATIONS PARKING SHED (214-428)					SM	3,484	980.00	(3,414)			
BASE ENGINEER COVERED STORAGE FAC (219-946)					SM	19	3,033	(58)			
SUPPORTING FACILITIES								2,102			
UTILITIES					LS			(405)			
ROADS, SIDEWALKS, AND PARKING					LS			(896)			
SITE IMPROVEMENTS					LS			(801)			
SUBTOTAL								16,456			
CONTINGENCY (5.00%)								823			
TOTAL CONTRACT COST								17,279			
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)								1,123			
TOTAL REQUEST								18,402			
TOTAL REQUEST (ROUNDED)								18,500			
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(75)			
10. DESCRIPTION OF PROPOSED CONSTRUCTION											
<p>Construct a new refueler truck yard for the 7th Logistics & Readiness Squadron Fuels flight at Dyess Air Force Base. Construction includes a refueler truck parking area with 9 inch reinforced concrete pavement, secondary containment, area lighting & pavement markings. Construct covered vehicle parking canopies within the refueler truck parking area with metal superstructure, standing seam metal roof & lighting. Construct secondary containment for R-11 refueler trucks consisting of trench drains, drain lines & a concrete containment basin. Construct a covered equipment storage building adjacent to the refueler truck parking area with concrete foundation, metal superstructure, metal roofing, metal wall covering & lighting. This storage building will not require plumbing, heating or cooling. Site improvements include a contractor controlled access & lay down area with gate to support construction activities for multiple projects. Supporting facilities to include all utilities, site improvements, stormwater drainage, access roadways, perimeter fencing, special foundations due to local expansive soils & other necessary work to support a complete & usable facility. The project must be compatible with applicable Department of Defense, Air Force & base design standards. In addition, local materials & construction techniques will be used where cost effective. Facilities to be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building Requirements. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010-01, Department of Defense Minimum Antiterrorism Standards for Buildings, and Unified Facility Criteria 4-010-06, Cybersecurity of Facility-Related Control Systems.</p>											
11. REQ:		12,436 SM		ADQT:		0		SUBSTD:		0	

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE TEXAS		4. PROJECT TITLE B-21 REFUELER TRUCK YARD	
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 852-269	7. PROJECT NUMBER FNWZ213004	8. PROJECT COST (\$000) 18,500
PROJECT:			
Construct B-21 Refueler Truck Yard.			
REQUIREMENT:			
<p>This project is required to construct an adequate refueler truck yard for the 7th Logistics & Readiness Squadron located near the north end of the Dyess flight line. Dyess Air Force Base operates 26 B-1B bomber aircraft as well as 33 C-130J aircraft in over 9000 annual sorties. The 7th Logistics & Readiness Fuels element operates sixteen R11, six R12 & two C-300 refueler trucks, supporting both current & new mission fueling needs for all active duty & transient aircraft on base. This project requires a metal canopy over sixteen parking spaces supported by an open frame metal structure. This structure will have lighting & lightning protection but will not be enclosed. New mission requirements include fuel temperature restrictions, not achievable in the high heat/high sunlight environment common to Dyess Air Force Base. Shading of the fuel trucks while parked has been determined to provide adequate mitigation.</p>			
<p>To lower overall cost & expedite project completion, a 'contractor free zone' will be created to allow contractor controlled access to the beddown area from outside the base perimeter. The beddown of the B-21 aircraft at Dyess Air Force Base currently involves 29 individual projects, all of which benefit from the contractor free zone. The free zone was included with this project because it is the first major project in the beddown sequence. The free zone includes a new contractor controlled gate & access point off the nearest outside road into the construction area for contractor use only. A new security fence line surrounds a two-lane access drive to the construction site & area allocated for the contractors to set up, work & store their equipment overnight, eliminating daily transit on & off the base, daily equipment inspection & storage fees. The access drive is primarily gravel with segments of concrete for foreign object debris prevention. The fence line also surrounds a future batch plant, staging area & laydown area.</p>			
This is not a tenant or supported service requirement.			
CURRENT SITUATION:			
<p>The current refueler truck operation utilizes a piece of unused aircraft hangar apron built in the 1950's. This pavement is being taken over by the B-21 program for use as a maintenance hangar apron for (3) new B-21 facilities. Other unused pavement sections large enough to accommodate the refueler truck mission & able to meet mission requirements do not exist.</p>			
<p>Contractors are currently required to enter Dyess Air Force Base through the 'Tye gate'. Once passing this gate contractors have full access to the entire base requiring them to be thoroughly inspected prior to entry. Although in accordance with military policy & security posture, it is time consuming & requires excess manpower, long lines & 20-30 minute wait times are common. The Tye gate is undersized & incorrectly designed, with the planned project volume expected to exacerbate these problems. The majority of B-21 beddown construction is located within the same area, construction of a contractor free zone adjacent to this area</p>			

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE TEXAS		4. PROJECT TITLE B-21 REFUELER TRUCK YARD	
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 852-269	7. PROJECT NUMBER FNWZ213004	8. PROJECT COST (\$000) 18,500

will allow for shorter travel times & negate the need for higher level security measures.

IMPACT IF NOT PROVIDED:

The refueler truck program provides key mission essential functions for all Dyess aircraft. The requirement to demolish the existing facility is driven by new mission B-21 planning & will continue whether this project is provided or not. If a new facility is not constructed, the work around is to distribute trucks over multiple locations requiring operators to transit up to 2 Kilometers to & from the trucks plus the distance to the trucks destination. In the past this resulted in a near 100% increase in response time. Additionally lack of required containment capability poses an environmental risk.

Normal west Texas climactic conditions include high temperatures & sun for the majority of the year. Continual exposure to direct sunlight causes fuel tanks & the fuel inside to reach temperatures in excess of the surrounding air. Fuel temperature limits are an operational requirement specific to the B-21 & compliance is critical to mission executability. Metal shade canopies were identified as the most practical solution to this issue, without them, compliance is not possible.

Without the contractor free zone access time would increase as well as costs arising from storing equipment off base. The contractor free zone also includes space for a future concrete batch plant. Concrete begins to cure the instant it is mixed in the truck & the longer it waits before being placed the less time there is before the concrete becomes unusable. In past projects long wait times at the gate have resulted in many truckloads of concrete not being usable by the time they reach the job site. When this happens the government must pay for both the unusable load & the new load to replace it.

ADDITIONAL:

This project meets applicable criteria/scope specified in Unified Facilities Criteria 3-460-01 as well as Department of the Air Force Manual 32-1084, Standard Facility Requirements. Project criteria/scope determined based on 852269 Vehicle Parking Refueling & complies with Category Group 11, Airfield Pavements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards & Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project & there is no applicable standard design from the Air Force Civil Engineer Center. An economic analysis waiver has been approved for this project. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development & construction of the project in accordance with Unified Facilities Criteria 1-200-02. This includes the preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, or when life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. This project was included in the 2024-2028 Future Years'

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE TEXAS		4. PROJECT TITLE B-21 REFUELER TRUCK YARD	
5. PROGRAM ELEMENT 64015F	6. CATEGORY CODE 852-269	7. PROJECT NUMBER FNWZ213004	8. PROJECT COST (\$000) 18,500
<p>Defense Plan in FY25. Facility is sited in accordance with the Installation Development Plan & is within a compatible land use area. The construction growth offset for this requirement is 205 square feet.</p> <p>7th Bomb Wing Base Civil Engineer: Commercial (325) 696-2250.</p> <p>Vehicle Parking Refueling: 12,436 SM = 133,860 Square Feet; Vehicle Operations Parking Shed: 3,484 SM = 37,501 Square Feet; Covered Storage Facility: 19 SM = 205 Square Feet.</p> <p>JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of this project is based on Air Force requirements.</p>			

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE TEXAS			4. PROJECT TITLE B-21 REFUELER TRUCK YARD		
5. PROGRAM ELEMENT 64015F		6. CATEGORY CODE 852-269	7. PROJECT NUMBER FNWZ213004	8. PROJECT COST (\$000) 18,500	
12. SUPPLEMENTAL DATA:					
a. Estimated Design Data:					
(1) Status:					
(a) Type of Design		Design-Bid-Build			
(b) Date Design Started		01-SEP-22			
(c) Parametric Cost Estimating Used to Develop Costs		YES			
(d) Percent Complete as of 01 JAN 2024		35%			
(e) Date 35% Designed		01-JAN-24			
(f) Date Design Complete		01-MAY-24			
(g) Energy Study/Life-cycle analysis was performed		YES			
(2) Basis:					
(a) Standard or Definitive Design		NO			
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)					
(a) Production of Plans and Specifications		1,110			
(b) All Other Design Costs		556			
(c) Total		1,666			
(d) Contract		1,388			
(e) In-house		278			
(4) Construction Contract Award		2025-FEB			
(5) Construction Start		2025-JUL			
(6) Construction Completion		2027-JUN			
b. Equipment associated with this project provided from other appropriations:					
<u>EQUIPMENT NOMENCLATURE</u>		<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>	
FURNITURE, FIXTURES & EQUIPMEN		3400	2025	50	
COMMUNICATION EQUIPMENT		3400	2025	25	

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION JOINT BASE SAN ANTONIO, TEXAS				4. COMMAND AIR EDUCATION AND TRAINING COMMAND			5. AREA CONSTRUCTION COST INDEX 0.89				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30 SEP 23		4,269	12,599	15,627	1,589	13,135	26	5,291	17,030	11,344	80,910
b. END FY		4,221	13,101	17,019	2,329	17,313	51	5,256	17,101	11,227	87,618
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE								46,307			
b. INVENTORY TOTAL AS OF 30 -SEP-23								20,119,413.00			
c. AUTHORIZATION NOT YET IN INVENTORY								590,600.00			
d. AUTHORIZATION REQUESTED IN THIS PROGRAM								469,000.00			
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM								0.00			
f. PLANNED IN NEXT THREE PROGRAM YEARS								124,000.00			
g. REMAINING DEFICIENCY								2,353,930.00			
h. GRAND TOTAL								23,656,943.00			
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				
721-313	METC Barracks/Ships/Dorms #1, INC		40,881SM		77,000	07/23	06/24				
9. FUTURE PROJECTS 721-313 METC - Barracks/Ships/Dorms #1, Inc (40,881 SM/\$392,000) 171-621 BMT Classrooms/Dining Facility 4 (9,898 SM/\$124,000)											
10. MISSION OR MAJ OR FUNCTIONS The 502nd Air Base Wing (ABW) is the host wing for Joint Base San Antonio (JBSA) which is comprised of three primary locations; JBSA-Lackland, JBSA-Randolph, JBSA-Fort Sam Houston as well as eight other operating locations. The 502 ABW provides installation support services to more than 41 Air Force Mission Partners, 30 US Army Mission Partners, 6 US Navy Mission Partners, US Marine Corps Mission Partners, US Coast Guard, and 15 US Governmental Organizations Mission Partners, that accomplish diverse training, flying, cyber, intelligence, medical and installations missions every day.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION JOINT BASE SAN ANTONIO TEXAS				4. PROJECT TITLE METC - BARRACKS/SHIPS/DORMS #1, INC		
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 721-313	7. PROJECT NUMBER JBSF200567		8. PROJECT COST (\$000) Auth: 469,000 Appr: 77,000	
9. COST ESTIMATES						
ITEM		UM	QUANTITY	UNIT COST	COST(\$000)	
PRIMARY FACILITIES					362,540	
TECHNICAL TRAINING STUDENT HOUSING (721-313)		SM	40,881	7,707	(315,070)	
ATHLETIC FIELD, TRACK (750-177)		EA	1	379,350	(379)	
OVERHEAD PROTECTION (145-921)		SM	2,921	2,203	(6,435)	
AIR CONDITIONING CENTRAL PLANT (890-123)		SM	699	49,722	(34,756)	
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(5,900)	
SUPPORTING FACILITIES					41,960	
SPECIAL CONSTRUCTION FEATURES		LS			(5,585)	
UTILITIES		LS			(17,875)	
ROADS, SIDEWALKS, AND PARKING		LS			(4,690)	
SITE IMPROVEMENTS		LS			(7,556)	
COMMUNICATIONS		LS			(2,153)	
DEMOLITION		SM	764	1,006	(769)	
ENVIRONMENTAL REMEDIATION		LS			(135)	
PRIVATIZED UTILITIES SERVICE AND CONNECTION		LS			(3,197)	
SUBTOTAL					404,500	
CONTINGENCY (5.00%)					20,225	
TOTAL CONTRACT COST					424,725	
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)					27,607	
DESIGN/BUILD - DESIGN COST (4.0000%)					16,180	
TOTAL REQUEST					468,512	
TOTAL REQUEST (ROUNDED)					469,000	
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(8,500)	
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
<p>Construct a multi-story dormitory with an elevator and running track for the Medical Technical Training students. Construction will consist of drilled pier foundation, concrete floor slabs, concrete steel frame, standing seam metal roof, and insulated precast concrete exterior walls. Facilities will incorporate features that provide the lowest practical life cycle cost solutions satisfying the facility requirements with the goal of maximizing energy efficiency and eliminating carbon emissions. Facility will also comply with the regulations set forth in Executive Order 14057. The project will include a new central utility plan to house the required electrical and mechanical equipment. The project will demolish buildings 1370 (144 SM), 1381 (140 SM), 1383 (140 SM), 1368 (140 SM), 1371 (140 SM), 1388 (10 SM), and an unnumbered building north of building 1370 (50 SM) (Total: 764 Square Meters). The demolition work will include testing/removal of asbestos and lead-based paint and any work needed to mitigate potential hazards. Project includes all utilities, communications, site improvements, environmental remediation and any other necessary supporting facilities to provide a complete and usable facility. Project will also demolish Koehler Road between Williams Way-Womack Road. Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01. This will be carried out as</p>						

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION JOINT BASE SAN ANTONIO TEXAS		4. PROJECT TITLE METC - BARRACKS/SHIPS/DORMS #1, INC		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 721-313	7. PROJECT NUMBER JBSF200567	8. PROJECT COST (\$000) Auth: 469,000 Appr: 77,000	
<p>a prototype project pursuant to the authority in Sec. 4022, Title 10 United States Code notwithstanding subchapters I and III of chapter 169 of title 10, United States Code, and chapter 11 of title 40, United States Code.</p> <p>Air Conditioning: 510 Tons.</p>				
11. REQ: 40,881 SM ADQT: 0 SUBSTD: 764 SM				
<p>PROJECT: Medical Education & Training Campus (METC) Barracks/Ships/Dorms #1</p>				
<p>REQUIREMENT: Joint Base San Antonio Fort Sam Houston requires space for the Medical Education Training Campus. This would accommodate the Army, Navy, and Air Force when repairs or replacements are made to recapitalize the current facilities to provide the medical trainees with a facility conducive to proper housing and training. Construct a new 1,200 person multi-story dormitory that is resistant to high traffic wear. Properly sized, sited, designed, and furnished facilities are essential to successfully train future medical trainees. This is not a tenant or supported service requirement.</p>				
<p>CURRENT SITUATION: Currently Medical Education Training Campus is comprised of 5 barracks, ships and dorms with capacity of 6,000 personnel, 3,000 rooms (2x Army, 2x Navy and 1x Air Force) commissioned in 2010/2011; annual student load of 15-20,000 medical trainees. Base Realignment and Closure funded 3 dorms and Army military construction funded 2 dorms, Design-Build utilizing Type V (e.g. "stick-built") modular construction through United States Army Corps of Engineers selected for lower cost (estimated \$60M in savings) and to achieve mission readiness end state (3-5 years). Within 3-4 years post acceptance, systematic infrastructure issues surfaced resulting in non-mission capable rooms across the campus.</p>				
<p>For the last seven years, Joint Base San Antonio has worked to address issues raised by Office of the Secretary of Defense on life, health, and safety concerns related to medical trainees. The Medical Education and Training Campus dormitories on the installation have become unsustainable as we continually battle mold, catastrophic flooding, structural failures and water damage plaguing a campus that is less than 10 years old. As a result of the major design flaws, these facilities have already received over \$67M in additional repair investments since originally constructed. While these repairs did improve the overall condition of the facilities, there continues to be catastrophic failures on the campus. During 2021 inspections, 711 rooms required remediation to remove mold and mildew. The magnitude of these systematic failures has forced unplanned and emergency trainee evacuations across the last 5 years. The sensitivity of the situation and its impacts to students warrants immediate action to mitigate further impacts to the mission at Joint Base San Antonio Fort Sam Houston.</p>				

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION JOINT BASE SAN ANTONIO TEXAS		4. PROJECT TITLE METC - BARRACKS/SHIPS/DORMS #1, INC	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 721-313	7. PROJECT NUMBER JBSF200567	8. PROJECT COST (\$000) Auth: 469,000 Appr: 77,000
<p>IMPACT IF NOT PROVIDED: Living quarters will continue to remain far below minimum Air Force dormitory standards. Extensive, ongoing facility maintenance costs will continue to escalate as needed repairs and upgrades are postponed due to the heavy civil engineering shop workload and unavailable repair funding. Failure to construct new dorms will result in continued deterioration and eventual inoperability of the existing dorms.</p> <p>ADDITIONAL: This project meets the criteria/scope in Department of the Air Force Manual 32-1084, Standard Facility Requirements. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New construction is the only viable option to meet this requirement. A formal economic analysis is in progress. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from United States Army Corps of Engineers. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. This project does not fall within or partly within the 100-year flood plain. This project was not included in the Fiscal Year 2024 future years' defense plan. The construction growth offset for this requirement is 439,339 square feet.</p> <p>Base Civil Engineer: (210) 671-2977</p> <p>TECHNICAL TRAINING STUDENT DORMITORY: 40,881 SM = 440,039 Square Feet. OVERHEAD PROTECTION: 2,921 SM = 31,441 Square Feet AIR CONDITIONING CENTRAL PLANT: 699 SM = 7,524 Square Feet DEMOLITION: 764 SM = 8,224 Square Feet.</p> <p>JOINT USE CERTIFICATION: The facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p> <p>Acquisition Strategy: Other Transaction Authority</p>			

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION JOINT BASE SAN ANTONIO TEXAS			4. PROJECT TITLE METC - BARRACKS/SHIPS/DORMS #1, INC		
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 721-313	7. PROJECT NUMBER JBSF200567	8. PROJECT COST (\$000) Auth: 469,000 Appr: 77,000	
12. SUPPLEMENTAL DATA:					
a. Estimated Design Data:					
(1) Status:					
(a) Type of Design				Design-Build	
(b) Date Design Started				01-JUL-23	
(c) Parametric Cost Estimating Used to Develop Costs				YES	
(d) Percent Complete as of 01 JAN 2024				15%	
(e) Date 35% Designed				01-MAY-24	
(f) Date Design Complete				01-JUN-24	
(g) Energy Study/Life-cycle analysis was performed				YES	
(2) Basis:					
(a) Standard or Definitive Design				NO	
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)					
(a) Production of Plans and Specifications				10,883	
(b) All Other Design Costs				12,810	
(c) Total				23,693	
(d) Contract				17,288	
(e) In-house				6,405	
(4) Construction Contract Award				2025-AUG	
(5) Construction Start				2025-AUG	
(6) Construction Completion				2027-OCT	
b. Equipment associated with this project provided from other appropriations:					
<u>EQUIPMENT NOMENCLATURE</u>		<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST (\$000)</u>	
Furniture Fixtures & Equipment		3080	2026	5,000	
Communications Equipment		3080	2026	3,500	

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION JOINT BASE SAN ANTONIO TEXAS	4. PROJECT TITLE METC - BARRACKS/SHIPS/DORMS #1, INC
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 721-313	7. PROJECT NUMBER JBSF200567	8. PROJECT COST (\$000) Auth: 469,000 Appr: 77,000
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12. SUPPLEMENTAL DATA (CONTINUED..)

c. Authorization and Appropriation Summary:

	Authorization \$(000)	Auth of Approp \$(000)	Appropriation \$(000)
FY2025 Request	469,000	77,000	77,000
Future Request	0	392,000	392,000
Total	469,000		469,000

Spend Plan

CAO:

04-Dec-23

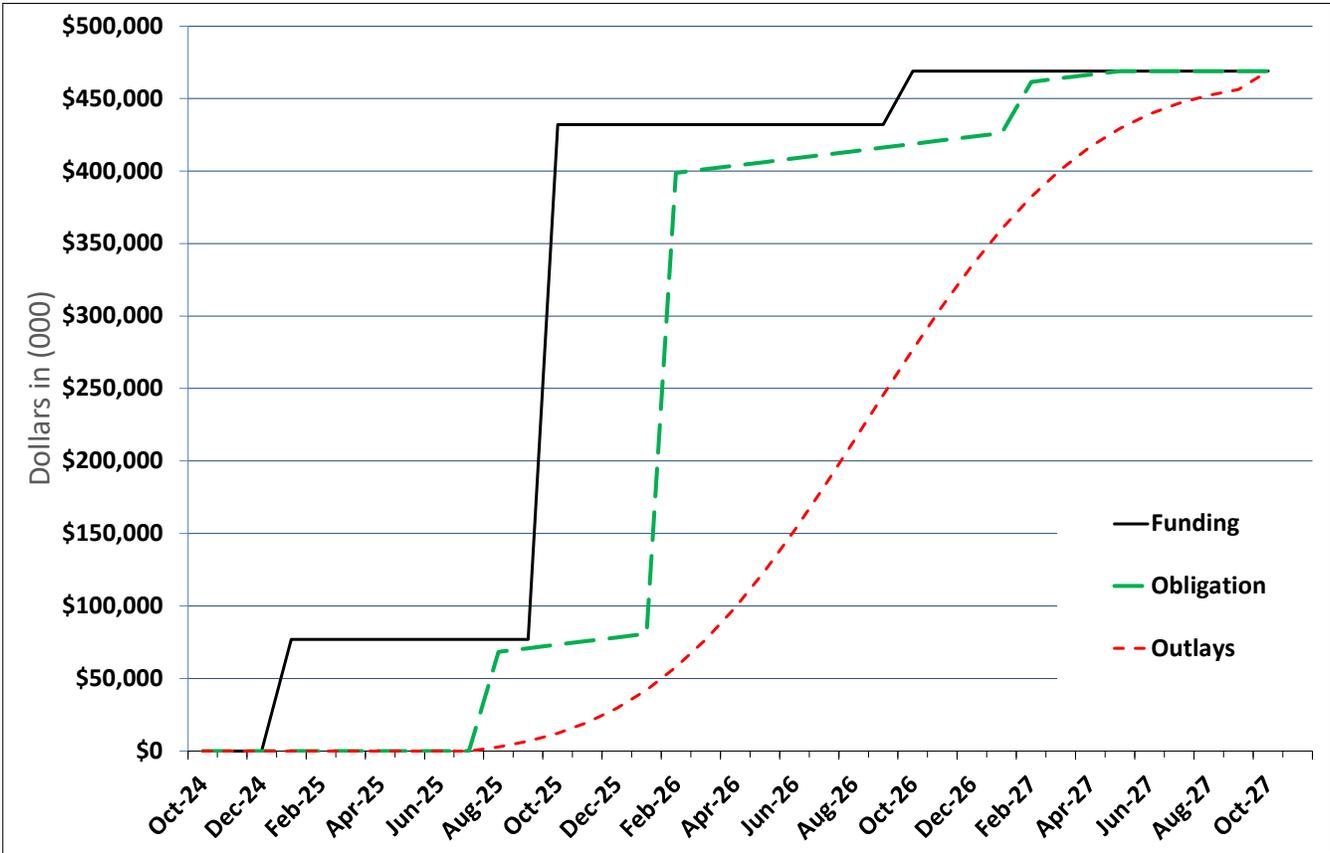
Project Title:	METC - Barracks/Ships/Dorms #1, Inc
Installation:	JBSA Ft Sam Houston
Program Year	2025
Project #	JBSF200567

All Cost in thousands

Chart Begin Oct-24	FUNDING (note 1)		OBLIGATION (note 2-3)		OUTLAYS (note 4-5)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-24	-	-	-	-	-	-
Nov-24	-	-	-	-	-	-
Dec-24	-	-	-	-	-	-
Jan-25	77,000	77,000	-	-	-	-
Feb-25	-	77,000	-	-	-	-
Mar-25	-	77,000	-	-	-	-
Apr-25	-	77,000	-	-	-	-
May-25	-	77,000	-	-	-	-
Jun-25	-	77,000	-	-	-	-
Jul-25	-	77,000	-	-	-	-
Aug-25	-	77,000	68,395	68,395	2,751	2,751
Sep-25	-	77,000	2,496	70,891	3,952	6,703
Oct-25	355,000	432,000	2,496	73,387	5,515	12,218
Nov-25	-	432,000	2,496	75,883	7,477	19,695
Dec-25	-	432,000	2,496	78,378	9,848	29,543
Jan-26	-	432,000	2,496	80,874	12,599	42,142
Feb-26	-	432,000	317,825	398,699	15,659	57,801
Mar-26	-	432,000	2,496	401,194	18,905	76,706
Apr-26	-	432,000	2,496	403,690	22,173	98,879
May-26	-	432,000	2,496	406,186	25,262	124,141
Jun-26	-	432,000	2,496	408,682	27,960	152,101
Jul-26	-	432,000	2,496	411,177	30,061	182,162
Aug-26	-	432,000	2,496	413,673	31,397	213,559
Sep-26	-	432,000	2,496	416,169	31,855	245,414
Oct-26	37,000	469,000	2,496	418,665	31,397	276,811
Nov-26	-	469,000	2,496	421,160	30,061	306,872
Dec-26	-	469,000	2,496	423,656	27,960	334,832
Jan-27	-	469,000	2,496	426,152	25,262	360,094
Feb-27	-	469,000	35,361	461,513	22,173	382,267
Mar-27	-	469,000	2,496	464,009	18,905	401,172
Apr-27	-	469,000	2,496	466,504	15,659	416,831
May-27	-	469,000	2,496	469,000	12,599	429,430
Jun-27	-	469,000	-	469,000	9,848	439,278
Jul-27	-	469,000	-	469,000	7,477	446,755
Aug-27	-	469,000	-	469,000	5,515	452,271
Sep-27	-	469,000	-	469,000	3,952	456,222
Oct-27	-	469,000	-	469,000	12,778	469,000

Notes	
Note 1:	Assumes initial appropriation is enacted by Congress Jan FY 2025
Note 2:	Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.
Note 3:	Assumes ALL project funds (contract, SIOH, contingency, etc) are obligated NLT 6 months prior to project end
Note 4	Assumes contract award in AUG 25 and contract completion OCT 27; duration 27 months.
Note 5	Assumes Agent will retain 1% of project obligations for a final payment

METC - Barracks/Ships/Dorms #1, Inc, JBSA-Fort Sam Houston



1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION LAUGHLIN AIR FORCE BASE, TEXAS				4. COMMAND AIR EDUCATION AND TRAINING COMMAND			5. AREA CONSTRUCTION COST INDEX 1.06				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30 SEP 23		348	443	1,430	533	0	0	0	0	0	2,754
b. END FY		348	443	1,430	533	0	0	0	0	0	2,754
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										5,426	
b. INVENTORY TOTAL AS OF 30 SEP 23										5,631,362.00	
c. AUTHORIZATION NOT YET IN INVENTORY										0.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										56,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										194,450.00	
h. GRAND TOTAL										5,881,812.00	
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			
171-212	T-7A GROUND BASED TRAINING SYSTEM FACILITY			3,169 SM	38,000	09/22	01/24				
171-625	T-7A UNIT MAINTENANCE TRAINING FACILITY			1,125 SM	18,000	09/22	01/24				
9. FUTURE PROJECTS N/A											
10. MISSION OR MAJ OR FUNCTIONS Laughlin Air Force Base's (LAFB) command is the 47th Flying Training Wing (FTW). The Wing is composed of three Groups and the Maintenance Directorate, 15 Squadrons including 5 flying squadrons. There are also tenant units on base including the Air Force Office of Special Investigations and the United States Department of Homeland Security. Currently, the 47th FTW conducts specialized undergraduate pilot training (SUPT) for the USAF, Air Force Reserve, Air National Guard, and allied nation air forces using the T-1A, T-6A, and T-38C aircraft. As one of only three SUPT programs in the USAF, LAFB is instrumental in providing pilots that support the mission of the Air Force. LAFB has a long history of pilot training of various aircraft in the then U.S. Army Air Corps and now with the USAF, and it continues to be at the forefront of aviation training. LAFB provides quality training to produce the finest combat-ready pilots, ensuring global reach for America.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024			
3. INSTALLATION AND LOCATION LAUGHLIN AIR FORCE BASE TEXAS			4. PROJECT TITLE T-7A GROUND BASED TRAINING SYSTEM FACILITY					
5. PROGRAM ELEMENT 84701F		6. CATEGORY CODE 171-212	7. AF PROJECT NUMBER MXDP193005		8. PROJECT COST (\$000) 38,000			
9. COST ESTIMATES								
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITY								30,726
FLIGHT SIMULATOR TRAINING (171-212)					SM	3,169	9,617	(30,476)
CYBERSECURITY OF FACILITY-RELATED CTRL SYS					LS			(250)
SUPPORTING FACILITIES								3,515
UTILITIES					LS			(1,128)
ROADS, SIDEWALKS, AND PARKING					LS			(1,815)
SITE IMPROVEMENTS					LS			(397)
COMMUNICATIONS					LS			(33)
PRIVATIZED UTILITIES SERVICE AND CONNECTION					LS			(142)
SUBTOTAL								34,241
CONTINGENCY (5.00%)								1,712
TOTAL CONTRACT COST								35,953
SUPERVISION, INSPECTION & OVERHEAD (6.50%)								2,337
TOTAL REQUEST								38,290
TOTAL REQUEST (ROUNDED)								38,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(31,918)
10. DESCRIPTION OF PROPOSED CONSTRUCTION								
Construct a facility for housing a ground-based training simulator system, which consists of: simulators, training devices, computer-based training systems, and academics. The facility will utilize conventional design and construction methods to accommodate the mission of the Laughlin Air Force Base's student pilot training. The construction includes a one-story steel framed structure with a slab-on-grade reinforced concrete foundation, brick and insulated metal panel exterior walls, and both a standing seam metal and low-slope roof system. Facility areas will include administration offices with supporting functions, classrooms, brief/debrief rooms, and storage space for T-7A pilot flight simulator training. Additionally, high-bay simulator bays are needed to accommodate the appropriate clearances for the three Aircrew Training Device categories: Weapon Systems Trainer, Operational Flight Trainer and Unit Training Device. Supporting facilities include all utilities, site improvements, pavements and site preparations necessary to make a complete and usable facility. Privatized utility connection fees are included in their respective supporting facilities line item								

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION LAUGHLIN AIR FORCE BASE TEXAS		4. PROJECT TITLE T-7A GROUND BASED TRAINING SYSTEM FACILITY		
5. PROGRAM ELEMENT 84701F	6. CATEGORY CODE 171-212	7. AF PROJECT NUMBER MXDP193005	8. PROJECT COST (\$000) 38,000	
<p>DESCRIPTION OF PROPOSED CONSTRUCTION: (CONTINUED) for electrical connections to commercial power. Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010-01.1</p> <p>Air Conditioning: 135 Tons</p>				
11. REQ: 3,169 m2 ADQT: NONE SUBSTD: NONE				
<p>PROJECT: T-7A GROUND BASED TRAINING SYSTEM FACILITY</p>				
<p>REQUIREMENT: Facility is needed to support all essential T-7A flight simulator training. Headquarters Air Education and Training Command is engaged in a \$20B major acquisition effort to re-capitalize its aging fleet of 430 T-38C aircraft and associated training systems. The T-38C is used in Air Education Training Command's Specialized Undergraduate Pilot Training program which provides advanced training for student pilots selected for fighter and bomber assignments. These systems are currently located at five existing AETC bases and will be replaced with the T-7A system comprised of 350 total aircraft. This project provides a facility to house specialized simulator equipment and classrooms for instructors and students to receive training on T-7A aircraft systems. The improved fidelity and aerodynamic modeling required in the Ground Based Training System devices will enable better training and allow some tasks to be moved from flight training (in live aircraft) to Aircrew Training Devices (simulators). More capable aircraft and Aircrew Training Devices will provide better opportunities to move flight training from the Formal Training Units into Specialized Undergraduate Pilot Training and Introduction to Fighter Fundamentals, thereby reducing the high cost of flight hours in fifth-generation aircraft normally required to develop experienced pilots. Overall, this facility will improve training efficiency and reduce costs in flight-hours, producing a better trained pilot in less time. This is not a tenant or supported service requirement.</p>				
<p>CURRENT SITUATION: Currently, there is one existing Flight Simulator Facility, Building 328, the facility is at full capacity for pilot training operations and does not contain available space to accommodate simulator bays and associated training spaces to meet the new mission's requirements, which are scheduled to begin April of 2029.</p> <p>Maintaining status quo would result in negative impacts to the T-7A pilot simulator training mission. The installation does not have a single facility that is adequate or large enough to fulfill the requirement making the use of other facilities on base non-viable. There are no existing facilities that can be adequately renovated to meet the new mission's flexibility needs or configuration requirements of the specialized equipment, and an addition is not easily</p>				

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION LAUGHLIN AIR FORCE BASE TEXAS		4. PROJECT TITLE T-7A GROUND BASED TRAINING SYSTEM FACILITY		
5. PROGRAM ELEMENT 84701F	6. CATEGORY CODE 171-212	7. AF PROJECT NUMBER MXDP193005	8. PROJECT COST (\$000) 38,000	
<p>CURRENT SITUATION: (CONTINUED) achievable due to site constraints of the existing flight simulator and training facilities. Leased or contractor-owned/operated facilities will not meet the configuration requirements or permanent nature of the T-7A flight simulator mission and is a non-viable option. New construction is determined to be the only method possible to accomplish the objective.</p> <p>IMPACT IF NOT PROVIDED: If not provided, an adequate Flight Simulator Facility will not be available for pilots to train and maintain proficiency in operational tactics development for the T-7A aircraft. This project provides critical real-world mission rehearsal and training for T-7A pilots. As the aircraft transitions from T-38C to T-7A, existing assets are not designed to accommodate the change in aircraft and a new facility must be provided by the time of the first T-7A aircraft arrives at Laughlin Air Force Base in April 2031. A lack of ability to train on the simulators affects the overall operational capability of the warfighter.</p> <p>The Ground Based Training System facility timeline is driven by arrival of the first simulator and a beneficial occupancy date of January 2029.</p> <p>ADDITIONAL: This project meets the criteria/scope in Department of the Air Force Manual 32-1084, Standard Facility Requirements. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New construction is the only viable option to meet this requirement. A formal economic analysis waiver is in progress. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from United States Corps of Engineers. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. This project was included in the Fiscal Year 2024 future-years' defense plan in Fiscal Year 2025. The construction growth offset for this requirement is 34,111 square feet.</p> <p>47th Civil Engineer Squadron, Base Civil Engineer: 830-298-5252.</p> <p>Flight Simulator Training: 3,169 Square Meter = 34,111 Square Feet.</p>				

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION LAUGHLIN AIR FORCE BASE TEXAS	4. PROJECT TITLE T-7A GROUND BASED TRAINING SYSTEM FACILITY
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5. PROGRAM ELEMENT 84701F	6. CATEGORY CODE 171-212	7. AF PROJECT NUMBER MXDP193005	8. PROJECT COST (\$000) 38,000
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ADDITIONAL: (CONTINUED)

JOINT USE CERTIFICATION: Mission Requirements, operational considerations, and location are incompatible with use by other components.

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION LAUGHLIN AIR FORCE BASE TEXAS	4. PROJECT TITLE T-7A GROUND BASED TRAINING SYSTEM FACILITY
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5. PROGRAM ELEMENT 84701F	6. CATEGORY CODE 171-212	7. AF PROJECT NUMBER MXDP193005	8. PROJECT COST (\$000) 38,000
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12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Type of Design	Design-bid-build
(b) Date Design Started	01-SEP-22
(c) Parametric Cost Estimating Used to Develop Costs	YES
(d) Percent Complete as of 01 JAN 2024	100%
(e) Date 35% Designed	01-DEC-22
(f) Date Design Complete	01-JAN-24
(g) Energy Study/Life-cycle analysis was performed	YES
(2) Basis:	
(a) Standard or Definitive Design	NO
(3) Total Design Cost (c) = (a)+(b) or (d)+(e)	(\$000)
(a) Production of Plans and Specifications	1,799
(b) All Other Design Costs	1,863
(c) Total	3,662
(d) Contract	3,007
(e) In-house	655
(4) Construction Contract Award	2025-MAR
(5) Construction Start	2025-APR
(6) Construction Completion	2027-NOV

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

<u>Equipment Nomenclature</u>	<u>Procuring Approp</u>	<u>Fiscal Year Appropriated or Requested</u>	<u>Cost(\$000)</u>
FURNITURE FIXTURE & EQUIPMENT	3080	2027	2,869
MISSION EQUIPMENT	3080	2026	29,049

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024			
3. INSTALLATION AND LOCATION LAUGHLIN AIR FORCE BASE TEXAS			4. PROJECT TITLE T-7A UNIT MAINTENANCE TRAINING FACILITY					
5. PROGRAM ELEMENT 84701F		6. CATEGORY CODE 171-625	7. AF PROJECT NUMBER MXDP193002		8. PROJECT COST (\$000) 18,000			
9. COST ESTIMATES								
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITY								13,008
HIGH-BAY TECHNICAL TRAINING (171-625)					SM	1,125	11,340	(12,758)
CYBERSECURITY OF FACILITY-RELATED CTRL SYS					LS			(250)
SUPPORTING FACILITIES								3,174
UTILITIES					LS			(1,304)
ROADS, SIDEWALKS, AND PARKING					LS			(522)
SITE IMPROVEMENTS					LS			(645)
PRIVATIZED UTILITY CONNECT FEE					LS			(142)
COMMUNICATIONS					LS			(561)
SUBTOTAL								16,182
CONTINGENCY (5.00%)								809
TOTAL CONTRACT COST								16,991
SUPERVISION, INSPECTION & OVERHEAD (6.50%)								1,104
TOTAL REQUEST								18,095
TOTAL REQUEST (ROUNDED)								18,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(21,068)
10. DESCRIPTION OF PROPOSED CONSTRUCTION								
<p>Construct an aircraft maintenance training facility. The facility will utilize conventional design and construction methods to accommodate the mission of Laughlin Air Force Base's annual maintenance training program. The construction includes a one-story steel framed structure with a slab-on-grade reinforced concrete foundation, and brick and metal panel exterior walls. The roof consists of low-slope roofing over rigid insulation. Facility areas will include administration offices with supporting functions, classrooms, tool crib, communications room, and hi-bay lab spaces to accommodate a seat and canopy, and an avionics/cockpit trainer. Supporting facilities include all utilities, site improvements, pavements, and site preparations necessary to make a complete and useable facility. Privatized utility connection fees are included in their respective supporting facilities line item for electrical connections to commercial power. Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense</p>								

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION LAUGHLIN AIR FORCE BASE TEXAS			4. PROJECT TITLE T-7A UNIT MAINTENANCE TRAINING FACILITY		
5. PROGRAM ELEMENT 84701F		6. CATEGORY CODE 171-625	7. AF PROJECT NUMBER MXDP193002	8. PROJECT COST (\$000) 18,000	
<p>DESCRIPTION OF PROPOSED CONSTRUCTION: (CONTINUED) antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 25 Tons</p>					
11. REQ: 1,125 m2 ADQT: NONE SUBSTD: NONE					
<p>PROJECT: T-7A UNIT MAINTENANCE TRAINING FACILITY</p> <p>REQUIREMENT: Facility is needed to support all essential maintenance training of T-7A aircraft. Headquarters Air Education and Training Command is engaged in a \$20B major acquisition effort to re-capitalize its aging fleet of 430 T-38C aircraft and associated training systems. The T-38C is used in Air Education and Commands' Specialized Undergraduate Pilot Training program which provides advanced training for student pilots selected for fighter and bomber assignments. These systems are currently located at five existing Air Education Training and Command bases and will be replaced with the T-7A system comprised of 350 total aircraft. This project provides a facility to house specialized maintainer equipment and classrooms for instructors and students to receive training on T-7A aircraft systems.</p> The T-7A will utilize the two-level maintenance (organizational and depot) concept for all aircraft (to include engines) and existing intermediate level maintenance may be utilized for supporting sub-systems (e.g., wheel and tire build, nondestructive inspection, fabrication). The Unit Maintenance Training Facility is part of the larger Maintenance Training System Acquisition, which will include a Centralized Training Facility at Joint Base San Antonio-Randolph, and smaller capacity Unit Maintenance Training Facilities at the other Air Education and Training Command T-7A bases. The Unit Maintenance Training Facilities will provide prerequisite training for attendance at the Centralized Training Facilities and will also support recurring and continuation training for all aircraft maintainers. This is not a tenant or supported service requirement. <p>CURRENT SITUATION: Currently, there are no existing Unit Maintenance Training Facilities at Laughlin AFB to accommodate training bays or classroom spaces which meet the new mission's requirements. Maintaining status quo would result in negative impacts to the T-7A maintainer training mission. The installation does not have a single facility that is adequate or large enough to fulfill the requirement making the use of other facilities in the area non-viable. There are no existing facilities that can be adequately renovated to meet the new mission's flexibility needs or configuration requirements of the specialized equipment, and an addition is not possible since no facilities for unit maintenance training exist. Leased or contractor owned/operated facilities will not meet the configuration requirements or permanent nature of the T-7A maintainer training mission and is a non-viable option. New construction is determined to be the only method possible to</p>					

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION LAUGHLIN AIR FORCE BASE TEXAS		4. PROJECT TITLE T-7A UNIT MAINTENANCE TRAINING FACILITY		
5. PROGRAM ELEMENT 84701F	6. CATEGORY CODE 171-625	7. AF PROJECT NUMBER MXDP193002	8. PROJECT COST (\$000) 18,000	
<p>CURRENT SITUATION: (CONTINUED) accomplish the objective.</p> <p>IMPACT IF NOT PROVIDED: Without this project, the required T-7A maintenance training capabilities will not be available causing delays in the training pipeline. Workarounds do not allow the squadron to train together and significantly impact the training mission required to support the Air Force T-7A Maintenance Training program. The Unit Maintenance Training facility timeline is driven by a beneficial occupancy date of November 2028 and first aircraft arrival at Laughlin in April 2031.</p> <p>ADDITIONAL: This project meets the criteria/scope in Department of the Air Force Manual 32-1084, Standard Facility Requirements. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New construction is the only viable option to meet this requirement. A formal economic analysis waiver is in progress. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from United States Corps of Engineers. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. This project was included in the Fiscal Year 2024 future-years' defense plan in Fiscal Year 2025. The construction growth offset for this requirement is 12,109 square feet.</p> <p>47th Civil Engineer Squadron, Base Civil Engineer: 830-298-5252. High Bay Technical Training: 1,125 Square Meter = 12,109 Square Feet.</p> <p>JOINT USE CERTIFICATION: Mission Requirements, operational considerations, and location are incompatible with use by other components.</p>				

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION LAUGHLIN AIR FORCE BASE TEXAS	4. PROJECT TITLE T-7A UNIT MAINTENANCE TRAINING FACILITY
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5. PROGRAM ELEMENT 84701F	6. CATEGORY CODE 171-625	7. AF PROJECT NUMBER MXDP193002	8. PROJECT COST (\$000) 18,000
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12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Type of Design	Design-bid-build
(b) Date Design Started	01-SEP-22
(c) Parametric Cost Estimating Used to Develop Costs	YES
(d) Percent Complete as of 01 JAN 2024	100%
(e) Date 35% Designed	01-DEC-22
(f) Date Design Complete	01-JAN-24
(g) Energy Study/Life-cycle analysis was performed	YES

(2) Basis:

(a) Standard or Definitive Design	NO
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(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)

(a) Production of Plans and Specifications	569
(b) All Other Design Costs	919
(c) Total	1,488
(d) Contract	1,324
(e) In-house	164

(4) Construction Contract Award	2025-MAR
(5) Construction Start	2025-APR
(6) Construction Completion	2027-NOV

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

<u>Equipment Nomenclature</u>	<u>Procuring Approp</u>	<u>Fiscal Year Appropriated or Requested</u>	<u>Cost (\$000)</u>
FURNITURE FIXTURES & EQUIPMENT	3080	2027	504
MISSION EQUIPMENT	3080	2026	20,564

1. COMPONENT AIR FORCE		FY <u>2025</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION HILL AIR FORCE BASE, UTAH				4. COMMAND AIR FORCE MATERIEL COMMAND			5. AREA CONSTRUCTION COST INDEX 1.09				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30 SEP 23		762	4,996	13,175	0	0	0	2	40	1,353	20,328
b. END FY		860	5,218	14,123	0	0	0	31	33	1,375	21,640
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										21,581	
b. INVENTORY TOTAL AS OF 30 SEP 23										35,400,339.00	
c. AUTHORIZATION NOT YET IN INVENTORY										292,500.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										258,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										250,000.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										598,000.00	
g. REMAINING DEFICIENCY										3,770,700.00	
h. GRAND TOTAL										40,569,539.00	
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				
211-116	T-7A Depot Maintenance Complex, Inc		28,038 SM		50,000	05/22	05/23				
9. FUTURE PROJECTS											
211-116 T-7A Depot Maintenance Complex, Inc (28,038 SM/\$208,000)											
211-152 F-35 Maintenance Facility, Ph 1 (28,709/\$250,000)											
211-152 F-35 Composite Repair & Training Fac, Ph 1 (20,930 SM/\$177,000)											
211-152 F-35 Canopy Repair Facility (6,968 SM/\$59,000)											
211-116 F-35 Radar Cross Section Test Facility (7,565 SM/\$115,000)											
211-152 F-35 Composite Repair & Training Fac, Ph 2 (TBD/\$247,000)											
10. MISSION OR MAJ OR FUNCTIONS											
Hill Air Force Base is home to Air Force Materiel Command's 75th Air Base Wing, host wing, providing installation support for the Ogden Air Logistics Complex, Air Force Life Cycle Management Center, Air Force Nuclear Weapons Center, Air Force active duty 388th Fighter Wing (F-35A) and Reserve 419th Fighter Wing with more than 50 mission partners. Air Force Life Cycle Management Center provides the latest in command and control and information systems for various weapons platforms including the F-16, F-35, HH-60, E-3 Airborne Warning and Control System and E-8 Joint Surveillance Target Attack Radar System; an Air Force Research Laboratory research site location for the space vehicles directorate; an air base group and recruiting group. The installation has support responsibility for the operation of the Utah Test and Training Range.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES											
N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024			
3. INSTALLATION AND LOCATION HILL AIR FORCE BASE UTAH			4. PROJECT TITLE T-7A DEPOT MAINTENANCE COMPLEX, INC					
5. PROGRAM ELEMENT 84701F		6. CATEGORY CODE 211-116	7. PROJECT NUMBER KRSM183007		8. PROJECT COST (\$000) Auth: 258,000 Appr: 50,000			
9. COST ESTIMATES								
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES								205,587
HANGAR, MAINTENANCE DEPOT (211-116)					SM	28,038	6,815	(191,079)
SHOP, AIRCRAFT GENERAL PURPOSE (211-152)					SM	1,124	8,435	(9,481)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS					LS			(5,027)
SUPPORTING FACILITIES								17,073
UTILITIES					LS			(5,659)
SITE PREPARATION					LS			(2,082)
SITE IMPROVEMENTS					LS			(9,082)
PRIVATIZED UTILITIES SERVICE AND CONNECTION					LS			(250)
SUBTOTAL								222,660
CONTINGENCY (5.00%)								11,133
TOTAL CONTRACT COST								233,793
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)								15,197
DESIGN/BUILD - DESIGN COST (4.00% OF SUBTOTAL)								8,906
TOTAL REQUEST								257,896
TOTAL REQUEST (ROUNDED)								258,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(32,548)
10. DESCRIPTION OF PROPOSED CONSTRUCTION								
<p>Construct a two-story hangar maintenance facility and a one-story egress facility for depot-level repairs for the new T-7 advanced pilot trainer campus. The large hangar maintenance facility will be located south of the existing F-22 facilities on the east side of the base adjacent to Foulois Road. The egress facility will be located east of Foulois Road across from the T-7 maintenance facility. Major functional components for the maintenance facility include 16 maintenance docks; engine storage and repair; equipment storage; blast booths and blast prep areas; paint booths and paint prep areas; air filtration system; fuel dock; pre-flight testing; harness, fabrication cell, hydraulics, machine, parts, stencil, and transportation shops; life support; material inventory control; hazardous waste storage; software integration lab; showers and locker rooms; administrative office space; and shipping & receiving dock. Major functional components for the egress facility include canopy storage and repair for 16 canopies, seat storage and repair for 32 seats, staging and storage, common area, and office space. The project will include utilities, pavements, parking, site preparation, site improvements and all necessary supporting facilities for two complete and usable facility. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010-01.</p> <p>Air Conditioning: 500 Tons</p>								

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION HILL AIR FORCE BASE UTAH		4. PROJECT TITLE T-7A DEPOT MAINTENANCE COMPLEX, INC		
5. PROGRAM ELEMENT 84701F	6. CATEGORY CODE 211-116	7. PROJECT NUMBER KRSM183007	8. PROJECT COST (\$000) Auth: 258,000 Appr: 50,000	
11. REQ: 28,038 SM ADQT: 0 SUBSTD: 0				
<p>PROJECT: Construct a two-story hangar maintenance facility with administration area and a one-story egress facility for the new T-7 advanced pilot trainer campus.</p>				
<p>REQUIREMENT: Provide a depot maintenance hangar and egress facility for support of the new T-7 advanced pilot trainer aircraft. Currently no facilities on Hill AFB can support the incoming T-7 workload. The intent is for a 250 person maintenance crew to support maintenance functions for a 351 aircraft program with an Aircraft Initial Operating Capability by 2024. The Initial Operating Capability of T-7 Advanced Pilot Trainer Depot-Level Maintenance and Modification Facilities are required by 2028. The aircraft Full Operational Capability is anticipated to be 2034. This is not a tenant or supported service requirement.</p>				
<p>CURRENT SITUATION: The Air Force will replace the T-38 Talon undergraduate pilot trainer with the T-7 advanced pilot trainer for 5th generation aircraft. Hill AFB will perform depot-level maintenance on the aircraft. All existing maintenance space on Hill AFB is currently occupied due to unexpected life extensions of the A-10 and F-16 workload and increasing F-35 workload necessitates a separate advanced pilot trainer campus.</p>				
<p>IMPACT IF NOT PROVIDED: Hill AFB will not be able to perform depot-level maintenance on the Air Force's new advanced pilot trainer for 5th generation aircraft. The T-7 advanced pilot trainer workload will have to be performed by contract, moved to another location, or existing A-10/F-16/F-22/F-35 workloads will have to be move to another location, all of which are cost prohibitive. Should the A-10/F-16 workload be moved, this would provide additional hangar space for advanced pilot trainer work.</p>				
<p>ADDITIONAL: This project meets the criteria/scope in Department of the Air Force Manual 32-1084, Standard Facility Requirements. A Waiver to an Economic Analysis has been approved for this project. The project will comply with all applicable Department of Defense, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from United States Army Corps of Engineers. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of</p>				

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION HILL AIR FORCE BASE UTAH		4. PROJECT TITLE T-7A DEPOT MAINTENANCE COMPLEX, INC	
5. PROGRAM ELEMENT 84701F	6. CATEGORY CODE 211-116	7. PROJECT NUMBER KRSM183007	8. PROJECT COST (\$000) Auth: 258,000 Appr: 50,000
<p>Unified Facility Criteria 1-200-02 is partially compliant or not applicable. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. This project does not fall within or partly within the 100-year flood plain. This project was included in the Fiscal Year 2024 future years' defense plan in Fiscal Year 2025. The construction growth offset for this requirement is 313,897 square feet.</p> <p>75 Wing Base Civil Engineer: (801) 777-7505</p> <p>HANGAR, MAINTENANCE DEPOT: 28,038 SM = 301,798 Square Feet; SHOP, AIRCRAFT GENERAL PURPOSE: 1,124 SM = 12,099 Square Feet.</p> <p>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 Air Force requirements.</p>			

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION HILL AIR FORCE BASE UTAH		4. PROJECT TITLE T-7A DEPOT MAINTENANCE COMPLEX, INC		
5. PROGRAM ELEMENT 84701F	6. CATEGORY CODE 211-116	7. PROJECT NUMBER KRSM183007	8. PROJECT COST (\$000) Auth: 258,000 Appr: 50,000	
12. SUPPLEMENTAL DATA:				
a. Estimated Design Data:				
(1) Status:				
(a) Type of Design			Design-Build	
(b) Date Design Started			01-MAY-22	
(c) Parametric Cost Estimating Used to Develop Costs			YES	
(d) Percent Complete as of 01 JAN 2024			100%	
(e) Date 35% Designed			01-JUL-22	
(f) Date Design Complete			01-MAY-23	
(g) Energy Study/Life-cycle analysis was performed			YES	
(2) Basis:				
(a) Standard or Definitive Design			NO	
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)				
(a) Production of Plans and Specifications			15,480	
(b) All Other Design Costs			7,740	
(c) Total			23,220	
(d) Contract			19,350	
(e) In-house			3,870	
(4) Construction Contract Award			2025-APR	
(5) Construction Start			2025-MAY	
(6) Construction Completion			2028-APR	
b. Equipment associated with this project provided from other appropriations:				
<u>EQUIPMENT NOMENCLATURE</u>	<u>PROCURING APPROP</u>	<u>FISCAL YEAR</u> <u>APPROPRIATED</u> <u>OR REQUESTED</u>	<u>COST(\$000)</u>	
FURNITURE FIXTURES & EQUIPMENT	3080	2027	32,548	
c. Authorization and Appropriation Summary:				
	Authorization	Auth of Approp	Appropriation	
	\$(000)	\$(000)	\$(000)	
FY2025 Budget Request	258,000	50,000	50,000	
Future Request	0	208,000	208,000	
Total	258,000		258,000	

Spend Plan

CAO: 04-Dec-23

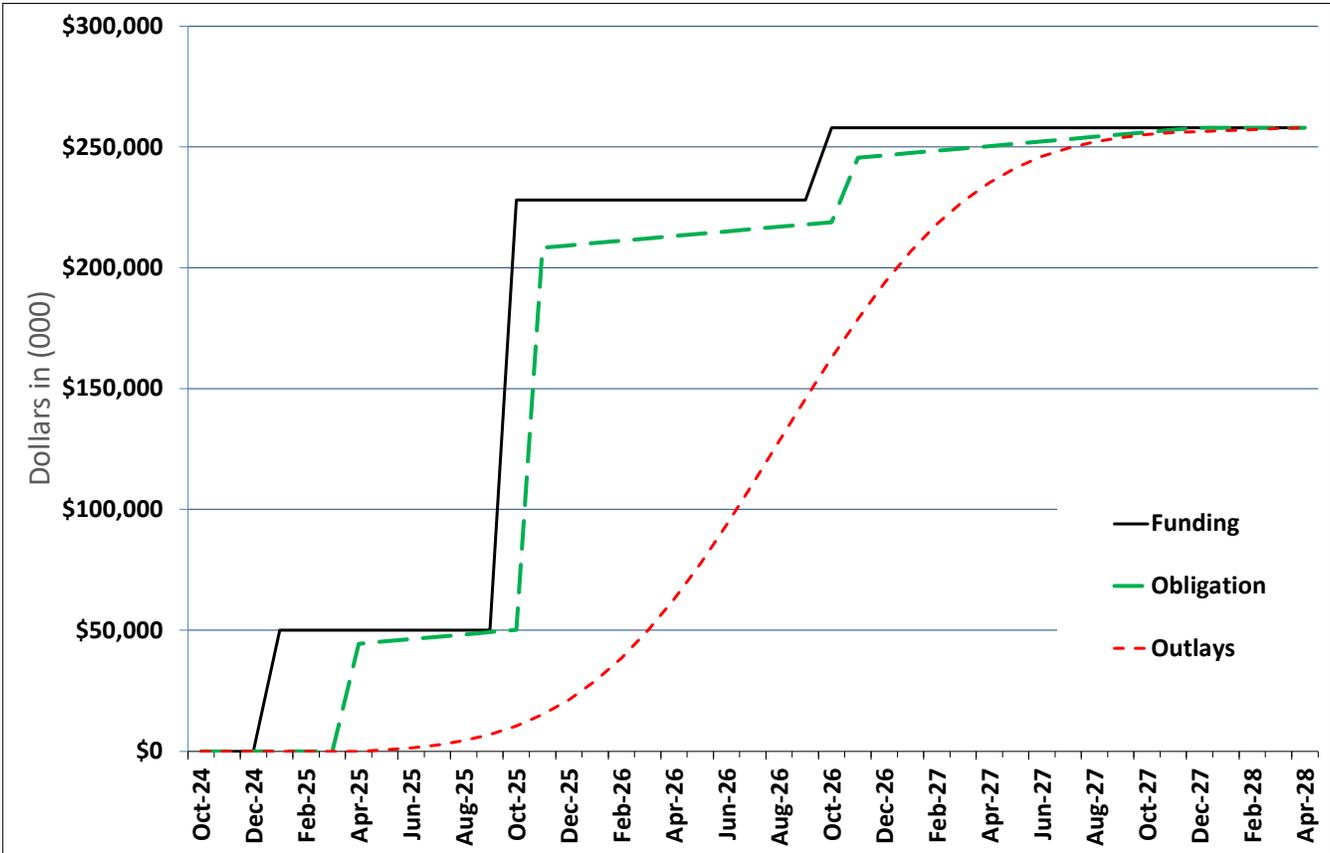
Project Title:	T-7A Depot Maintenance Complex, Inc
Installation:	Hill AFB, UT
Program Year:	2025
Project #	KRSM183007

All Cost in thousands

Chart Begin Oct-24	FUNDING (note 1)		OBLIGATION (note 2-3)		OUTLAYS (note 4-5)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-24	-	-	-	-	-	-
Nov-24	-	-	-	-	-	-
Dec-24	-	-	-	-	-	-
Jan-25	50,000	50,000	-	-	-	-
Feb-25	-	50,000	-	-	-	-
Mar-25	-	50,000	-	-	-	-
Apr-25	-	50,000	44,413	44,413	-	-
May-25	-	50,000	961	45,374	525	525
Jun-25	-	50,000	961	46,335	813	1,338
Jul-25	-	50,000	961	47,296	1,225	2,563
Aug-25	-	50,000	961	48,257	1,792	4,354
Sep-25	-	50,000	961	49,218	2,545	6,899
Oct-25	178,000	228,000	961	50,179	3,511	10,410
Nov-25	-	228,000	158,109	208,288	4,703	15,113
Dec-25	-	228,000	961	209,249	6,119	21,232
Jan-26	-	228,000	961	210,210	7,733	28,965
Feb-26	-	228,000	961	211,171	9,490	38,454
Mar-26	-	228,000	961	212,132	11,310	49,764
Apr-26	-	228,000	961	213,094	13,091	62,855
May-26	-	228,000	961	214,055	14,716	77,570
Jun-26	-	228,000	961	215,016	16,065	93,635
Jul-26	-	228,000	961	215,977	17,033	110,668
Aug-26	-	228,000	961	216,938	17,538	128,207
Sep-26	-	228,000	961	217,899	17,538	145,745
Oct-26	30,000	258,000	961	218,860	17,033	162,778
Nov-26	-	258,000	26,648	245,508	16,065	178,843
Dec-26	-	258,000	961	246,469	14,716	193,558
Jan-27	-	258,000	961	247,430	13,091	206,649
Feb-27	-	258,000	961	248,391	11,310	217,959
Mar-27	-	258,000	961	249,352	9,490	227,448
Apr-27	-	258,000	961	250,313	7,733	235,181
May-27	-	258,000	961	251,274	6,119	241,300
Jun-27	-	258,000	961	252,235	4,703	246,004
Jul-27	-	258,000	961	253,196	3,511	249,514
Aug-27	-	258,000	961	254,157	2,545	252,059
Sep-27	-	258,000	961	255,118	1,792	253,850
Oct-27	-	258,000	961	256,079	1,225	255,075
Nov-27	-	258,000	960	257,039	813	255,889
Dec-27	-	258,000	960	257,999	423	256,312
Jan-28	-	258,000	-	257,999	422	256,734
Feb-28	-	258,000	-	257,999	422	257,156
Mar-28	-	258,000	-	257,999	422	257,578
Apr-28	-	258,000	-	257,999	422	258,000

Notes	
Note 1:	Assumes initial appropriation is enacted by Congress Jan FY 2025.
Note 2:	Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.
Note 3:	Assumes ALL project funds (contract, SIOH, contingency, etc) are obligated NLT 6 months prior to project end
Note 4	Assumes contract award in APR 2025 and contract completion APR 2028; duration 36 months.
Note 5	Assumes Agent will retain 1% of project obligations for a final payment

T-7A Depot Maintenance Complex, Inc, Hill AFB, UT



1. COMPONENT AIR FORCE		FY 25 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION JOINT BASE LANGLEY-EUSTIS, VIRGINIA				4. COMMAND AIR COMBAT COMMAND			5. AREA CONSTRUCTION COST INDEX 1.01				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30 SEP 23		1,840	8,734	3,175	0	0	0	0	0	0	13,749
b. END FY		1,840	8,734	3,175	0	0	0	0	0	974	14,723
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										12,270	
b. INVENTORY TOTAL AS OF 30 SEP 23										6,881,324.00	
c. AUTHORIZATION NOT YET IN INVENTORY										19,500.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										75,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										1,178,500.00	
h. GRAND TOTAL										8,154,324.00	
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				
721-312	Dormitory		7,308 SM		81,000	07/22	08/24				
9. FUTURE PROJECTS N/A											
10. MISSION OR MAJOR FUNCTIONS JB Langley-Eustis, 633d ABW is an Air Force-lead mission support wing. The installation also hosts the 480th Intelligence Surveillance & Reconnaissance Wing, the 1st Fighter Wing, the 363d Intelligence Surveillance & Reconnaissance Wing, 192d Wing, and headquarters of the Air Combat Command.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024		
3. INSTALLATION AND LOCATION JOINT BASE LANGLEY-EUSTIS VIRGINIA				4. PROJECT TITLE DORMITORY			
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 721-312	7. PROJECT NUMBER MUHJ223003		8. PROJECT COST (\$000) 81,000		
9. COST ESTIMATES							
ITEM				UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES							63,019
DORMITORY AIRMAN PERMANENT PARTY (721-312)				SM	7,308	8,413	(61,482)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS				LS			(1,537)
SUPPORTING FACILITIES							9,784
UTILITIES				LS			(1,470)
SITE PREPARATION				LS			(4,750)
ROADS, SIDEWALKS, AND PARKING				LS			(1,150)
SITE IMPROVEMENTS				LS			(1,725)
COMMUNICATIONS				LS			(663)
PRIVATIZED UTILITIES SERVICE AND CONNECTION				LS			(26)
SUBTOTAL							72,803
CONTINGENCY (5.00%)							3,640
TOTAL CONTRACT COST							76,443
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)							4,969
TOTAL REQUEST							81,412
TOTAL REQUEST (ROUNDED)							81,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)							(2,671)
10. DESCRIPTION OF PROPOSED CONSTRUCTION							
<p>Construct a dormitory with all necessary spaces to house 144 enlisted personnel at Joint Base Langley. The construction includes 12 accessible rooms, compacted fill above the 100-year flood plain, reinforced concrete foundations and floor slabs, structural steel frame at building core and load bearing metal studs at building wings. The exterior walls are brick facade, precast concrete base, and limited metal panel walls and glass storefront in building core and entrances. The roof system is a structural steel frame with trusses at building wings and open web joists at building core and a standing seam metal roofing on building wings and low slope single-ply membrane roofing system on building central core. The project includes long-run outside plant communications and manhole/duct system pathway, connections to existing installation utility infrastructure, providing capacity to support facility loads. The project will include all necessary utilities, site preparation, pavements, site improvements, communication, remediation of petroleum contaminated soil within the footprint, security enhancements, area lighting, removal of utilities, and all necessary supporting work for a complete and usable facility. The facility must be able to withstand seismic and wind effects as prescribed in applicable codes and design guides. Facility will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01 General Building Requirements. This project will comply with Department of Defense anti-terrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 170 Tons</p>							

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION JOINT BASE LANGLEY-EUSTIS VIRGINIA			4. PROJECT TITLE DORMITORY		
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 721-312	7. PROJECT NUMBER MUHJ223003	8. PROJECT COST (\$000) 81,000	
11. REQ:	7,308 SM	ADQT:	0	SUBSTD:	0
<p>PROJECT: Construct a 144-personnel dormitory.</p> <p>REQUIREMENT: Additional dormitory capacity required to address current shortfall for current missions. A major Air Force objective is to provide housing conducive to their proper rest, relaxation, and personal well-being. Properly designed and furnished quarters are essential to successful accomplishment of operational and training requirements. Personnel shall be accommodated in one-person, single-bed rooms. The facilities must be sited above JBLE-Langley's 100-year flood plain in accordance with Unified Facilities Criteria 1-200-01 and 3-201-01. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: Additional permanent party dormitory is required to accommodate permanently based E-1 to E-4 personnel at JBLE-Langley. The current dormitory capacity cannot accommodate the permanent party personnel.</p> <p>IMPACT IF NOT PROVIDED: JBLE-Langley will continue to have a dormitory shortfall and there will be a severe lack of housing available to permanent party military. Additional living quarters are a basic need of any permanently based E-1 to E-4 personnel. Without adequate living quarters, the personnel will be required to live in off-base accommodations. The result will be degraded productivity, morale and career satisfaction for assigned Airmen as they will not be able to afford renting off post housing. The Formal Training Unit will not be able to fully execute its mission without the additional permanent beds.</p> <p>ADDITIONAL: This project meets the criteria/scope in Department of the Air Force Manual 32-1084, Standard Facility Requirements and the F-22A Facilities Requirements Plan. This design shall conform to criteria established in the Air Force Corporate Facilities Standard and Installation Facilities Standards and shall employ the permanent party enlisted standard design. All reasonable alternatives were considered during the development of this project to include: status quo and new construction. An approved Economic Analysis determined that New Construction was the viable alternative to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project falls within the 100-year flood plain. The risk will be mitigated by constructing the facilities and any flood susceptible facilities above the 100-year flood level. This is a non-mission critical facility. The facilities and any flood susceptible utilities will be constructed a minimum of 2 feet above the 100-year flood</p>					

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION JOINT BASE LANGLEY-EUSTIS VIRGINIA	4. PROJECT TITLE DORMITORY
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 721-312	7. PROJECT NUMBER MUHJ223003	8. PROJECT COST (\$000) 81,000
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elevation. This project was not included in the Fiscal Year 2024 future years' defense plan. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. The construction growth offset for this requirement is 78,663 square feet.

633 Air Base Civil Engineer: (757) 764-2025

DORMITORY AIRMAN PERMANENT PARTY/PCS-STUDENT: 7,308 Square Meter = 78,663 Square Feet

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 Air Force requirements.

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION JOINT BASE LANGLEY-EUSTIS VIRGINIA			4. PROJECT TITLE DORMITORY		
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 721-312	7. PROJECT NUMBER MUHJ223003	8. PROJECT COST (\$000) 81,000	
12. SUPPLEMENTAL DATA:					
a. Estimated Design Data:					
(1) Status:					
(a) Type of Design		Design-Bid-Build			
(b) Date Design Started		01-JUL-22			
(c) Parametric Cost Estimating Used to Develop Costs		YES			
(d) Percent Complete as of 01 JAN 2024		65%			
(e) Date 35% Designed		01-SEP-23			
(f) Date Design Complete		01-AUG-24			
(g) Energy Study/Life-cycle analysis was performed		YES			
(2) Basis:					
(a) Standard or Definitive Design		YES			
(b) Where Design Was Most Recently Used		Tyndall Air Force Base			
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)					
(a) Production of Plans and Specifications		5,100			
(b) All Other Design Costs		2,550			
(c) Total		7,650			
(d) Contract		6,375			
(e) In-house		1,275			
(4) Construction Contract Award		2025-FEB			
(5) Construction Start		2025-APR			
(6) Construction Completion		2027-MAY			
b. Equipment associated with this project provided from other appropriations:					
<u>EQUIPMENT NOMENCLATURE</u>		<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>	
Furniture Fixtures & Equipment		3080	2026	2,671	

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION FE WARREN AIR FORCE BASE, WYOMING				4. COMMAND AIR FORCE GLOBAL STRIKE COMMAND			5. AREA CONSTRUCTION COST INDEX 1.03				
6. PERSONNEL		(1) PERMANENT		(2) STUDENTS			(3) SUPPORTED			(4) TOTAL	
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED		CIVILIAN
a. AS OF 30 SEP 23		467	2,461	498	0	0	0	415	2,218	725	6,784
b. END FY		463	2,438	493	0	0	0	403	2,178	726	6,701
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										37,518	
b. INVENTORY TOTAL AS OF 30 SEP 23										4,327,316.00	
c. AUTHORIZATION NOT YET IN INVENTORY										279,100.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										1,581,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										400,907.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										615,240.00	
g. REMAINING DEFICIENCY										201,000.00	
h. GRAND TOTAL										7,404,563.00	
8. PROJ ECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS					
(1) CODE	(2) PROJ ECT TITLE		(3) SCOPE			(1) START		(2) COMPLETE			
212-216	GBSD Consolidated Maintenance Facility		11,959 SM		194,000	09/22		02/24			
911-146	GBSD Land Acquisition Phase 2		13,940 AC		139,000	06/23		10/23			
135-583	GBSD Utility Corridor, Inc		2,511 KM		70,000	07/23		03/24			
9. FUTURE PROJ ECTS											
149-512 GBSD LC/LF/CSB Conversions (TBD / \$400,907)											
135-583 GBSD Utility Corridor, Inc (TBD / \$1,178,000)											
212-212 GBSD LC/LF/CSB Conversions (TBD / \$94,897)											
141-911 GBSD Operations Group Facility (TBD / \$47,470)											
212-212 GBSD LC/LF/CSB Conversions (TBD / \$265,359)											
212-212 GBSD LC/LF/CSB Conversions (TBD / \$207,514)											
10. MISSION OR MAJ OR FUNCTIONS											
Francis. E. Warren Air Force Base is home to the 90th Missile Wing (MW) and Headquarters, 20th Air Force of Air Force Global Strike command. The mission of the 90th MW is to defend America with the world's premier combat ready Intercontinental Ballistic Missile (ICBM) force. The 90thMW operates 150 Minuteman III ICBMs on full alert and maintains the missile fields across a 12,600-square-mile area in Wyoming, Nebraska, and Colorado. The wing also operates 9 UH-1N Huey helicopters that perform nuclear convoy security and missile site support.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES											
N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024			
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING				4. PROJECT TITLE GBSD CONSOLIDATED MAINTENANCE FACILITY				
5. PROGRAM ELEMENT 11233F		6. CATEGORY CODE 212-216	7. PROJECT NUMBER GHLN250722		8. PROJECT COST (\$000) 194,000			
9. COST ESTIMATES								
ITEM					UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES								152,796
SHOP, MISSILE SERVICE (212-216)					SM	11,959	8,790	(105,120)
WAREHOUSE SUPPLY AND EQUIPMENT BASE (442-758)					SM	2,285	8,536	(19,505)
WEAPON SYSTEM MAINT MANAGEMENT FAC (610-129)					SM	2,408	8,725	(21,010)
TRANSPORTER/ERECTOR TEST FACILITY (214-469)					LS			(2,480)
BASE HAZARDOUS STORAGE (442-257)					SM	54	20,016	(1,081)
Total from Continuation page(s)								(3,600)
SUPPORTING FACILITIES								20,842
UTILITIES					LS			(2,033)
SITE PREPARATION					LS			(6,982)
ROADS, SIDEWALKS, AND PARKING					LS			(6,508)
SITE IMPROVEMENTS					LS			(1,630)
COMMUNICATIONS					LS			(3,397)
GENERATOR					kW	300	634	(190)
PRIVATIZED UTILITIES SERVICE AND CONNECTION					LS			(102)
SUBTOTAL								173,638
CONTINGENCY (5.00%)								8,682
TOTAL CONTRACT COST								182,320
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)								11,851
TOTAL REQUEST								194,171
TOTAL REQUEST (ROUNDED)								194,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)								(17,952)
10. DESCRIPTION OF PROPOSED CONSTRUCTION								
Construct a two-story Consolidated Maintenance Facility at F.E. Warren Air Force Base for the Ground Based Strategic Deterrent Launch Operations facility with slab-on-grade foundation, structural steel frame, insulated precast concrete walls, standing seam metal roof, and interior finishes.								
The facility will include a service shop and will house flights, engineering spaces, and lab that will support maintenance and service system area supporting air and ground equipment. A warehouse will be provided for storage, as well as a transporter/erector facility. A management facility will house all leadership offices and supporting personnel spaces. All secure areas will be constructed to Department of Defense standards and applicable criteria.								
Project includes all site preparation, utilities, communications, pavements, and site improvements to provide a complete and useable facility. Site preparation includes clearing, grubbing and fill, site demolition, and unclassified excavation. Utilities include standard domestic and fire protection, water, electrical, and sanitary sewer. Pavements include parking, pedestrian paving, fire access drives, and roadways. Site improvements include earthwork, landscaping, fencing, and exterior lighting. This project is authorized a generator and includes a privatized utility connection fee. Project will comply with Unified Facility Criteria 4-010-06, Cybersecurity of Facility-Related Control Systems. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building								

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING			4. PROJECT TITLE GBSD CONSOLIDATED MAINTENANCE FACILITY			
5. PROGRAM ELEMENT 11233F		6. CATEGORY CODE 212-216	7. PROJECT NUMBER GHLN250722		8. PROJECT COST (\$000) 194,000	
9. COST ESTIMATES (CONTINUED)						
ITEM		UM	QUANTITY	UNIT COST	COST (\$000)	
PRIMARY FACILITIES (CONTINUED)						
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS			(3,600)	
				Total	3,600	
<p>requirements. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 300 Tons</p>						
11. REQ: 11,959 SM		ADQT: 0		SUBSTD: 0		
PROJECT: Construct a GBSD Consolidated Maintenance Facility.						
REQUIREMENT: The Consolidated Maintenance Facility is required to support the GBSD missile operation and maintenance function activities without interruptions. The facility consolidates operational and maintenance activities required to perform mission activities for GBSD. The squadron and maintenance personnel require maintenance space, storage space, administrative space, and operational space. This is not a tenant or supported service requirement.						
CURRENT SITUATION: There is not a facility currently at F.E. Warren Air Force Base that can be used for this mission, as all existing facilities are fully utilized and at capacity. Current facilities do not have the ability or capacity to accommodate new support equipment, and training.						
IMPACT IF NOT PROVIDED: Currently, F.E. Warren Air Force Base does not have any facilities that will meet the new mission requirements. If the facility is not provided to meet these needs, then the mission will be delayed, and initial operational capability will not be met.						
ADDITIONAL: This project meets the criteria/scope in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards and Installation Facilities Standards but will not employ a standard facility design because there is no Air Force standard facility design for this project and there is no applicable standard design from the Air Force Civil Engineer Center. A formal economic analysis waiver is in progress and will be completed before approval of the President's Budget. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and						

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE GBSD CONSOLIDATED MAINTENANCE FACILITY	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 212-216	7. PROJECT NUMBER GHLN250722	8. PROJECT COST (\$000) 194,000
<p>construction of the project in accordance with Unified Facilities Criteria 1-200-02. This includes the preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, or when life cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. This project was included in the Fiscal Year 2024-2028 future years' defense plan FY25. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. The construction growth offset for this requirement is 179,821 square feet.</p> <p>90th Missile Wing Base Civil Engineer: 307-481-3600</p> <p>Shop, Missile Service: 11,959 SM = 128,725 Square Feet; Warehouse Supply and Equipment Base: 2,285 SM = 24,596 Square Feet; Weapons Systems Maintenance Management Facility: 2,408 SM = 25,919 Square Feet; Base Hazardous Storage: 54 SM = 581 Square Feet.</p> <p>JOINT USE CERTIFICATION: Mission requirements, operational considerations and location are incompatible with use by other components.</p>			

1. COMPONENT	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
AIR FORCE			FEBRUARY 2024
3. INSTALLATION AND LOCATION		4. PROJECT TITLE	
F.E. WARREN AIR FORCE BASE WYOMING		GBSD CONSOLIDATED MAINTENANCE FACILITY	
5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)
11233F	212-216	GHLN250722	194,000
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	01-SEP-22		
(c) Parametric Cost Estimating Used to Develop Costs	YES		
(d) Percent Complete as of 01 JAN 2024	65%		
(e) Date 35% Designed	01-MAY-23		
(f) Date Design Complete	01-FEB-24		
(g) Energy Study/Life-cycle analysis was performed	YES		
(2) Basis:			
(a) Standard or Definitive Design	NO		
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)			
(a) Production of Plans and Specifications	9,840		
(b) All Other Design Costs	4,920		
(c) Total	14,760		
(d) Contract	12,300		
(e) In-house	2,460		
(4) Construction Contract Award	2025-APR		
(5) Construction Start	2025-MAY		
(6) Construction Completion	2029-FEB		
b. Equipment associated with this project provided from other appropriations:			
<u>EQUIPMENT NOMENCLATURE</u>	<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>
Furniture, Fixtures and Equipm	3080	2027	8,345
Weapons System Equipment	3600	2027	5,000
UPS Equipment	3400	2027	232
Intrusion Detection System	3080	2027	1,122
Audio-Visual Equipment	3080	2027	3,253

Spend Plan

CAO: 04-Dec-23

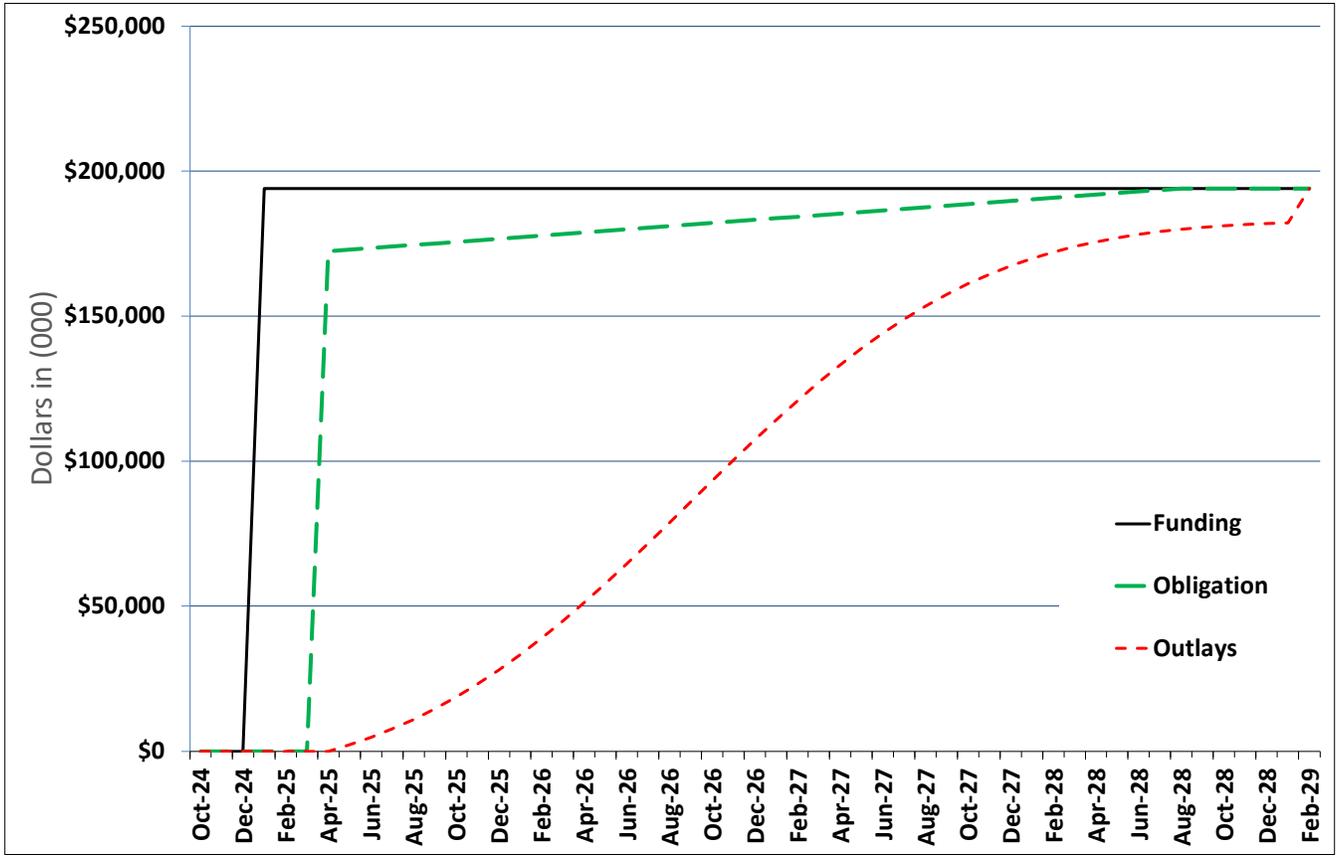
Project Title:	GBSD Consolidated Maintenance Facility
Installation:	FE Warren AFB, WY
Program Year	2025
Project #	GHLN250722

All Cost in thousands

Chart Begin Oct-24	FUNDING (note 1)		OBLIGATION (note 2-3)		OUTLAYS (note 4-5)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-24	-	-	-	-	-	-
Nov-24	-	-	-	-	-	-
Dec-24	-	-	-	-	-	-
Jan-25	194,000	194,000	-	-	-	-
Feb-25	-	194,000	-	-	-	-
Mar-25	-	194,000	-	-	-	-
Apr-25	-	194,000	172,321	172,321	-	-
May-25	-	194,000	542	172,862	2,214	2,214
Jun-25	-	194,000	542	173,404	2,543	4,757
Jul-25	-	194,000	542	173,946	2,896	7,653
Aug-25	-	194,000	542	174,488	3,270	10,923
Sep-25	-	194,000	542	175,030	3,660	14,583
Oct-25	-	194,000	542	175,572	4,062	18,645
Nov-25	-	194,000	542	176,114	4,469	23,114
Dec-25	-	194,000	542	176,656	4,873	27,987
Jan-26	-	194,000	542	177,198	5,269	33,256
Feb-26	-	194,000	542	177,740	5,648	38,904
Mar-26	-	194,000	542	178,282	6,001	44,904
Apr-26	-	194,000	542	178,824	6,322	51,226
May-26	-	194,000	542	179,366	6,602	57,828
Jun-26	-	194,000	542	179,908	6,835	64,662
Jul-26	-	194,000	542	180,450	7,015	71,677
Aug-26	-	194,000	542	180,992	7,138	78,814
Sep-26	-	194,000	542	181,534	7,200	86,014
Oct-26	-	194,000	542	182,076	7,200	93,214
Nov-26	-	194,000	542	182,618	7,138	100,351
Dec-26	-	194,000	542	183,160	7,015	107,366
Jan-27	-	194,000	542	183,702	6,835	114,201
Feb-27	-	194,000	542	184,244	6,602	120,802
Mar-27	-	194,000	542	184,786	6,322	127,124
Apr-27	-	194,000	542	185,328	6,001	133,125
May-27	-	194,000	542	185,870	5,648	138,772
Jun-27	-	194,000	542	186,412	5,269	144,041
Jul-27	-	194,000	542	186,954	4,873	148,914
Aug-27	-	194,000	542	187,496	4,469	153,383
Sep-27	-	194,000	542	188,038	4,062	157,445
Oct-27	-	194,000	542	188,580	3,660	161,105
Nov-27	-	194,000	542	189,122	3,270	164,375
Dec-27	-	194,000	542	189,664	2,896	167,272
Jan-28	-	194,000	542	190,206	2,543	169,815
Feb-28	-	194,000	542	190,748	2,214	172,028
Mar-28	-	194,000	542	191,290	1,910	173,938
Apr-28	-	194,000	542	191,832	1,634	175,572
May-28	-	194,000	542	192,374	1,386	176,958
Jun-28	-	194,000	542	192,916	1,165	178,123
Jul-28	-	194,000	542	193,458	971	179,094
Aug-28	-	194,000	542	194,000	802	179,897
Sep-28	-	194,000	-	194,000	657	180,554
Oct-28	-	194,000	-	194,000	534	181,088
Nov-28	-	194,000	-	194,000	430	181,518
Dec-28	-	194,000	-	194,000	343	181,861
Jan-29	-	194,000	-	194,000	271	182,132
Feb-29	-	194,000	-	194,000	11,868	194,000

Notes	
Note 1:	Assumes initial appropriation is enacted by Congress Jan FY 2025.
Note 2:	Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.
Note 3:	Assumes ALL project funds (contract, SIOH, contingency, etc) are obligated NLT 6 months prior to project end
Note 4	Assumes contract award in Apr 2025 and contract completion Feb 29; duration 46 months.
Note 5	Assumes Agent will retain 1% of project obligations for a final payment

GBSD Consolidated Maintenance Facility, FE Warren AFB, WY



1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING			4. PROJECT TITLE GBSD LAND ACQUISITION PHASE 2			
5. PROGRAM ELEMENT 11233F		6. CATEGORY CODE 911-146	7. PROJECT NUMBER GHLN257170		8. PROJECT COST (\$000) 139,000	
9. COST ESTIMATES						
ITEM				UM	QUANTITY	COST(\$000)
PRIMARY FACILITIES						132,500
INTERESTS IN LAND, PHASE 2, COMMUNICATIONS NETWORK				LS		(132,500)
SUPPORTING FACILITIES						
SUBTOTAL						132,500
CONTINGENCY (5.00%)						6,625
TOTAL CONTRACT COST						139,125
SUPERVISION, INSPECTION AND OVERHEAD (0.00%)						0
TOTAL REQUEST						139,125
TOTAL REQUEST (ROUNDED)						139,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
<p>Acquire temporary and permanent interests in land to support new utilities and infrastructure for the Ground Based Strategic Deterrent, also known as Sentinel, at FE Warren Air Force Base. Sentinel land acquisitions are located throughout areas in Wyoming, Nebraska, and Colorado. Project will be accomplished in alignment with the Order of Service for retrofitting and converting Minuteman III launch facilities to accept the Sentinel weapon system.</p>						
11. REQ: 13,940 AC ADQT: 0 SUBSTD: 0						
PROJECT:						
Acquisition of varied interests in real estate to support construction activities and future operations of the Ground Based Strategic Deterrent Intercontinental Ballistic Missile at F.E. Warren Air Force Base.						
REQUIREMENT:						
Acquire sufficient interests in land to support deployment of Sentinel Phase 2 Land Acquisition. Phase 2 is the final phase of a two-phase project. The initial Phase 1 project, number GHLN235615, included land acquisition for the Operational Weapon System Article and Initial Operational Capability. Acquisitions in Phase 2 include sufficient interests in land to support deployment of Sentinel Phase 2 Land Acquisition for utility corridors and to construct tower sites to reach wing completion milestones. Reuse of existing US Air Force owned utility corridors will substantially reduce the need for new perpetual easements. Estimated planning assumption for condemnation rates provided by United States Army Corps of Engineers Real Estate Planning Report.						
Phase 2 Easement Acquisition requires approximately 13,800 acres to support communications network. Easement widths of 16.5-feet for new perpetual easements totaling approximately 1,830 acres, and 83.5-feet for temporary construction easements adjacent to new and existing perpetual easements totaling approximately						

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE GBSD LAND ACQUISITION PHASE 2	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 911-146	7. PROJECT NUMBER GHLN257170	8. PROJECT COST (\$000) 139,000
<p>11,915 acres. Temporary easement term is 5 years in duration. The length of the agreement is largely determined by post-construction restoration activities. An additional one-acre temporary laydown yard will need to be acquired adjacent to the first 125 sites to be converted. Fee Acquisition of fourteen (14) individual, 5-acre tower sites totaling approximately 70 acres. Perpetual road easements will also need to be acquired to access tower sites.</p> <p>Federal land acquisition rules require a fair market value payment to landowners. Valuations of land are dependent upon location, real estate market conditions, state law, municipal zoning laws, and landowner documentation. Initial land valuations conducted by United States Army Corps of Engineers in Real Estate Planning Report Phase 1 valued temporary construction easements at less than \$500 an acre across the 90 Missile Wing area of operations. Additionally, land valuations must account for the economic impacts created by government activities. Furthermore, each transaction must balance the length of negotiations against the Conversion Order of Service established by Missile Alert Rate.</p> <p>CURRENT SITUATION: Current configuration of the Intercontinental Ballistic Missile field does not meet the Sentinel weapon system required to modernize the ground-based leg of the U.S. Nuclear Triad real estate must be purchased to meet weapon system requirements.</p> <p>IMPACT IF NOT PROVIDED: Intercontinental Ballistic Missile nuclear weapon modernization cannot start until real estate is purchased. Conversion of Minuteman III sites cannot begin without constructing utility corridors. Any delay to funding Phase 2 will not only impact subsequent phases of real estate transactions, but severely affect the ability of the United State Air Force to deliver an \$96B Major Defense Acquisition Program</p> <p>ADDITIONAL: All reasonable alternatives were considered during the development of this project to include status quo, reduction of weapon system requirements, and land acquisition. New land acquisition and temporary construction easements are the only viable options to meet the Sentinel weapon system requirement for the ACAT 1 program. This project was included in the Fiscal Year 2024-2029 future years' defense plan in FY25.</p> <p>90th Missile Wing Base Civil Engineer: (307) 481-3600</p> <p>JOINT USE CERTIFICATION: Mission Requirements, operational considerations, and location are incompatible with use of other components.</p>			

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING			4. PROJECT TITLE GBSD LAND ACQUISITION PHASE 2	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 911-146	7. PROJECT NUMBER GHLN257170	8. PROJECT COST (\$000) 139,000	
12. SUPPLEMENTAL DATA:				
a. Estimated Design Data:				
(1) Status:				
(a) Type of Design				N/A
(b) Date Design Started				01-JUN-23
(c) Parametric Cost Estimating Used to Develop Costs				YES
(d) Percent Complete as of 01 JAN 2024				N/A
(e) Date 35% Designed				N/A
(f) Date Design Complete				01-OCT-23
(g) Energy Study/Life-cycle analysis was performed				YES
(2) Basis:				
(a) Standard or Definitive Design				NO
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)				
(a) Production of Plans and Specifications				2,040
(b) All Other Design Costs				1,020
(c) Total				3,060
(d) Contract				2,295
(e) In-house				765
(4) Construction Contract Award				2025-APR
(5) Construction Start				2025-MAY
(6) Construction Completion				2028-AUG
b. Equipment associated with this project provided from other appropriations:				
<u>EQUIPMENT NOMENCLATURE</u>	<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>	
	NONE			

Spend Plan

CAO: 04-Dec-23

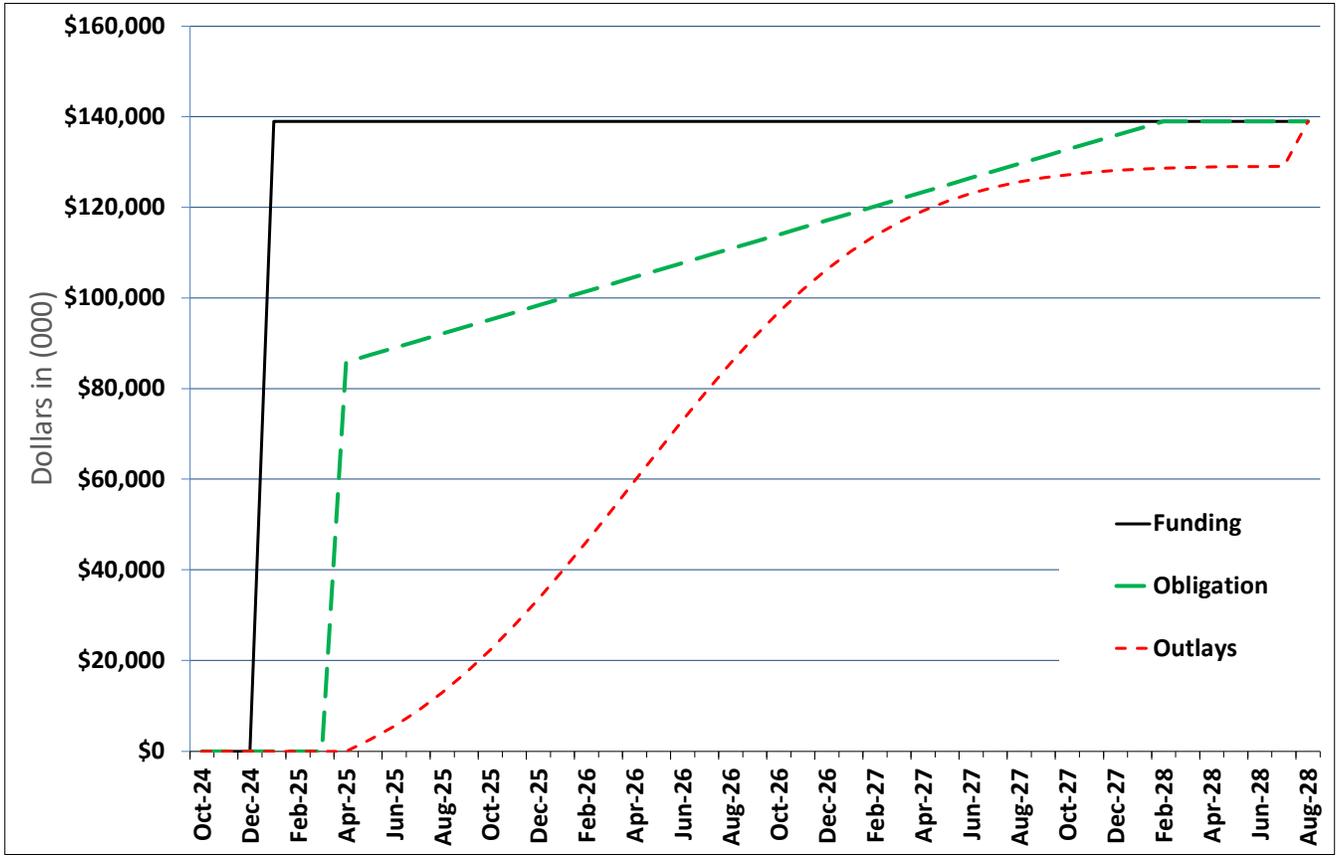
Project Title:	GBSD Land Acquisition Phase 2
Installation:	FE Warren, WY
Program Year	2025
Project #	GHLN257170

All Cost in thousands

Chart Begin Oct-24	FUNDING (note 1)		OBLIGATION (note 2-3)		OUTLAYS (note 4-5)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-24	-	-	-	-	-	-
Nov-24	-	-	-	-	-	-
Dec-24	-	-	-	-	-	-
Jan-25	139,000	139,000	-	-	-	-
Feb-25	-	139,000	-	-	-	-
Mar-25	-	139,000	-	-	-	-
Apr-25	-	139,000	85,833	85,833	-	-
May-25	-	139,000	1,564	87,396	2,524	2,524
Jun-25	-	139,000	1,564	88,960	2,975	5,500
Jul-25	-	139,000	1,564	90,524	3,454	8,954
Aug-25	-	139,000	1,564	92,088	3,951	12,905
Sep-25	-	139,000	1,564	93,651	4,452	17,357
Oct-25	-	139,000	1,564	95,215	4,943	22,300
Nov-25	-	139,000	1,564	96,779	5,406	27,707
Dec-25	-	139,000	1,564	98,343	5,826	33,532
Jan-26	-	139,000	1,564	99,906	6,184	39,716
Feb-26	-	139,000	1,564	101,470	6,467	46,184
Mar-26	-	139,000	1,564	103,034	6,664	52,847
Apr-26	-	139,000	1,564	104,598	6,764	59,611
May-26	-	139,000	1,564	106,161	6,764	66,375
Jun-26	-	139,000	1,564	107,725	6,664	73,038
Jul-26	-	139,000	1,564	109,289	6,467	79,505
Aug-26	-	139,000	1,564	110,853	6,184	85,690
Sep-26	-	139,000	1,564	112,416	5,826	91,515
Oct-26	-	139,000	1,564	113,980	5,406	96,921
Nov-26	-	139,000	1,564	115,544	4,943	101,864
Dec-26	-	139,000	1,564	117,108	4,452	106,317
Jan-27	-	139,000	1,564	118,671	3,951	110,268
Feb-27	-	139,000	1,564	120,235	3,454	113,722
Mar-27	-	139,000	1,564	121,799	2,975	116,697
Apr-27	-	139,000	1,564	123,363	2,524	119,222
May-27	-	139,000	1,564	124,926	2,110	121,332
Jun-27	-	139,000	1,564	126,490	1,738	123,070
Jul-27	-	139,000	1,564	128,054	1,410	124,480
Aug-27	-	139,000	1,564	129,618	1,127	125,607
Sep-27	-	139,000	1,564	131,181	888	126,495
Oct-27	-	139,000	1,564	132,745	689	127,183
Nov-27	-	139,000	1,564	134,309	526	127,710
Dec-27	-	139,000	1,564	135,873	396	128,106
Jan-28	-	139,000	1,564	137,436	294	128,400
Feb-28	-	139,000	1,564	139,000	215	128,615
Mar-28	-	139,000	-	139,000	155	128,769
Apr-28	-	139,000	-	139,000	110	128,879
May-28	-	139,000	-	139,000	77	128,956
Jun-28	-	139,000	-	139,000	53	129,009
Jul-28	-	139,000	-	139,000	36	129,044
Aug-28	-	139,000	-	139,000	9,956	139,000

Notes	
Note 1:	Assumes initial appropriation is enacted by Congress Jan FY 2025.
Note 2:	Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.
Note 3:	Assumes ALL project funds (contract, SIOH, contingency, etc) are obligated NLT 6 months prior to project end
Note 4:	Assumes contract award in Apr 2025 and contract completion Aug 28; duration 40 months.
Note 5:	Assumes Agent will retain 1% of project obligations for a final payment

GBSD Land Acquisition Phase 2, FE Warren AFB, WY



1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING			4. PROJECT TITLE GBSD UTILITY CORRIDOR, INC			
5. PROGRAM ELEMENT 11233F		6. CATEGORY CODE 135-583	7. PROJECT NUMBER GHLN244125		8. PROJECT COST (\$000) Auth: 1,248,000 Appr: 70,000	
9. COST ESTIMATES						
ITEM		UM	QUANTITY	UNIT COST	COST(\$000)	
PRIMARY FACILITIES					787,512	
TELEPHONE DUCT FACILITY (135-583)		km	2,511	313,625	(787,512)	
SUPPORTING FACILITIES					290,000	
SITE PREPARATION		LS			(15,000)	
SITE IMPROVEMENTS		LS			(7,500)	
COMMUNICATIONS		LS			(267,500)	
SUBTOTAL					1,077,512	
CONTINGENCY (5.00%)					53,876	
TOTAL CONTRACT COST					1,131,388	
SUPERVISION, INSPECTION AND OVERHEAD (6.50%)					73,540	
DESIGN/BUILD - DESIGN COST (4.00% OF SUBTOTAL)					43,100	
TOTAL REQUEST					1,248,028	
TOTAL REQUEST (ROUNDED)					1,248,000	
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)					(0)	
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
Construct Utility Corridor for connecting the Sentinel Missile Field Launch Facilities and Launch Centers at F.E. Warren Air Force Base. Project to include trenching, installation of conduits, communication lines, construction of pull vaults and manholes, and boring under roadways, rivers, railways, etc. and the purchase and installation of the communications media. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/ force protection requirements per Unified Facilities Criteria 4-010-01.						
11. REQ: 2,511 km		ADQT: 0		SUBSTD: 0		
PROJECT: Construct a Sentinel Utility Corridor.						
REQUIREMENT: The Sentinel Ground Based Strategic Deterrent Intercontinental Ballistic Missile system requires new utility and communication routes and connections to meet Weapon System criteria. This is not a tenant or support service requirement.						
CURRENT SITUATION: The current Intercontinental Ballistic Missile Minuteman III does not meet the requirements for the utility connections that are specific to Sentinel Ground Based Strategic Deterrent.						

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING		4. PROJECT TITLE GBSD UTILITY CORRIDOR, INC	
5. PROGRAM ELEMENT 11233F	6. CATEGORY CODE 135-583	7. PROJECT NUMBER GHLN244125	8. PROJECT COST (\$000) Auth: 1,248,000 Appr: 70,000
<p>IMPACT IF NOT PROVIDED: The Sentinel Ground Based Strategic Deterrent deployment schedule and functionality will not be met without the utilities and communication connections completed prior to the completion of Launch Facility conversions and Launch Center constructions required for this program.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facilities Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project and there is no applicable standard design from Air Force Civil Engineer Center. A waiver to an Economic analysis has been approved for this project. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as a reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project falls partially within several 100-year flood plains. The risk will be mitigated by constructing the Utility Corridor with water intrusion/control measure included within the design. This is a mission-critical facility. This project was included in the Fiscal Year 2024-2028 Future Years' Defense Plan in FY25. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. Sentinel Land Acquisition is a concurrent project and begins in FY25. Supporting Facilities cost exceeds 25% of the Primary Facilities cost due to the cost of communication fiber to support the requirement. There is no construction growth offset for this requirement.</p> <p>90th Missile Wing Base Civil Engineer: (307) 481-3600</p> <p>Telephone Duct Facility: 2,511 kilometers = 1,560 miles.</p> <p>JOINT USE CERTIFICATION: Mission Requirements, operational considerations, and location are incompatible with use by other components.</p>			

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE WYOMING			4. PROJECT TITLE GBSD UTILITY CORRIDOR, INC		
5. PROGRAM ELEMENT 11233F		6. CATEGORY CODE 135-583	7. PROJECT NUMBER GHLN244125	8. PROJECT COST (\$000) Auth: 1,248,000 Appr: 70,000	
12. SUPPLEMENTAL DATA:					
a. Estimated Design Data:					
(1) Status:					
(a) Type of Design				Design-Build	
(b) Date Design Started				01-JUL-23	
(c) Parametric Cost Estimating Used to Develop Costs				YES	
(d) Percent Complete as of 01 JAN 2024				35%	
(e) Date 35% Designed				01-SEP-23	
(f) Date Design Complete				01-MAR-24	
(g) Energy Study/Life-cycle analysis was performed				YES	
(2) Basis:					
(a) Standard or Definitive Design				NO	
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)					
(a) Production of Plans and Specifications				9,000	
(b) All Other Design Costs				4,500	
(c) Total				13,500	
(d) Contract				11,250	
(e) In-house				2,250	
(4) Construction Contract Award				2025-JUL	
(5) Construction Start				2025-AUG	
(6) Construction Completion				2030-MAY	
b. Equipment associated with this project provided from other appropriations:					
<u>EQUIPMENT NOMENCLATURE</u>		<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>	
		NONE			

Spend Plan

CAO:

27-Dec-23

Project Title:	GBSD Utility Corridor, Inc
Installation:	FE Warren AFB, WY
Program Year	2025
Project #	GHLN244125

Notes	
Note 1:	Assumes initial appropriation is enacted by Congress Jan FY 2025.
Note 2:	Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.
Note 3:	Assumes ALL project funds (contract, SIOH, contingency, etc) are obligated NLT 6 months prior to project end
Note 4	Assumes contract award in July 2025 and contract completion May 30; duration 58 months.
Note 5	Assumes Agent will retain 1% of project obligations for a final payment

All Cost in thousands

Chart Begin Oct-24	FUNDING (note 1)		OBLIGATION (note 2-3)		OUTLAYS (note 4-5)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-24	-	-	-	-	-	-
Nov-24	-	-	-	-	-	-
Dec-24	-	-	-	-	-	-
Jan-25	70,000	70,000	-	-	-	-
Feb-25	-	70,000	-	-	-	-
Mar-25	-	70,000	-	-	-	-
Apr-25	-	70,000	-	-	-	-
May-25	-	70,000	-	-	-	-
Jun-25	-	70,000	-	-	-	-
Jul-25	-	70,000	62,178	62,178	-	-
Aug-25	-	70,000	2,682	64,860	5,448	5,448
Sep-25	-	70,000	2,682	67,542	6,220	11,668
Oct-25	289,000	359,000	259,386	326,928	7,067	18,735
Nov-25	-	359,000	2,682	329,610	7,991	26,726
Dec-25	-	359,000	2,682	332,292	8,990	35,716
Jan-26	-	359,000	2,682	334,974	10,065	45,781
Feb-26	-	359,000	2,682	337,656	11,214	56,995
Mar-26	-	359,000	2,682	340,338	12,432	69,427
Apr-26	-	359,000	2,682	343,020	13,715	83,142
May-26	-	359,000	2,682	345,702	15,057	98,199
Jun-26	-	359,000	2,682	348,384	16,448	114,647
Jul-26	-	359,000	2,682	351,066	17,880	132,527
Aug-26	-	359,000	2,682	353,748	19,342	151,869
Sep-26	-	359,000	2,682	356,430	20,821	172,690
Oct-26	372,000	731,000	333,111	689,541	22,303	194,993
Nov-26	-	731,000	2,682	692,223	23,773	218,766
Dec-26	-	731,000	2,682	694,905	25,216	243,982
Jan-27	-	731,000	2,682	697,587	26,616	270,598
Feb-27	-	731,000	2,682	700,269	27,956	298,554
Mar-27	-	731,000	2,682	702,951	29,219	327,773
Apr-27	-	731,000	2,682	705,633	30,390	358,163
May-27	-	731,000	2,682	708,315	31,453	389,616
Jun-27	-	731,000	2,682	710,997	32,394	422,009
Jul-27	-	731,000	2,682	713,679	33,199	455,208
Aug-27	-	731,000	2,682	716,361	33,858	489,066
Sep-27	-	731,000	2,682	719,043	34,360	523,426
Oct-27	323,000	1,054,000	289,587	1,008,630	34,699	558,125
Nov-27	-	1,054,000	2,682	1,011,312	34,870	592,995
Dec-27	-	1,054,000	2,682	1,013,994	34,870	627,865
Jan-28	-	1,054,000	2,682	1,016,676	34,699	662,564
Feb-28	-	1,054,000	2,682	1,019,358	34,360	696,924
Mar-28	-	1,054,000	2,682	1,022,040	33,858	730,782
Apr-28	-	1,054,000	2,682	1,024,722	33,199	763,980
May-28	-	1,054,000	2,682	1,027,404	32,394	796,374
Jun-28	-	1,054,000	2,682	1,030,086	31,453	827,827
Jul-28	-	1,054,000	2,682	1,032,768	30,390	858,217
Aug-28	-	1,054,000	2,682	1,035,450	29,219	887,436
Sep-28	-	1,054,000	2,682	1,038,132	27,956	915,392
Oct-28	194,000	1,248,000	175,003	1,213,134	26,616	942,008
Nov-28	-	1,248,000	2,682	1,215,816	25,216	967,224
Dec-28	-	1,248,000	2,682	1,218,498	23,773	990,997
Jan-29	-	1,248,000	2,682	1,221,180	22,303	1,013,300
Feb-29	-	1,248,000	2,682	1,223,862	20,821	1,034,120
Mar-29	-	1,248,000	2,682	1,226,544	19,342	1,053,462
Apr-29	-	1,248,000	2,682	1,229,226	17,880	1,071,343
May-29	-	1,248,000	2,682	1,231,908	16,448	1,087,791
Jun-29	-	1,248,000	2,682	1,234,590	15,057	1,102,847
Jul-29	-	1,248,000	2,682	1,237,272	13,715	1,116,563
Aug-29	-	1,248,000	2,682	1,239,954	12,432	1,128,995
Sep-29	-	1,248,000	2,682	1,242,636	11,214	1,140,208
Oct-29	-	1,248,000	2,682	1,245,318	10,065	1,150,274
Nov-29	-	1,248,000	2,682	1,248,000	8,990	1,159,264
Dec-29	-	1,248,000	-	1,248,000	7,991	1,167,254
Jan-30	-	1,248,000	-	1,248,000	7,067	1,174,322
Feb-30	-	1,248,000	-	1,248,000	6,220	1,180,542
Mar-30	-	1,248,000	-	1,248,000	5,448	1,185,990
Apr-30	-	1,248,000	-	1,248,000	4,748	1,190,737
May-30	-	1,248,000	-	1,248,000	57,263	1,248,000

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201			
3. INSTALLATION AND LOCATION KARUP AIR BASE, DENMARK				4. COMMAND UNITED STATES AIR FORCES IN EUROPE			5. AREA CONSTRUCTION COST INDEX 0.76			
6. PERSONNEL		(1) PERMANENT		(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	
a. AS OF 30 SEP 23		0	0	0	0	0	0	0	0	0
b. END FY		0	0	0	0	0	0	0	0	0
7. INVENTORY DATA (\$000)										
a. TOTAL ACREAGE									7,400	
b. INVENTORY TOTAL AS OF 30 SEP 23									0.00	
c. AUTHORIZATION NOT YET IN INVENTORY									0.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM									110,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM									0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS									0.00	
g. REMAINING DEFICIENCY									109,000.00	
h. GRAND TOTAL									219,000.00	
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			
442-758	EDI: DABS-FEV STORAGE		28,574 SM		110,000	10/19	10/20			
9. FUTURE PROJECTS N/A										
10. MISSION OR MAJ OR FUNCTIONS Air Base Karup is the main air base of the Royal Danish Air Force. The air base covers 3000 hectares of land of which only a third is inside the operational area marked by a 15 km long fence. The air base mission is to support and administer authority for various defense headquarter, units and civilian companies and is the home base for all Danish helicopter units. The Air base has approximately 3400 military and civilian. Helicopter Wing unit strength is 14 EH101 Merlin, 8 FENNEC, 7 LYNX, 3 SEAHAWKs and 27 T-17.										
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A										

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION KARUP AIR BASE DENMARK				4. PROJECT TITLE EDI: DABS-FEV STORAGE		
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 442-758	7. AF PROJECT NUMBER LZCB210001		8. PROJECT COST (\$000) 110,000	
9. COST ESTIMATES						
7.2883 DANISH KRONE/US\$		ITEM	UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES						84,099
WAREHOUSE SUPPLY AND EQUIPMENT BAS (442-758)		SM	28,574	1,754		(50,119)
CONTROLLED HUMIDITY WAREHOUSE (442-421)		SM	12,944	1,323		(17,125)
VEHICLE MAINTENANCE SHOP (214-425)		SM	2,544	5,796		(14,745)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS				(2,110)
SUPPORTING FACILITIES						13,787
UTILITIES		LS				(3,942)
PAVEMENTS		LS				(3,756)
SITE IMPROVEMENTS		LS				(4,279)
ENVIRONMENTAL MITIGATION (2%)		LS				(1,810)
SUBTOTAL						97,886
CONTINGENCY (5.00%)						4,894
TOTAL CONTRACT COST						102,780
SUPERVISION, INSPECTION & OVERHEAD (7.30%)						7,503
TOTAL REQUEST						110,283
TOTAL REQUEST (ROUNDED)						110,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
REQUIREMENT: Overseas Operations Costs (OOC) funds this requirement in FY2025						
Construct controlled humidity warehouse(s); supply and equipment warehouses; and vehicle maintenance shop. Facilities provide materiel and vehicle storage, administrative and maintenance support. The facilities include overhead bridge cranes, lightning protection, overvoltage protection, closed-circuit television, and information systems connectivity. Supporting facilities include vehicle parking; vehicle fueling station and tanks; testing facilities; central wash facility; security fencing with gate; security entry control building; shed supplies and equipment depot; scale; material processing depots for hazardous materials and petroleum oil and lubricants; loading and unloading area; environmental mitigation; site improvements (landscaping, grading, and paving); and site utility systems (electrical, communications, water sanitary sewer, and storm water) to provide complete and usable facilities. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will						

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION KARUP AIR BASE DENMARK			4. PROJECT TITLE EDI: DABS-FEV STORAGE		
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 442-758	7. AF PROJECT NUMBER LZCB210001	8. PROJECT COST (\$000) 110,000	
<p>DESCRIPTION OF PROPOSED CONSTRUCTION: (CONTINUED) comply with Department of Defense antiterrorism/ force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 110 Tons</p>					
<p>11. REQ: 28,574 SM ADQT: 0 SUBSTD: 0</p> <p>PROJECT: EDI: DABS-FEV STORAGE</p> <p>REQUIREMENT: This project is in support of the European Deterrence Initiative, which includes military exercises and training on land, in the air, and at sea while sustaining a rotational presence throughout Europe. A key enabler for training and operations is infrastructure at key locations to support military activities. To support this initiative, Air Base Karup requires humidity-controlled, ventilated, and heated storage spaces for Deployable Air Base Systems assets, as well as supportive administrative and maintenance spaces. This project will improve United States Air Forces Europe's mission readiness by ensuring the equipment and vehicles comprising the Deployable Air Base System are protected from the elements and maintained in a condition of constant readiness. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: The existing warehouses at Air Base Karup are incapable of housing Deployable Air Base Systems - Facilities, Equipment, and Vehicles Storage Complex equipment as they are currently in use by the Royal Danish Military.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, there will be no covered space at Air Base Karup in which United States Air Forces Europe/United States Air Forces Africa can store Deployable Air Base Systems. The lack of properly sized, configured and covered warehouse space will prevent United States Air Forces Europe/United States Air Forces Africa from properly staging valuable assets at this location. Exposure to excessive moisture will degrade and damage the material, equipment and vehicles. Deployment and use of the Deployable Air Base Systems - equipment and vehicles will be delayed while urgent repairs are made to restore the equipment and vehicles to their required operability standards.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, Facility Requirements, Center Of Standardization, Standard Design Criteria, United States Army Corp of Engineers Fort Worth District, for the General-Purpose Warehouse (June 2012), and Center Of Standardization, Standard Design Criteria, United States Army Corp of Engineers Savannah District, for the Tactical Equipment Maintenance Facility (March 2015). This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), but will not employ a standard facility</p>					

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION KARUP AIR BASE DENMARK	4. PROJECT TITLE EDI: DABS-FEV STORAGE
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. AF PROJECT NUMBER LZCB210001	8. PROJECT COST (\$000) 110,000
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design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) indicated there is only one option that will meet operational requirements; new construction. Therefore, a complete economic analysis was not performed and request for waiver will be submitted for approval prior to the President's Budget submission. Parametric Cost Estimating System was used to develop the estimate for this project. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. This project will be submitted for North Atlantic Treaty Organization pre-financing. Although not currently part of an approved North Atlantic Treaty Organization capability package, a precautionary pre-finance statement will be filed for this project to allow possible future recoupment if the project becomes a North Atlantic Treaty Organization capability. This project was included in the Fiscal Year 2024 future years defense plan in Fiscal Year 25. Facility is sited in accordance with long-range development plan. The construction growth offset for this requirement is 474,279 square feet.

Base Civil Engineer: +49 6371-47-6773

Warehouse Supply and Equipment Base: 28,574 Square Meters = 307,568 Square Feet;
Controlled Humidity Warehouse: 12,944 Square Meters = 139,328 Square Feet; Vehicle
Maintenance Shop: 2,544 Square Meters = 27,383 Square Feet.

FOREIGN CURRENCY:

Foreign Currency Fluctuation Budget Rate Used: KRONE 6.8950

JOINT USE CERTIFICATION: These facilities can be used by other components on an "as available" basis; however, the scope of the project is based on United States Air Force requirements.

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION KARUP AIR BASE DENMARK	4. PROJECT TITLE EDI: DABS-FEV STORAGE
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 442-758	7. AF PROJECT NUMBER LZCB210001	8. PROJECT COST (\$000) 110,000
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12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Type of Design	Design-bid-build
(b) Date Design Started	01-OCT-19
(c) Parametric Cost Estimating Used to Develop Costs	YES
(d) Percent Complete as of 01 JAN 2024	100%
(e) Date 35% Designed	01-FEB-20
(f) Date Design Complete	01-OCT-20
(g) Energy Study/Life-cycle analysis was performed	YES

(2) Basis:

(a) Standard or Definitive Design	NO
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(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)

(a) Production of Plans and Specifications	6,600
(b) All Other Design Costs	3,300
(c) Total	9,900
(d) Contract	8,250
(e) In-house	1,650

(4) Construction Contract Award 2025-AUG

(5) Construction Start 2025-SEP

(6) Construction Completion 2028-MAR

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

<u>EQUIPMENT NOMENCLATURE</u>	<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>
	NONE		

Project: EDI: DABS-FEV Storage, Karup AB, Denmark

Project Spending Plan

As of: 04-Dec-23

All Cost in thousands (\$000)

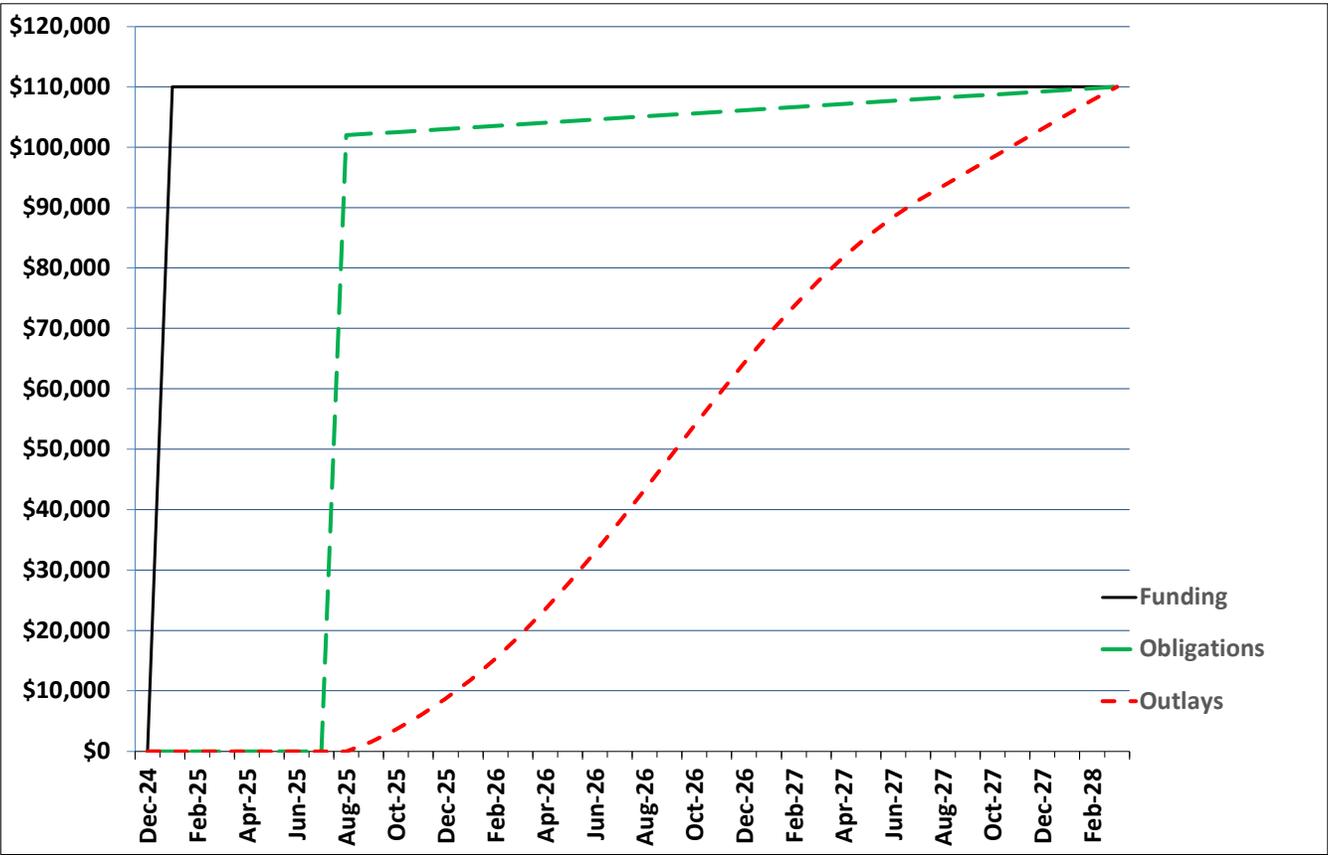
Chart Begin Dec-24	FUNDING (note 1)		OBLIGATIONS (note 2)		OUTLAYS (note 3)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Dec-24	-	-	-	-	-	-
Jan-25	110,000	110,000	-	-	-	-
Feb-25	-	110,000	-	-	-	-
Mar-25	-	110,000	-	-	-	-
Apr-25	-	110,000	-	-	-	-
May-25	-	110,000	-	-	-	-
Jun-25	-	110,000	-	-	-	-
Jul-25	-	110,000	-	-	-	-
Aug-25	-	110,000	101,971	101,971	-	-
Sep-25	-	110,000	259	102,230	1,562	1,562
Oct-25	-	110,000	259	102,489	2,012	3,574
Nov-25	-	110,000	259	102,748	2,365	5,939
Dec-25	-	110,000	259	103,007	2,740	8,679
Jan-26	-	110,000	259	103,266	3,128	11,808
Feb-26	-	110,000	259	103,525	3,519	15,327
Mar-26	-	110,000	259	103,784	3,901	19,228
Apr-26	-	110,000	259	104,043	4,261	23,489
May-26	-	110,000	259	104,302	4,587	28,076
Jun-26	-	110,000	259	104,561	4,865	32,941
Jul-26	-	110,000	259	104,820	5,085	38,026
Aug-26	-	110,000	259	105,079	5,236	43,262
Sep-26	-	110,000	259	105,338	5,314	48,576
Oct-26	-	110,000	259	105,597	5,314	53,890
Nov-26	-	110,000	259	105,856	5,236	59,126
Dec-26	-	110,000	259	106,115	5,085	64,211
Jan-27	-	110,000	259	106,374	4,865	69,076
Feb-27	-	110,000	259	106,633	4,587	73,662
Mar-27	-	110,000	259	106,892	4,261	77,924
Apr-27	-	110,000	259	107,151	3,901	81,825
May-27	-	110,000	259	107,410	3,519	85,344
Jun-27	-	110,000	259	107,669	3,128	88,472
Jul-27	-	110,000	259	107,928	2,740	91,213
Aug-27	-	110,000	259	108,187	2,365	93,578
Sep-27	-	110,000	259	108,446	2,365	95,943
Oct-27	-	110,000	259	108,705	2,365	98,308
Nov-27	-	110,000	259	108,964	2,365	100,674
Dec-27	-	110,000	259	109,223	2,365	103,039
Jan-28	-	110,000	259	109,482	2,365	105,404
Feb-28	-	110,000	259	109,741	2,365	107,769
Mar-28	-	110,000	259	110,000	2,231	110,000

Note 1: Assumes initial appropriation is enacted by Congress Jan FY 2025.

Note 2: Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.

Note 3: Assumes contract award in August 2025 and contract completion March 2028; duration 31 months.

EDI: DABS-FEV Storage, Karup AB, Denmark



1. COMPONENT Air Force		FY <u>2025</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201			
3. INSTALLATION AND LOCATION YAP INTERNATIONAL AIRPORT, FSM				4. COMMAND PACIFIC AIR FORCES			5. AREA CONSTRUCTION COST INDEX Not Listed			
6. PERSONNEL		(1) PERMANENT		(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	
a. AS OF 30 SEP 23		0	0	0	0	0	0	0	0	0
b. END FY		0	0	0	0	0	0	0	0	0
7. INVENTORY DATA (\$000)										
a. TOTAL ACREAGE										0
b. INVENTORY TOTAL AS OF 30 SEP 23										0.00
c. AUTHORIZATION NOT YET IN INVENTORY										0.00
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										400,314.00
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										803,727.00
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00
g. REMAINING DEFICIENCY										0.00
h. GRAND TOTAL										1,204,041.00
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			
111-111	PDI: RUNWAY EXTENSION, INC		49,518 SM		96,000	06/22	10/24			
9. FUTURE PROJECTS										
111-111 PDI: Runway Extension, Inc (49,518 SM / \$304,314)										
113-321 PDI: Aircraft Parking Apron, Inc (28,056 SM / \$803,727)										
10. MISSION OR MAJ OR FUNCTIONS										
Yap and the Federated States of Micronesia are strategically located in the western Pacific and provide assured access through the Compact of Free Association with the United States. Yap International Airport is located in the south-central portion of the main island of Yap and will be used as an important divert location for aircraft transiting Pacific Air Forces and USINDOPACOM area of responsibility.										
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES										
N/A										

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION YAP INTERNATIONAL AIRPORT FEDERATED STATES OF MICRONESIA			4. PROJECT TITLE PDI: RUNWAY EXTENSION, INC			
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 111-111	7. PROJECT NUMBER YAAD229010		8. PROJECT COST (\$000) Auth: 400,314 Appr: 96,000	
9. COST ESTIMATES						
1.0000 U. S. DOLLAR/US\$		ITEM	UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES						71,301
RUNWAY (111-111)		SM	49,518	922		(45,656)
SHOULDER, PAVED (116-642)		SM	23,307	513		(11,956)
LIGHTING, RUNWAY (136-664)		LM	6,294	1,833		(11,537)
FENCE BOUNDARY (872-245)		LM	3,523	540		(1,902)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS				(250)
SUPPORTING FACILITIES						278,471
SITE PREPARATION		LS				(113,592)
SITE IMPROVEMENTS		LS				(6,563)
UTILITIES		LS				(16,528)
ENVIRONMENTAL/CONSERVATION IMPACT MITIGATI		LS				(21,314)
SHIPPING AND SPECIAL LOGISTICAL CONSIDERAT		LS				(29,113)
MOBILIZATION AND MAN CAMP		LS				(40,296)
MUNITIONS AND EXPLOSIVES OF CONCERN		LS				(43,474)
STORM DRAINAGE		LS				(7,591)
SUBTOTAL						349,772
CONTINGENCY (5.00%)						17,489
TOTAL CONTRACT COST						367,261
SUPERVISION, INSPECTION AND OVERHEAD (9.00%)						33,053
TOTAL REQUEST						400,314
TOTAL REQUEST (ROUNDED)						400,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
<p>This project constructs an extension to the runway in both directions. This project will include site preparation, runway pavement extensions and turn around areas, paved shoulders, runway pavement markings and signs, airfield lighting for the full length of the runway, navigational aids, stormwater controls, utilities, and other improvements for a complete and usable project. Extensive site preparation is required for this project including site clearing, green waste management, excavation, grading, excess materials disposal, temporary erosion and sediment control, and removal and mitigation of Munitions and Explosives of Concern. An allowance for natural and cultural resources impact mitigation and allowances for a worker camp and mobilization and shipping to the remote location is included in supporting facilities. The project includes security fencing with high double outrigger and barbed wire. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/ force protection requirements per Unified Facilities Criteria 4-010-01.</p>						
11. REQ: 49,518 SM		ADQT: 0		SUBSTD: 0		
PROJECT:						
Pacific Deterrence Initiative (PDI): Runway Extension						

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION YAP INTERNATIONAL AIRPORT FEDERATED STATES OF MICRONESIA			4. PROJECT TITLE PDI: RUNWAY EXTENSION, INC		
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 111-111	7. PROJECT NUMBER YAAD229010	8. PROJECT COST (\$000) Auth: 400,314 Appr: 96,000	
REQUIREMENT:					
<p>The United States Air Force proposes to construct facilities and infrastructure in the Federated States of Micronesia in support of Headquarters United States Indo-Pacific Command requirements for aircraft divert, exercises, and humanitarian assistance and disaster relief. In addition, this construction project fully supports the 2019 National Defense Strategy for the Pacific Area of Responsibility. The strategic intent is to support and conduct current, emerging, and future United States Air Force training activities, and to ensure the capability to meet mission requirements in the event that access to other western Pacific locations is limited or denied. Development of Yap Airport is essential because there are very few divert or contingency airfields available as potential United States defense sites in the region. An adequate and safe runway is required to accommodate larger aircrafts to land and take-off in support of training, operations and humanitarian mission at the Yap airport. The extended runway is required to enable increased capacity of the runway by allowing larger aircraft to land and take-off quickly and safely. This increased capacity supports provisions for a command-and-control capable infrastructure for multi-service forces in the rapid establishment of operational capabilities in various locations. An additional project is planned for this location that would add capacity for aircraft parking and improve access to the runway. This is not a tenant or supported service requirement.</p>					
CURRENT SITUATION:					
<p>Yap and the Federated States of Micronesia are strategically located in the western Pacific and provide assured access through the Compact of Free Association with the United States. Yap International Airport is located in the south-central portion of the main island of Yap and operates a single parking apron and small terminal designed for commercial aircraft. Yap Airport is capable of being an important divert location for aircraft transiting the Indo-Pacific area; however, the runway is too short to adequately support military aircraft operations and lacks other critical required facilities such as aircraft arresting systems capabilities. Existing runway is not adequate to accommodate expanded mission and cannot adequately support the safe landing and takeoff for United States Navy aircraft at this location. Existing length of runway is only designed to the current aircraft operating at this location. There is no available data to substantiate the structural integrity and capacity of the existing asphalt pavement of runway.</p>					
IMPACT IF NOT PROVIDED:					
<p>Without the runway extension, some United States Air Force and other sister service aircraft will not be able to safely land at Yap International Airport and the location cannot be utilized as a practical divert location. Yap's strategic location is vital to Indo-Pacific Command/United States Pacific Air Force emerging/future missions/activities and for aircraft to effectively respond to natural disaster/humanitarian relief efforts in the area.</p>					
ADDITIONAL:					
<p>This project meets applicable criteria/scope specified in Air Force Manual 32-</p>					

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION YAP INTERNATIONAL AIRPORT FEDERATED STATES OF MICRONESIA		4. PROJECT TITLE PDI: RUNWAY EXTENSION, INC	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 111-111	7. PROJECT NUMBER YAAD229010	8. PROJECT COST (\$000) Auth: 400,314 Appr: 96,000

1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Naval Facilities Engineering Command. A Waiver to an Economic Analysis was approved for this project. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project to the extent it is compatible with Host Nation requirements. This may include preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems. This project does not fall within or partly within the 100-year flood plain. This project is not eligible for host nation funding. This project was included in the Fiscal Year 2024 future years defense plan in Fiscal Year 2025. Supporting facilities exceed 25% of the primary facility costs due to extensive site improvement (i.e. earthwork and grading), munitions and explosives of concern, utility requirements, and worker camp and other logistical needs. No construction growth offset is required for this project.

Base Civil Engineer equivalent: 808-449-3810 (in Hawaii).

Runway: 49,518 SM = 533,007 Square Feet; Shoulders, Paved: 23,307 SM = 250,874 Square Feet; Lighting, Runway: 6,294 M = 20,650 Feet; Fence, Boundary: 3,523 M = 11,558 Feet.

FOREIGN CURRENCY BUDGET RATE USED: The Federated States of Micronesia uses United States currency; no conversion is needed.

JOINT USE CERTIFICATION: This facility is programmed for joint use with United States Army, Marine Corps, Navy, and Space Force; however, it is fully funded by the Air Force.

The cost estimate for this project varies from the DoD Pricing Guide due to special project details identified during the Planning Charrette, the design process, and the application of parametric cost estimating tools. The Pricing Guide does not provide pricing for this type of facility and does not address the supply chain challenges of construction in this remote island nor area cost factors.

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION YAP INTERNATIONAL AIRPORT FEDERATED STATES OF MICRONESIA		4. PROJECT TITLE PDI: RUNWAY EXTENSION, INC		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 111-111	7. PROJECT NUMBER YAAD229010	8. PROJECT COST (\$000) Auth: 400,314 Appr: 96,000	

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

- (1) Status:
 - (a) Type of Design Design-Bid-Build
 - (b) Date Design Started 01-JUN-22
 - (c) Parametric Cost Estimating Used to Develop Costs YES
 - (d) Percent Complete as of 01 JAN 2024 35%
 - (e) Date 35% Designed 01-AUG-23
 - (f) Date Design Complete 01-OCT-24
 - (g) Energy Study/Life-cycle analysis was performed YES

- (2) Basis:
 - (a) Standard or Definitive Design NO

- (3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)
 - (a) Production of Plans and Specifications 24,000
 - (b) All Other Design Costs 12,000
 - (c) Total 36,000
 - (d) Contract 30,000
 - (e) In-house 6,000

- (4) Construction Contract Award 2025-AUG
- (5) Construction Start 2025-AUG
- (6) Construction Completion 2028-AUG

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

<u>EQUIPMENT NOMENCLATURE</u>	<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>
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c. Authorization and Appropriation Summary:

	Authorization \$(000)	Auth of Approp \$(000)	Appropriation \$(000)
FY2025 Budget Request	400,314	96,000	96,000
Future Request	0	304,314	304,314
Total	400,314		400,314

Spend Plan

CAO: 09-Dec-23

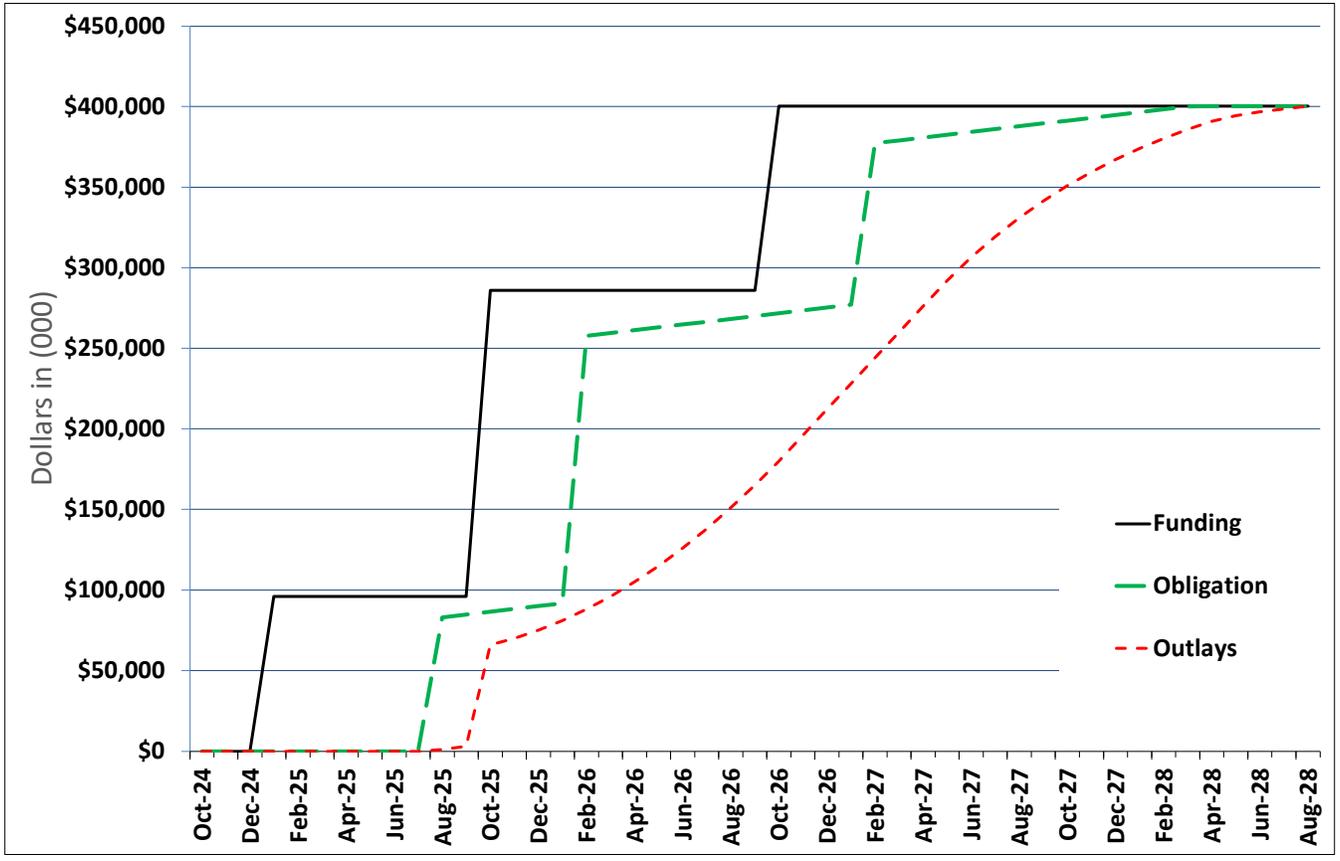
Project Title:	PDI: Runway Extension, Inc
Installation:	Yap IAP, Federated States of Micronesia
Program Year	2025
Project #	YAAD229010

All Cost in thousands

Chart Begin Oct-24	FUNDING (note 1)		OBLIGATION (note 2-3)		OUTLAYS (note 4-5)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-24	-	-	-	-	-	-
Nov-24	-	-	-	-	-	-
Dec-24	-	-	-	-	-	-
Jan-25	96,000	96,000	-	-	-	-
Feb-25	-	96,000	-	-	-	-
Mar-25	-	96,000	-	-	-	-
Apr-25	-	96,000	-	-	-	-
May-25	-	96,000	-	-	-	-
Jun-25	-	96,000	-	-	-	-
Jul-25	-	96,000	-	-	-	-
Aug-25	-	96,000	82,992	82,992	1,000	1,000
Sep-25	-	96,000	1,748	84,740	2,000	3,000
Oct-25	190,000	286,000	1,748	86,489	63,000	66,000
Nov-25	-	286,000	1,748	88,237	4,000	70,000
Dec-25	-	286,000	1,748	89,986	5,000	75,000
Jan-26	-	286,000	1,748	91,734	6,000	81,000
Feb-26	-	286,000	166,003	257,737	7,000	88,000
Mar-26	-	286,000	1,748	259,486	8,000	96,000
Apr-26	-	286,000	1,748	261,234	9,000	105,000
May-26	-	286,000	1,748	262,982	10,000	115,000
Jun-26	-	286,000	1,748	264,731	11,000	126,000
Jul-26	-	286,000	1,748	266,479	12,000	138,000
Aug-26	-	286,000	1,748	268,228	13,000	151,000
Sep-26	-	286,000	1,748	269,976	14,000	165,000
Oct-26	114,314	400,314	1,748	271,724	15,000	180,000
Nov-26	-	400,314	1,748	273,473	16,000	196,000
Dec-26	-	400,314	1,748	275,221	16,000	212,000
Jan-27	-	400,314	1,748	276,970	16,000	228,000
Feb-27	-	400,314	100,301	377,271	16,000	244,000
Mar-27	-	400,314	1,748	379,019	16,000	260,000
Apr-27	-	400,314	1,748	380,768	16,000	276,000
May-27	-	400,314	1,748	382,516	16,000	292,000
Jun-27	-	400,314	1,748	384,265	14,400	306,400
Jul-27	-	400,314	1,748	386,013	12,960	319,360
Aug-27	-	400,314	1,748	387,761	11,664	331,024
Sep-27	-	400,314	1,748	389,510	10,498	341,522
Oct-27	-	400,314	1,748	391,258	9,448	350,970
Nov-27	-	400,314	1,748	393,006	8,503	359,473
Dec-27	-	400,314	1,748	394,755	7,653	367,126
Jan-28	-	400,314	1,748	396,503	6,888	374,014
Feb-28	-	400,314	1,748	398,252	6,199	380,213
Mar-28	-	400,314	1,748	400,000	5,579	385,792
Apr-28	-	400,314	314	400,314	5,021	390,813
May-28	-	400,314	-	400,314	3,515	394,328
Jun-28	-	400,314	-	400,314	2,461	396,789
Jul-28	-	400,314	-	400,314	1,723	398,512
Aug-28	-	400,314	-	400,314	1,802	400,314

Notes	
Note 1:	Assumes initial appropriation is enacted by Congress Jan FY 2025.
Note 2:	Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.
Note 3:	Assumes ALL project funds (contract, SIOH, contingency, etc) are obligated NLT 6 months prior to project end
Note 4:	Assumes contract award in August 2025 and contract completion August 28; duration 36 months.
Note 5:	Assumes Agent will retain 1% of project obligations for a final payment

PDI: Runway Extension, Yap IAP, FSM



1. COMPONENT AIR FORCE		FY <u>2025</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION KADENA AIR BASE, JAPAN				4. COMMAND PACIFIC AIR FORCES			5. AREA CONSTRUCTION COST INDEX 1.85				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30 SEP 23		756	5,704	1,347	0	0	0	2,270	17,821	4,155	32,053
b. END FY		756	5,704	1,347	0	0	0	2,270	17,821	4,155	32,053
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE								12,428			
b. INVENTORY TOTAL AS OF 30 SEP 23								22,962,199.00			
c. AUTHORIZATION NOT YET IN INVENTORY								513,000.00			
d. AUTHORIZATION REQUESTED IN THIS PROGRAM								0.00			
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM								0.00			
f. PLANNED IN NEXT THREE PROGRAM YEARS								0.00			
g. REMAINING DEFICIENCY								404,000.00			
h. GRAND TOTAL								23,879,199.00			
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				
211-159	PDI: THEATER A/C CORROSION CONTROL CTR, INC		14,160 SM		132,700	11/20	10/22				
9. FUTURE PROJECTS N/A											
10. MISSION OR MAJ OR FUNCTIONS Operating from the largest United States installation in the Asia-Pacific region, the 18th Wing defends United States and Japanese mutual interests by providing a responsive staging and operational air base with integrated, deployable, forward-based air power. Strategy used to employ this mission centers around 93 aircraft comprised of 54 F-15, 15 KC-135, 10 HH-60, 2 E-3, 10 MJ-130, and 2 RC-135.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION KADENA AIR BASE JAPAN			4. PROJECT TITLE PDI: THEATER A/C CORROSION CONTROL CTR, INC			
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 211-159	7. AF PROJECT NUMBER LXEZ193437		8. PROJECT COST (\$000) AUTH: 0 APPRO: 132,700	
9. COST ESTIMATES						
139.1635 YEN/US\$		ITEM	UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES						203,630
AIRCRAFT CORROSION CONTROL (211-159)		SM		14,160	14,310	(202,630)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS				(1,000)
SUPPORTING FACILITIES						71,015
SPECIAL FOUNDATIONS		LS				(8,637)
UTILITIES		LS				(2,593)
PAVEMENTS		LS				(10,515)
SITE IMPROVEMENTS		LS				(26,284)
COMMUNICATIONS		LS				(560)
DEMOLITION		SM				(11,206)
ENVIRONMENTAL MITIGATION		LS				(5,344)
ARCHAEOLOGICAL MONITORING		LS				(5,876)
SUBTOTAL						274,645
CONTINGENCY (5.00%)						13,732
TOTAL CONTRACT COST						288,377
SUPERVISION, INSPECTION & OVERHEAD (6.50%)						18,745
TOTAL REQUEST						307,122
TOTAL REQUEST (ROUNDED)						307,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						(2,550)
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
<p>Construct a corrosion control facility for painting large bodied aircraft. The facility consists of a single bay paint booth, single bay prep/wash hangar, and support spaces for painting and sanding operations. The facility will be constructed from cast-in-place concrete walls with a structural steel truss framing system to supporting a cast-in-place concrete roof. The project will include supporting facilities such as utilities, pavements, and site improvements to provide a complete and usable facility. The facility should be compatible with applicable United States Department of Defense, Air Force, and base design standards. This project will demolish Building 3542 (2,830 square meters). In addition, local materials and construction techniques shall be used where cost effective. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense antiterrorism/ force protection</p>						

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION KADENA AIR BASE JAPAN			4. PROJECT TITLE PDI: THEATER A/C CORROSION CONTROL CTR, INC		
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 211-159	7. AF PROJECT NUMBER LXEZ193437	8. PROJECT COST (\$000) AUTH: 0 APPRO: 132,700	
<p>DESCRIPTION OF PROPOSED CONSTRUCTION: (CONTINUED) requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: 60 Tons</p>					
11. REQ: 14,160 SM ADQT: 0 SUBSTD: 2,830 SM					
<p>PROJECT: Theater Aircraft Corrosion Control Center</p>					
<p>REQUIREMENT: An adequately sized and configured Aircraft Corrosion Control Facility is required to provide hangar space for corrosion treating, corrosion repairing, paint stripping and repainting of an entire aircraft and an environmentally controlled area to wash aircraft. The facility shall also provide space for the corrosion control shop preparation and drying areas, abrasive blasting rooms, paint booths for mixing and applying paint, tool storage lockers, bathroom and locker rooms, administrative areas, storage space and mechanical rooms. A separate Corrosion Control Hazardous Material Storage and Corrosion Control Utility Storage buildings shall be provided. Supporting facilities include, but is not limited to, site preparation and cultural asset mitigation, utilities, HVAC, fire protection system, communications, vehicular pavement and access roads, fencing, concrete apron, exterior lighting, concrete retaining wall, and rerouting of POL line.</p>					
<p>CURRENT SITUATION: The current corrosion control hangar does not have the proper environmental controls for sprayed paint. Paint is currently applied by roller which does not provide a consistent coating within corrosion control specifications and does not adhere as well, causing more frequent need for corrosion control and increased risk of corrosion. In addition the hangar that is currently used for corrosion control is a C-130 hangar, KC- 135s and E-3s are not able to fit within the facility. The existing large corrosion control facilities are Buildings 3541 and 3542 which were built in 1965. Building 3541 has a Risk Assessment Code 3 and Fire Safety Deficiency Code II assigned to the facility. Due to its age, the facility is in a severely deteriorated condition. The concrete roof slab is spalling creating the potential for pieces of concrete to fall and injure personnel and damage high value assets. The wash rack cannot be used due to corroded piping. The hangar doors and tracks are not operating due to corrosion. The ventilation system is inadequate to support fiberglass preparation and painting operations. The lighting system does not provide the illumination required for corrosion control activities. There are no lifeline cables. The fire suppression system is corroded and needs to be replaced. Building 3542 has a Risk Assessment Code 2 and Fire Safety Deficiency Code I assigned to the facility. Due to age, the HVAC system is not operating. Hangar doors and tracks are corroded and are not operating. The ventilation system is no longer functioning and is exposing personnel to hazardous materials during sanding and painting work. The facility also lacks a clean room and a fall arrest system. The fire suppression system is severely corroded. Due to these deficiencies, the facility has been designated a "regulated area" by the</p>					

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION KADENA AIR BASE JAPAN		4. PROJECT TITLE PDI: THEATER A/C CORROSION CONTROL CTR, INC		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-159	7. AF PROJECT NUMBER LXEZ193437	8. PROJECT COST (\$000) AUTH: 0 APPRO: 132,700	
<p>CURRENT SITUATION: (CONTINUED) Base Safety Office. As a result, precautionary measures requiring additional manpower and resources to execute must be implemented to protect the health and safety of personnel. Military personnel are prohibited from working in the facility until the health and safety issues are corrected. Corrosion control operations are currently being accomplished by Department of Defense contractors.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, maintenance personnel will continue to be forced to work in an environment that is detrimental to health and safety. Aircraft will continue to be painted by inappropriate methods due to lack of proper environmental control. Due to the inadequacies of the facilities, corrosion control work will continue to slow down, thereby, causing delays in critical treatment of aircraft. This will have an adverse impact on the base's readiness posture and the capability to effectively support the flying mission in the Pacific theatre.</p> <p>ADDITIONAL: This project meets the applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. An approved Economic Analysis determined new construction as the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of UFC 1-200-02 is partially compliant or not applicable. This project is eligible for host nation funding; however, the US Forces Command states the project has extremely little chance of being funded in the foreseeable future. This project does not fall within the 100-year flood plain. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. The cost estimate was based on PACES and is in line with the Department of Defense Pricing Guide Parameters. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards (if applicable), and shall employ the standard facility design for Corrosion Control/Fuel Cell Maintenance Hangar Facility.</p> <p>18th Civil Engineer Group: DSN (315)-634-1807 718th Civil Engineer Squadron: DSN (315)-634-0718</p> <p>Aircraft Corrosion Control Facility: 14,160 SM = 152,417 Square Feet; Demolition: 2,830 SM = 30,462 Square Feet.</p> <p>FOREIGN CURRENCY BUDGET RATE USED: ¥145.7323 = \$1</p> <p>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 Air Force requirements.</p>				

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION KADENA AIR BASE JAPAN	4. PROJECT TITLE PDI: THEATER A/C CORROSION CONTROL CTR, INC
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-159	7. AF PROJECT NUMBER LXEZ193437	8. PROJECT COST (\$000) AUTH: 0 APPRO: 132,700
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12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Type of Design	Design-bid-build
(b) Date Design Started	01-NOV-20
(c) Parametric Cost Estimating Used to Develop Costs	YES
(d) Percent Complete as of 01 JAN 2024	100%
(e) Date 35% Designed	01-AUG-21
(f) Date Design Complete	01-OCT-22
(g) Energy Study/Life-cycle analysis was performed	YES

(2) Basis:

(a) Standard or Definitive Design	YES
(b) Where Design Was Most Recently Used	McConnell Air Force Base

(3) Total Design Cost (c) = (a)+(b) or (d)+(e)	(\$000)
(a) Production of Plans and Specifications	17,400
(b) All Other Design Costs	8,700
(c) Total	26,100
(d) Contract	21,750
(e) In-house	4,350

(4) Construction Contract Award	2023-APR
(5) Construction Start	2023-APR
(6) Construction Completion	2028-FEB

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

<u>EQUIPMENT NOMENCLATURE</u>	<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST (\$000)</u>
Furniture Fixture & Equipment	3080	2028	2,350
Communications	3400	2028	200

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION KADENA AIR BASE JAPAN	4. PROJECT TITLE PDI: THEATER A/C CORROSION CONTROL CTR, INC
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-159	7. AF PROJECT NUMBER LXEZ193437	8. PROJECT COST (\$000) AUTH: 0 APPRO: 132,700
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12. SUPPLEMENTAL DATA (CONTINUED..)

c. Authorization and Appropriation Summary:

	Authorization \$(000)	Auth of Approp \$(000)	Appropriation \$(000)
FY2023 Enacted	307,000	77,000	77,000
Cost Variation 2023	0	55,300	55,300
FY2024 Budget Request	0	42,000	42,000
FY2025 Budget Request	0	132,700	132,700
Total	307,000		307,000

Spend Plan

CAO: 04-Dec-23

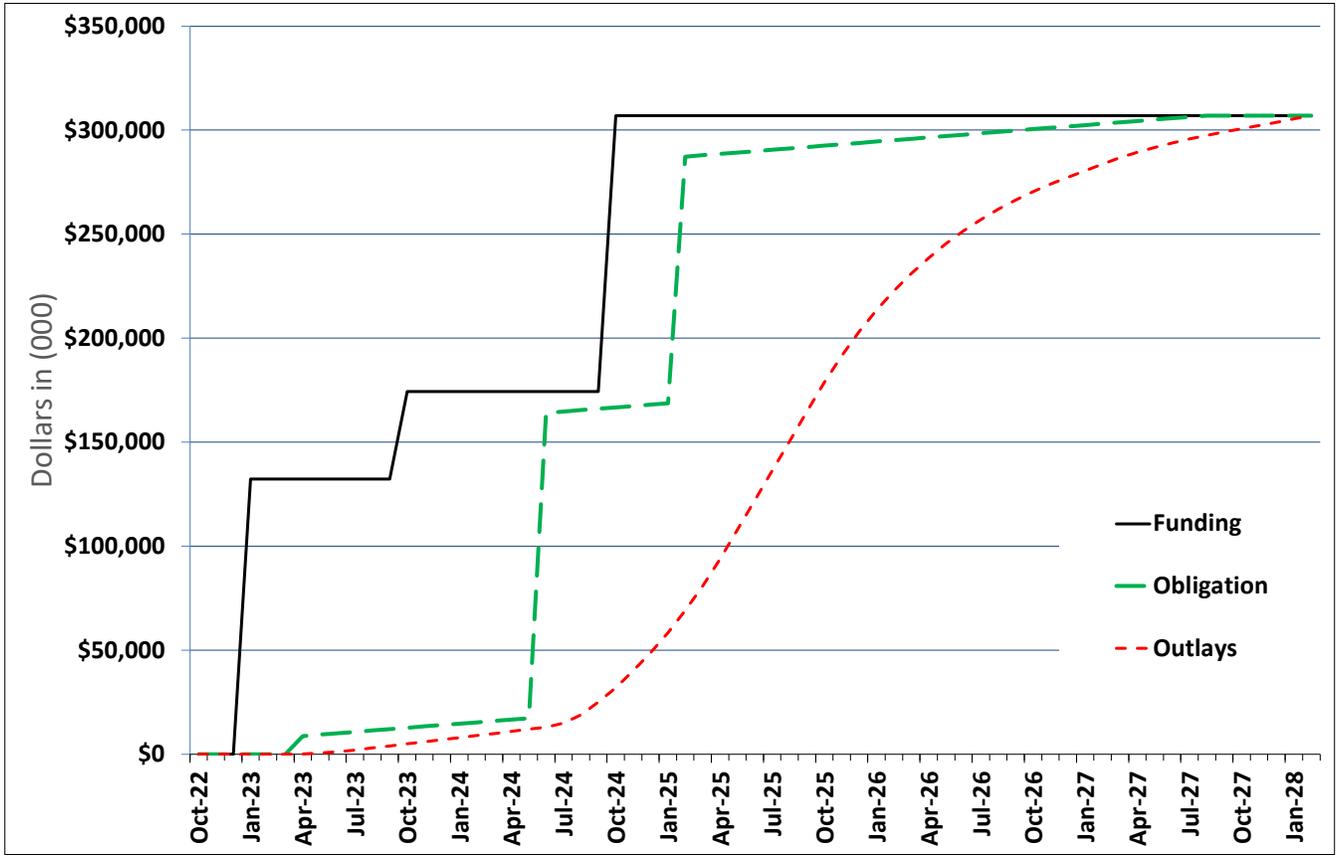
Project Title:	PDI: Theater A/C Corrosion Control Ctr, Inc
Installation:	Kadena AB, Japan
Program Year	2025
Project #	LXEZ193437

All Cost in thousands

Chart Begin Oct-22	FUNDING (note 1)		OBLIGATION (note 2-3)		OUTLAYS (note 4-5)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-22	-	-	-	-	-	-
Nov-22	-	-	-	-	-	-
Dec-22	-	-	-	-	-	-
Jan-23	132,300	132,300	-	-	-	-
Feb-23	-	132,300	-	-	-	-
Mar-23	-	132,300	-	-	-	-
Apr-23	-	132,300	8,761	8,761	200	200
May-23	-	132,300	660	9,421	400	600
Jun-23	-	132,300	660	10,081	600	1,200
Jul-23	-	132,300	660	10,740	800	2,000
Aug-23	-	132,300	660	11,400	1,000	3,000
Sep-23	-	132,300	660	12,060	1,000	4,000
Oct-23	42,000	174,300	660	12,720	1,000	5,000
Nov-23	-	174,300	660	13,379	1,000	6,000
Dec-23	-	174,300	660	14,039	1,000	7,000
Jan-24	-	174,300	660	14,699	1,000	8,000
Feb-24	-	174,300	660	15,359	1,000	9,000
Mar-24	-	174,300	660	16,018	1,000	10,000
Apr-24	-	174,300	660	16,678	1,000	11,000
May-24	-	174,300	660	17,338	1,000	12,000
Jun-24	-	174,300	146,721	164,059	1,000	13,000
Jul-24	-	174,300	660	164,718	2,000	15,000
Aug-24	-	174,300	660	165,378	4,000	19,000
Sep-24	-	174,300	660	166,038	6,000	25,000
Oct-24	132,700	307,000	660	166,698	7,000	32,000
Nov-24	-	307,000	660	167,357	8,000	40,000
Dec-24	-	307,000	660	168,017	8,800	48,800
Jan-25	-	307,000	660	168,677	9,680	58,480
Feb-25	-	307,000	118,531	287,207	10,650	69,130
Mar-25	-	307,000	660	287,867	11,720	80,850
Apr-25	-	307,000	660	288,527	12,890	93,740
May-25	-	307,000	660	289,187	14,180	107,920
Jun-25	-	307,000	660	289,846	14,180	122,100
Jul-25	-	307,000	660	290,506	14,180	136,280
Aug-25	-	307,000	660	291,166	14,180	150,460
Sep-25	-	307,000	660	291,826	14,180	164,640
Oct-25	-	307,000	660	292,485	14,180	178,820
Nov-25	-	307,000	660	293,145	12,760	191,580
Dec-25	-	307,000	660	293,805	11,480	203,060
Jan-26	-	307,000	660	294,465	10,330	213,390
Feb-26	-	307,000	660	295,124	9,300	222,690
Mar-26	-	307,000	660	295,784	8,370	231,060
Apr-26	-	307,000	660	296,444	7,530	238,590
May-26	-	307,000	660	297,104	6,780	245,370
Jun-26	-	307,000	660	297,763	6,100	251,470
Jul-26	-	307,000	660	298,423	5,490	256,960
Aug-26	-	307,000	660	299,083	4,940	261,900
Sep-26	-	307,000	660	299,743	4,450	266,350
Oct-26	-	307,000	660	300,402	4,010	270,360
Nov-26	-	307,000	660	301,062	3,610	273,970
Dec-26	-	307,000	660	301,722	3,250	277,220
Jan-27	-	307,000	660	302,382	3,250	280,470
Feb-27	-	307,000	660	303,041	3,250	283,720
Mar-27	-	307,000	660	303,701	2,930	286,650
Apr-27	-	307,000	660	304,361	2,640	289,290
May-27	-	307,000	660	305,021	2,380	291,670
Jun-27	-	307,000	660	305,680	2,140	293,810
Jul-27	-	307,000	660	306,340	1,930	295,740
Aug-27	-	307,000	660	307,000	1,740	297,480
Sep-27	-	307,000	-	307,000	1,570	299,050
Oct-27	-	307,000	-	307,000	1,570	300,620
Nov-27	-	307,000	-	307,000	1,570	302,190
Dec-27	-	307,000	-	307,000	1,570	303,760
Jan-28	-	307,000	-	307,000	1,570	305,330
Feb-28	-	307,000	-	307,000	1,670	307,000

Notes	
Note 1:	Assumes initial appropriation is enacted by Congress Jan FY 2023.
Note 2:	Assumes funds are available for obligation by 31 January of the execution year and by 1 October for subsequent years.
Note 3:	Assumes ALL project funds (contract, SIOH, contingency, etc) are obligated NLT 6 months prior to project end
Note 4	This project is being awarded in two contracts: first award in April 2023, second award in June 2024. Contract completion in February 2028. Duration 58 months.
Note 5	Assumes Agent will retain 1% of project obligations for a final payment

PDI: Theater A/C Corrosion Control Ctr, Inc, Kadena AB, Japan



1. COMPONENT AIR FORCE		FY <u>2025</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION NAVAL STATION ROTA, SPAIN					4. COMMAND NAVY REGION EUROPE, AFRICA, CENTRAL					5. AREA CONSTRUCTION COST INDEX 0.96	
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30 SEP 23		5	179	4	0	0	0	0	0	0	188
b. END FY		5	179	4	0	0	0	0	0	0	188
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										0	
b. INVENTORY TOTAL AS OF 30 SEP 23										0.00	
c. AUTHORIZATION NOT YET IN INVENTORY										0.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										15,200.00	
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										15,200.00	
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				
211-111	NATO Strategic Airlift Hangar		7,682 SM		15,200	06/23	09/24				
9. FUTURE PROJECTS N/A											
10. MISSION OR MAJ OR FUNCTIONS The Rota Spain installation is identified as a North Atlantic Treaty Organization Deployment Operating Base supporting 16 Strategic Air Transport aircrafts. At Rota, the 521st AMOW and 725th AMS support the USTRANSCOM global en route master plan and cross-Atlantic operations. The proposed hangar will be used as an alternate to the current Maintenance Hangar at Ramstein, AFB, Germany. Ramstein is located 2,300 km away from Rota and considered the Main Operating Base in the north and central "En route Atlantic Routes" while Rota is part of the central and southern routes. Therefore, the project provides valuable redundancy and expanded capability that would address operational impacts at Ramstein. Additionally, this project provides the needed fuel cell capable maintenance hangar, ensuring mission continuity during inclement weather at Rota, which routinely limits outdoor maintenance operations. Currently, no covered facilities exist at Rota Air Base capable of Strategic Air Transport maintenance.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION NAVAL STATION ROTA SPAIN			4. PROJECT TITLE NATO STRATEGIC AIRLIFT HANGAR			
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 211-111	7. AF PROJECT NUMBER ASKE253001		8. PROJECT COST (\$000) 15,200	
9. COST ESTIMATES						
0.9798 EURO/US\$		ITEM	UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES						7,826
HANGAR, MAINTENANCE (211-111)		SM	7,682	971		(7,459)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		LS	--	--		(367)
SUPPORTING FACILITIES						2,296
ROADS, SIDEWALKS, AND PARKING		LS	--	--		(255)
SITE IMPROVEMENTS		LS	--	--		(2,041)
SUBTOTAL						10,122
CONTINGENCY (10.00%)						1,012
TOTAL CONTRACT COST						11,134
SUPERVISION, INSPECTION & OVERHEAD (7.30%)						813
NORTH ATLANTIC TREATY ORGANIZATION FEES						3,267
TOTAL REQUEST						15,214
TOTAL REQUEST (ROUNDED)						15,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
<p>This project provides a single bay, full-in, fuel cell capable maintenance hangar for maintaining C-5 & C-17 aircraft utilizing conventional design and construction methods to accommodate the mission of the facility. Project will include fire suppression systems, all utilities, pavements, site improvements & associated support facilities. Information systems include basic telephone, computer network (both secure and non-secure), fiber optic, cable television, security and fire alarm systems and infrastructure. Anti-Terrorism/Force Protection features comply with antiterrorism/force protection regulations and include vehicle barriers and fencing. Built-in equipment includes lifts, hoist rails, tool cages, counter tops, and compressed air system. Special Costs include Post Construction Contract Award Services, geospatial surveying & mapping, cybersecurity commissioning, and archeological/ environmental monitoring. Building control systems include cybersecurity commissioning in accordance with current Department of Defense</p>						

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION NAVAL STATION ROTA SPAIN		4. PROJECT TITLE NATO STRATEGIC AIRLIFT HANGAR		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-111	7. AF PROJECT NUMBER ASKE253001	8. PROJECT COST (\$000) 15,200	
<p>DESCRIPTION OF PROPOSED CONSTRUCTION: (CONTINUED)</p> <p>criteria. Supporting Facilities for this project include: Paving and Site Improvements to include grading, parking, laydown areas, roadways, curbs, sidewalks, landscaping, fencing, signs, and stormwater drainage. Electrical Utilities include connection to existing primary and secondary distribution systems, lighting, transformers, and telecommunications infrastructure. Mechanical Utilities include heating, ventilation and air conditioning, water lines, plumbing and plumbing fixtures, sanitary sewer lines, fire protection systems and supply lines. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building Requirements, and Unified Facilities Criteria 1-200-02 High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria 4-101-01. Additionally, facilities will be designed in accordance with Bi-Strategic Command 085-005, North Atlantic Treaty Organization Approved Criteria & Standards for Airfields.</p> <p>Air Conditioning: 0.00 Tons</p>				
11. REQ: 7,682 SM ADQT: 0 SUBSTD: 0				
<p>PROJECT:</p> <p>Execute role as host nation and construction agent for this North Atlantic Treaty Organization project located in Rota, Spain. This is in accordance with Department of Defense Directive 2010.05. Capability Package 3AF07005-0, Maintenance Hangar. The project provides a maintenance hangar in support of one Strategic Air Transport to provide space for aircraft maintenance during inclement weather conditions so as not to impact operations. The hangar will be sized for Strategic Air Transport airframes, which includes C-5 and C-17.</p> <p>REQUIREMENT:</p> <p>The North Atlantic Treaty Organization requirement is for Rota Air Base to support transit of 16 United States based Strategic Air Transport, which establishes the need for a maintenance hangar for 1st and 2nd line maintenance on one Strategic Air Transport aircraft. This is a North Atlantic Treaty Organization conjunctively funded project, originally identified in 2013, as part of North Atlantic Treaty Organization Capability Package 9A0951-A01, and amended in Capability Package 9A90951-ADD1 Air Transport in Supreme Allied Commander Europe's Areas of Responsibility. This Capability Package outlines the alliances requirements for strategic airlift bases in support of North Atlantic Treaty Organization's strategic airlift requirements. Additionally, this project supports the United States Transportation Command En Route Infrastructure Master Plan. The En Route European strategy links locations based upon geography, representing Northern, Central, and Southern routes leading to this critical Areas of Responsibility in a Three-Use-Two strategy. The Southern route is least optimized and relies on flown-in maintenance done during favorable weather for emergencies. The strategy is based on cross-Atlantic operations rather than just cross-European as has been the focus in the past.</p>				

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION NAVAL STATION ROTA SPAIN		4. PROJECT TITLE NATO STRATEGIC AIRLIFT HANGAR	
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-111	7. AF PROJECT NUMBER ASKE253001	8. PROJECT COST (\$000) 15,200

REQUIREMENT: (CONTINUED)

A maintenance hangar is vital to performing fuel cell work in all weather conditions and for general maintenance during extreme weather events. In addition to fuel cell work, routine and emergency maintenance activities will be performed in the hangar. These improvements at Rota contribute to right-sizing the Central route and ensures full maintenance capability in case the Northern routes becomes unavailable. This provides highly beneficial en-route redundancy for the south route. Additionally, this project addresses the potential operational impacts derived from Ramstein severe weather condition, or natural/man-made disasters that may render the maintenance hangar inoperable.

There are no facilities that meet this requirement, nor are there existing facilities that can be modified to meet the requirement. After analyzing the installation weather conditions, Naval Station Rota exceeds the minimum thresholds justifying the need for a hangar due to extreme and prolonged heat and extreme wind conditions based on historic climate data. The heat index for Maintenance Personnel is above the threshold of +30oC for a minimum of 30 consecutive days during summer periods, the wind velocity experienced winds or gusts over the 25 knots maintenance jacking limit for 93% of the analyzed days, and the wind velocity at right angle to the direction of the main runway exceeds 30 knots for more than 20% of the year.

This is not a tenant or supported service requirement. This is in accordance with Department of Defense Directive 2010.05.

CURRENT SITUATION:

Currently, maintenance operations at Naval Station Rota are performed outdoors. There are no facilities that exist at Naval Station Rota that can support C-5 aircraft maintenance requirements and inspections. The only covered spaces that are currently operational at the installation are rotary wing and P3 capable, and they are fully occupied by the territorial (Spain) and other user nations.

IMPACT IF NOT PROVIDED:

Delays in executing these projects for lack of Host Nation Infrastructure Support funding will deprive operating units of sorely needed facilities resulting in mission delays and missed sortie generation. United States Strategic Airlift Transport will lack hangar maintenance space, and will continue to perform necessary maintenance on the open ramp. Prolonged heat and extreme wind conditions will continue to degrade/delay maintenance operations necessary for the United States to meet North Atlantic Treaty Organization strategic airlift requirements through Rota Air Base. Aircraft requiring maintenance during strategic airlift operations will either have to wait for clear weather, or attempt to travel (if possible) 2,300 km/1,430 mi to Ramstein, Germany (the nearest C-5 capable maintenance hangar). Maintenance for United States Strategic Airlift Transport aircraft at Rota Air Base will continue to be vulnerable to changing climate conditions.

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION NAVAL STATION ROTA SPAIN		4. PROJECT TITLE NATO STRATEGIC AIRLIFT HANGAR		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-111	7. AF PROJECT NUMBER ASKE253001	8. PROJECT COST (\$000) 15,200	

ADDITIONAL:

This project meets the criteria/scope in the North Atlantic Treaty Organization Capability Package 9A0951-A01, as amended in Capability Package 9A90951-ADD1 Air Transport. Additionally, this project meets the criteria/scope in Department of the Air Force Manual 32-1084, Standard Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, and the North Atlantic Treaty Organization Minimum Military Requirements standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from Air Force Civil Engineer Center, the United States Army Corps of Engineers or Naval Facilities Engineering Command. All reasonable alternatives were considered during the development of this project [status quo, new construction, repair/renovation, and add/alter]. Because New Construction is the only viable option to meet this requirement, a Waiver to an Economic Analysis has been generated and is in progress and will be completed before approval of the President's Budget. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. This 1391 represents only the United States Air Force portion of the project funds. North Atlantic Treaty Organization funding is not represented in this document. The overall combined project Programmed Amount is \$86M. The North Atlantic Treaty Organization funding covers minimum military requirements outlined in Bi-Strategic Command 085-005. United States Air Force funding covers those items not considered minimum military requirements. North Atlantic Treaty Organization funding covers the majority of the primary facility, Hangar, and United States Air Force funding will cover the support facilities and specific items in the primary facility not considered minimum military requirements. For this reason, the supporting facilities cost to the United States Air Force will exceed 25% of the primary facilities cost. This project was included in the Fiscal Year 2024 future years defense plan in Fiscal Year 2025. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. The construction growth offset for this requirement is 82,688 square feet.

This project provides for the cost of non-North Atlantic Treaty Organization eligible expenses in support of projects 3AF07005 "Provide Transient Aircraft Hangar" and 3AF07001 "Provide Transient Aircraft Apron". Both projects are included in North Atlantic Treaty Organization Capability Package 9A0951-ADD1, Air Transport in Supreme Allied Commander Europe's Areas of Responsibility authorized by the North Atlantic Council in September 2016. Host nation ship transfer from Spain to the United States was authorized 14 March 2017. This is in accordance with Department of Defense Directive 2010.05 dated 09 November 2022 paragraph 2.5.e, which states: "The Secretaries of the Military Departments plan, program,

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION NAVAL STATION ROTA SPAIN	4. PROJECT TITLE NATO STRATEGIC AIRLIFT HANGAR
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-111	7. AF PROJECT NUMBER ASKE253001	8. PROJECT COST (\$000) 15,200
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ADDITIONAL: (CONTINUED)

budget and seeks authorization, when necessary, for United States requirements and authorized incidental expenses not eligible for North Atlantic Treaty Organization Security Investment Program funding under North Atlantic Treaty Organization rules."

Naval Station Rota Public Works Department: (+34) 956-82-2710

Hangar, Maintenance: 7,682 SM = 82,688 Square Feet.

FOREIGN CURRENCY BUDGET RATE USED: EURO-DOLLAR: \$1 = 0.9249 Euros

JOINT USE CERTIFICATION: The Regional Commander certifies that this facility has been considered for joint use potential.

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION NAVAL STATION ROTA SPAIN	4. PROJECT TITLE NATO STRATEGIC AIRLIFT HANGAR
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 211-111	7. AF PROJECT NUMBER ASKE253001	8. PROJECT COST (\$000) 15,200
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12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Type of Design	Design-bid-build
(b) Date Design Started	01-JUN-23
(c) Parametric Cost Estimating Used to Develop Costs	YES
(d) Percent Complete as of 01 JAN 2024	30.00%
(e) Date 35% Designed	01-MAR-24
(f) Date Design Complete	01-SEP-24
(g) Energy Study/Life-cycle analysis was performed	NO

(2) Basis:

(a) Standard or Definitive Design	YES
(b) Where Design Was Most Recently Used	Dover Air Force Base

(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)

(a) Production of Plans and Specifications	900
(b) All Other Design Costs	450
(c) Total	1,350
(d) Contract	1,125
(e) In-house	225

(4) Construction Contract Award	2025-AUG
(5) Construction Start	2025-SEP
(6) Construction Completion	2027-SEP

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

<u>EQUIPMENT NOMENCLATURE</u>	<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>
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1. COMPONENT Air Force		FY <u>2025</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION ROYAL AIR FORCE LAKENHEATH, UNITED KINGDOM				4. COMMAND UNITED STATES AIR FORCES EUROPE			5. AREA CONSTRUCTION COST INDEX 1.06				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30 SEP 23		588	4,936	877	0	0	0	0	0	0	6,401
b. END FY		574	4,738	851	0	0	0	0	0	0	6,163
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										2,246	
b. INVENTORY TOTAL AS OF 30 SEP 23										4,958,547.00	
c. AUTHORIZATION NOT YET IN INVENTORY										172,300.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										185,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										110,000.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										548,000.00	
h. GRAND TOTAL										5,973,847.00	
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				
872-247	SURETY: BARRIER SYSTEMS		8,497 LM		185,000	11/22	03/24				
9. FUTURE PROJECTS 141-461 SURETY COMMAND POST (1,647 SM / \$33,000) 141-753 SURETY DEFENDER OPERATIONS COMPOUND (3,046 SM / \$77,000)											
10. MISSION OR MAJOR FUNCTIONS Royal Air Force Lakenheath is home to the 48th Fighter Wing, the largest fighter wing in the United States Air Forces Europe area of responsibility. Its mission is to train, support and employ a combat fighter wing, including two F-15E squadrons and two F-35A squadrons.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE #1 UNITED KINGDOM			4. PROJECT TITLE SURETY: BARRIER SYSTEMS			
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 872-247	7. AF PROJECT NUMBER MSET223003		8. PROJECT COST (\$000) 185,000	
9. COST ESTIMATES						
0.8502 POUND/US\$		ITEM	UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES						82,300
FENCE SECURITY/VEHICLE BARRIERS (872-247)		LM	8,497	8,512		(72,326)
GATE (872-249)		LM	189	15,715		(2,970)
ROAD (851-147)		SM	16,684	360		(6,006)
ACCESS CONTROL FACILITY (730-789)		SM	45	16,622		(748)
CYBERSECURITY OF FACILITY-RELATED CTRL SYS		LS	--	--		(250)
SUPPORTING FACILITIES						89,436
UTILITIES		LS	--	--		(27,583)
SITE PREPARATION		LS	--	--		(7,121)
PAVEMENTS		LS	--	--		(1,737)
SITE IMPROVEMENTS		LS	--	--		(20,821)
COMMUNICATIONS		LS				(6,344)
GENERATOR (3 EA @ 150 KW)		KW				(1,872)
PASSIVE FORCE PROTECTION MEASURES		LS	--	--		(23,708)
UTILITY CONNECTION FEES		LS	--	--		(250)
SUBTOTAL						171,736
CONTINGENCY (5.00%)						8,587
TOTAL CONTRACT COST						180,323
SUPERVISION, INSPECTION & OVERHEAD (2.50%)						4,508
TOTAL REQUEST						184,831
TOTAL REQUEST (ROUNDED)						185,000
EQTUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						(11,058)
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
Construct a Surety mission Protective Aircraft Shelter Barrier System. Primary facilities include security fencing, aircraft security gates, vehicle security gates, personnel security gates, access and perimeter control roads, entry control points, and cybersecurity for facility-related control systems. Supporting facilities include site preparation, site improvements, demolition of defensive fighter position, utilities (including relocation of substation DSS BA), pavements, passive force protection, communications, utility connection fees, and generators. Design of the fences, gates, and roads will be guided by Unified Facilities Criteria 3-201-01, Civil Engineering and Unified Facilities Criteria 4-022-03, Security Fences and Gates. The perimeter fence will consist of seven feet high three-strand barbed wire fence. Aircraft and vehicle gates will be M50 (K-12) rated reinforced gates with razor wire and motorized operators. The architectural design of the entry control points will follow Type V rated, Unified Facilities Criteria 4-022-01, Entry Control Facilities/Access Control Points. This project is authorized generators, per Air Force Manual 32-1062.						

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE #1 UNITED KINGDOM		4. PROJECT TITLE SURETY: BARRIER SYSTEMS		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 872-247	7. AF PROJECT NUMBER MSET223003	8. PROJECT COST (\$000) 185,000	
<p>DESCRIPTION OF PROPOSED CONSTRUCTION: (CONTINUED)</p> <p>Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building requirements. This project will comply with Department of Defense Antiterrorism/Force Protection requirements per Unified Facilities Criteria 4-010-01.</p>				
11. REQ: 8,497 LM ADQT: NONE SUBSTD:				
<p>PROJECT: Construct a Protective Aircraft Shelter Barrier System.</p> <p>REQUIREMENT: This project is required to provide a permanent perimeter security system around 22 Protective Aircraft Shelter that will be used to support the Surety mission. The perimeter security system, consisting of double fencing with lighting, surveillance video cameras, intrusion detection system, aircraft and vehicle gates, and vehicle patrol and access roads, is required to ensure no unauthorized personnel can gain access to the Protective Aircraft Shelter and Surety mission assets.</p> <p>CURRENT SITUATION: Royal Air Force Lakenheath has 58 Protective Aircraft Shelters, the majority of which are assigned to and used by aircraft maintenance squadrons. Although the airfield is a restricted area, there currently is no permanent and comprehensive security system surrounding the Protective Aircraft Shelter. In addition to the lack of fencing and access control measures, there are no dedicated lighting, surveillance, or alarm systems installed. Collectively, Royal Air Force Lakenheath lacks the physical security measures needed to protect Surety assets within the Protective Aircraft Shelters from unauthorized access, theft, damage, sabotage, or unauthorized use.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, Royal Air Force Lakenheath will not be able to accommodate the Surety mission beddown. Without a permanent and comprehensive physical security barrier system, 48th Fighter Wing will not be able to implement the safeguarding and physical security measures required for specialized weapons. This limitation will impede mission capability, readiness, and contingency support to ongoing and future operations within the designated European Area of Responsibility.</p> <p>ADDITIONAL: This project meets applicable criteria/scope specified in Department of the Air Force Manual 32-1084, Standard Facility Requirements; Allied Command Operations Directive 80-6/European Command Instruction 6801.01 (dated June 12) with Most Current Supplements (dated 27 August 2013 for Sup 1 and 28 October for Sup 2), 30 October 2013; Department of Defense Manual S-5210.41, Volume 1 (U) Nuclear Weapon</p>				

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE #1 UNITED KINGDOM		4. PROJECT TITLE SURETY: BARRIER SYSTEMS		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 872-247	7. AF PROJECT NUMBER MSET223003	8. PROJECT COST (\$000) 185,000	

ADDITIONAL: (CONTINUED)

Security Manual: The Department of Defense Nuclear Weapon Security Program, dated 11 August 2016; Unified Facilities Criteria 4-022-01, Entry Control Facilities/Access Control Points, dated 27 July 2017; and Unified Facilities Criteria 4-022-03, Security Fences and Gates, dated 1 October 2013. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from other Department of Defense entities. All reasonable alternatives were considered during the development of this project to include status quo, addition/alteration, and new construction. New Construction is the only viable option to meet this requirement. A formal economic analysis is in progress and will be completed before approval of the President's Budget. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. This project was included in the Fiscal Year 2024-2028 future-years' defense plan in FY26. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. The construction growth offset for this requirement is 484 square feet. Supporting Facilities exceed 25% of the Primary Facilities total due to extensive site preparation, site improvements, and passive force protection measures associated with the project. The cost estimate for this project varies from the DoD Facilities Pricing Guide due to high cost uncertainties in the UK construction industry due to BREXIT, COVID, and Ukraine, as well as years of high fluctuating UK vs. US escalation rates.

48th Fighter Wing Base Civil Engineer: +441 638 52 2100

Fence Security/Vehicle Barriers: 8,497 LM = 27,877 LF; Gates: 189 LM = 620 LF; Road: 16,684 SM = 179,585 SF; Access Control Facility: 45 SM = 484 SF

FOREIGN CURRENCY: FCF Budget Rate Used: One U.S. Dollar equals 0.7978 British Pound.

JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components.

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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3. INSTALLATION AND LOCATION RAF LAKENHEATH RAF LAKENHEATH SITE #1 UNITED KINGDOM	4. PROJECT TITLE SURETY: BARRIER SYSTEMS
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5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 872-247	7. AF PROJECT NUMBER MSET223003	8. PROJECT COST (\$000) 185,000
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12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Type of Design	Design-bid-build
(b) Date Design Started	01-NOV-22
(c) Parametric Cost Estimating Used to Develop Costs	YES
(d) Percent Complete as of 01 JAN 2024	65%
(e) Date 35% Designed	01-JUN-23
(f) Date Design Complete	01-MAR-24
(g) Energy Study/Life-cycle analysis was performed	YES

(2) Basis:

(a) Standard or Definitive Design	NO
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(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)

(a) Production of Plans and Specifications	11,100
(b) All Other Design Costs	5,550
(c) Total	16,650
(d) Contract	13,875
(e) In-house	2,775

(4) Construction Contract Award 2025-AUG

(5) Construction Start 2026-MAY

(6) Construction Completion 2029-OCT

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

<u>Equipment Nomenclature</u>	<u>Procuring Approp</u>	<u>Fiscal Year Appropriated or Requested</u>	<u>Cost (\$000)</u>
Electronic Security Systems	3080	2029	11,058

Spend Plan

CAO: 08-Dec-23

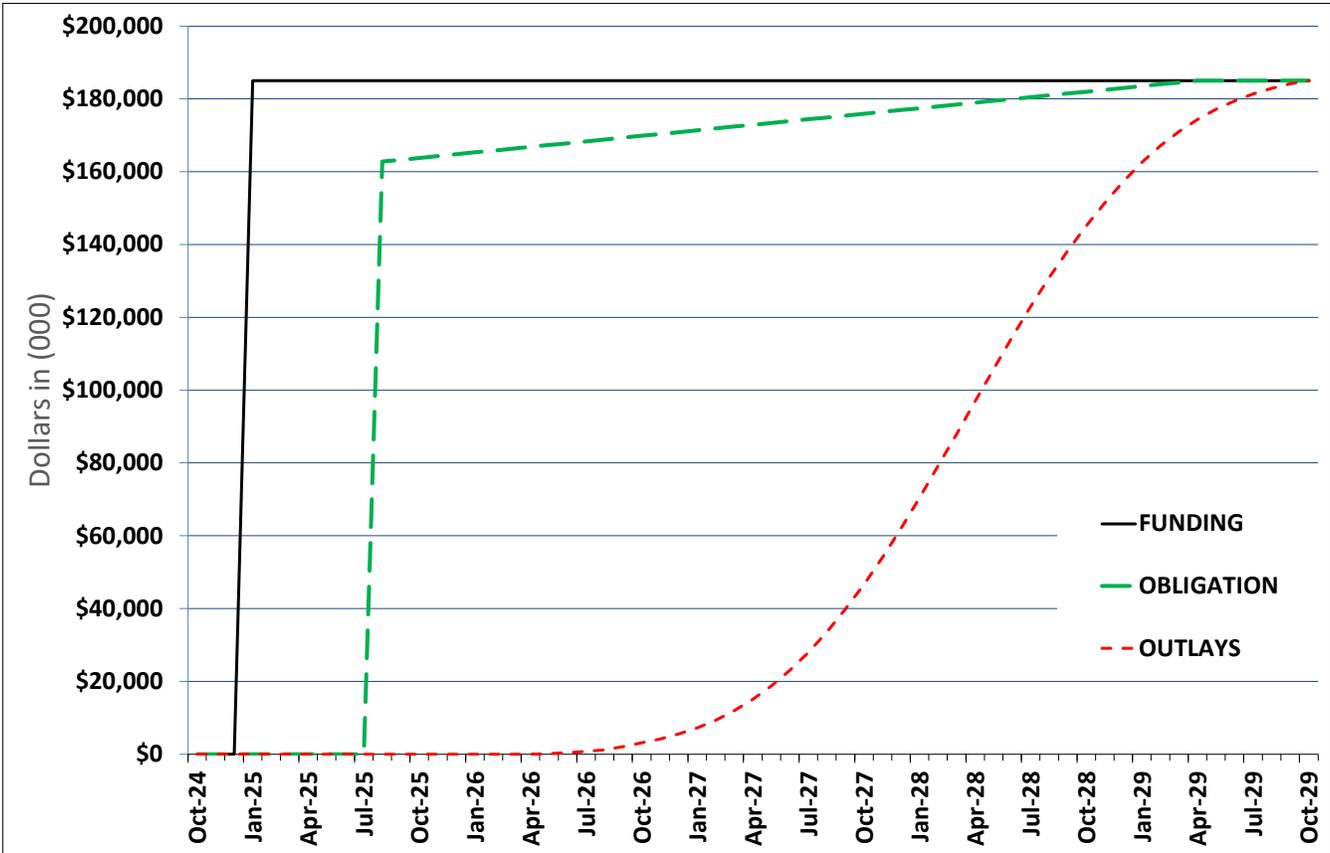
Project Title:	Surety: Barrier System
Installation:	RAF Lakenheath, UK
Program Year	2025
Project #	MSET223003

All Cost in thousands

Chart Begin Oct-24	FUNDING (note 1)		OBLIGATION (note 2-3)		OUTLAYS (note 4)	
	Enacted	Cumulative	Obligated	Cumulative	Monthly	Cumulative
Oct-24	-	-	-	-	-	-
Nov-24	-	-	-	-	-	-
Dec-24	-	-	-	-	-	-
Jan-25	185,000	185,000	-	-	-	-
Feb-25	-	185,000	-	-	-	-
Mar-25	-	185,000	-	-	-	-
Apr-25	-	185,000	-	-	-	-
May-25	-	185,000	-	-	-	-
Jun-25	-	185,000	-	-	-	-
Jul-25	-	185,000	-	-	-	-
Aug-25	-	185,000	162,751	162,751	-	-
Sep-25	-	185,000	506	163,257	-	-
Oct-25	-	185,000	506	163,762	-	-
Nov-25	-	185,000	506	164,268	-	-
Dec-25	-	185,000	506	164,774	-	-
Jan-26	-	185,000	506	165,279	-	-
Feb-26	-	185,000	506	165,785	-	-
Mar-26	-	185,000	506	166,291	-	-
Apr-26	-	185,000	506	166,796	-	-
May-26	-	185,000	506	167,302	184	184
Jun-26	-	185,000	506	167,808	256	439
Jul-26	-	185,000	506	168,313	351	790
Aug-26	-	185,000	506	168,819	474	1,264
Sep-26	-	185,000	506	169,325	829	2,093
Oct-26	-	185,000	506	169,830	1,027	3,120
Nov-26	-	185,000	506	170,336	1,071	4,191
Dec-26	-	185,000	506	170,842	1,365	5,555
Jan-27	-	185,000	506	171,347	1,713	7,269
Feb-27	-	185,000	506	171,853	2,120	9,389
Mar-27	-	185,000	506	172,359	2,585	11,974
Apr-27	-	185,000	506	172,864	3,106	15,080
May-27	-	185,000	506	173,370	3,678	18,758
Jun-27	-	185,000	506	173,876	4,291	23,050
Jul-27	-	185,000	506	174,381	4,934	27,984
Aug-27	-	185,000	506	174,887	5,590	33,574
Sep-27	-	185,000	506	175,393	6,242	39,816
Oct-27	-	185,000	506	175,898	6,867	46,682
Nov-27	-	185,000	506	176,404	7,445	54,127
Dec-27	-	185,000	506	176,910	7,953	62,081
Jan-28	-	185,000	506	177,415	8,373	70,454
Feb-28	-	185,000	506	177,921	8,686	79,140
Mar-28	-	185,000	506	178,427	8,880	88,020
Apr-28	-	185,000	506	178,932	8,945	96,965
May-28	-	185,000	506	179,438	8,880	105,845
Jun-28	-	185,000	506	179,944	8,686	114,531
Jul-28	-	185,000	506	180,449	8,373	122,904
Aug-28	-	185,000	506	180,955	7,953	130,857
Sep-28	-	185,000	506	181,461	7,445	138,302
Oct-28	-	185,000	506	181,966	6,867	145,169
Nov-28	-	185,000	506	182,472	6,242	151,410
Dec-28	-	185,000	506	182,978	5,890	157,301
Jan-29	-	185,000	506	183,483	5,234	162,535
Feb-29	-	185,000	506	183,989	4,591	167,126
Mar-29	-	185,000	506	184,495	3,878	171,004
Apr-29	-	185,000	506	185,000	3,306	174,311
May-29	-	185,000	-	185,000	2,785	177,096
Jun-29	-	185,000	-	185,000	2,320	179,416
Jul-29	-	185,000	-	185,000	1,913	181,329
Aug-29	-	185,000	-	185,000	1,565	182,894
Sep-29	-	185,000	-	185,000	1,171	184,065
Oct-29	-	185,000	-	185,000	935	185,000

Notes	
Note 1:	Assumes initial appropriation is enacted by Congress Jan FY 2025.
Note 2:	Assumes funds are available for obligation by 31 January of the execution year and by 31 October for subsequent years.
Note 3:	Assumes ALL project funds (contract, SIOH, contingency, etc) are obligated NLT 6 months prior to project end
Note 4:	Assumes contract award in AUG 2025 and contract completion OCT 2029; duration 51 months.

Surety: Barrier System, RAF Lakenheath, UK



1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20240201				
3. INSTALLATION AND LOCATION ROYAL AIR FORCE MILDENHALL, UNITED KINGDOM				4. COMMAND UNITES STATES AIR FORCES EUROPE			5. AREA CONTRUCTION COST INDEX 1.06				
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF 30 SEP 23		526	3,790	489	0	0	0	0	0	0	4,805
b. END FY					0	0	0	0	0	0	0
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										1,168	
b. INVENTORY TOTAL AS OF 30-Sep-23										2,311,465.00	
c. AUTHORIZATION NOT YET IN INVENTORY										0.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										51,000.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										0.00	
g. REMAINING DEFICIENCY										721,000.00	
h. GRAND TOTAL										3,083,465.00	
8. PROJ ECTS REQUESTED IN THIS PROGRAM											
a. CATEGORY				b. COST (\$000)		c. DESIGN STATUS					
(1) CODE	(2) PROJ ECT TITLE		(3) SCOPE			(1) START	(2) COMPLETE				
812-225	SOW CAMPUS INFRASTRUCTURE		3,807 LM		51,000	09/22	03/24				
9. FUTURE PROJ ECTS N/A											
10. MISSION OR MAJ OR FUNCTIONS 100 ARW is RAF Mildenhall's host wing and the only permanent strategic forward installation in the European theater providing air refueling capabilities. The 100 ARW conducts air refueling and combat support operations throughout the European & African area of responsibilities. The 352 SOW is the only AF Special Ops unit in the European Theater, it has six squadrons and operates the MC-130J Commando II & CV-22B Osprey. SOW plan & execute specialized & contingency operations using advanced aircraft, tactics & air refueling techniques to infiltrate, exfiltrate & resupply special operations forces, performing long-range missions in austere, hostile, denied &/or politically sensitive territories. They provide the full spectrum of rapidly deployable battle staff & support functions to employ special operations combat airpower in European Command. They conduct the reconnaissance, surveillance, assessment and establishment of assault zone sites & provide air traffic control, long-range secure command & control communications as well as trauma medical care, personnel recovery & terminal attack control of munitions delivered by fixed & rotary-wing aircraft.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES N/A											

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION RAF MILDENHALL RAF MILDENHALL SITE #1 UNITED KINGDOM				4. PROJECT TITLE SOW CAMPUS INFRASTRUCTURE		
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 812-225	7. PROJECT NUMBER QFQE213521		8. PROJECT COST (\$000) 51,000	
9. COST ESTIMATES						
0.8502 POUND/US\$		ITEM	UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES						30,956
PRIMARY DISTRIBUTION LINE UNDERGROU (812-225)		LM	3,807	1,869		(7,115)
UTILITY LINE DUCTS (890-181)		LM	2,073	2,217		(4,596)
ELECTRIC SUBSTATION (813-231)		kVA	3,600	1,064		(3,830)
FIRE PROTECTION WATER STORAGE (843-319)		LS				(2,205)
SANITARY SEWAGE MAIN (832-266)		LM	552	2,286		(1,262)
Total from Continuation page(s)						(11,948)
SUPPORTING FACILITIES						14,589
SITE PREPARATION		LS				(3,089)
SITE IMPROVEMENTS		LS				(98)
DEMOLITION		SM	461	3,104		(1,431)
ENVIRONMENTAL MITIGATION		LS				(9,971)
SUBTOTAL						45,545
CONTINGENCY (5.00%)						2,277
TOTAL CONTRACT COST						47,822
SUPERVISION, INSPECTION AND OVERHEAD (2.50%)						1196
DESIGN/BUILD - DESIGN COST (4.00% OF SUBTOTAL)						1,822
TOTAL REQUEST						50,840
TOTAL REQUEST (ROUNDED)						51,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						(550)
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
<p>The overall site and utility requirements identified are all in support of the construction of an aircraft parking apron with associated taxiways and shoulders required to accommodate nine CV-22 aircraft, CV-22 Three-Bay Hangar/Aircraft Maintenance Unit/Covered Storage Facility, Special Operations Wing Headquarters Facility, Special Operations Support Squadron Facility, CV-22 and MC-130J Simulator Facility, CV-22 Squadron Operations Facility, Special Tactics Squadron Operations Facility and Aquatics Training Facility. Work shall include all subgrade and subbase preparation, drainage, fencing, area lighting, and other necessary airfield and campus support. Project provides new campus access roadways, utilities, site improvements, communications, and realignment of existing infrastructure. The project also includes demolition of existing airfield pavements and other site horizontal structures, mitigation for possible unexploded ordnance (as required), and construction of roadway entrances into the campus area. Work shall include the demolition and relocation of current fire training facility and associated support structures. The project will demolish buildings 713 (26 SM), 716 (49 SM), 783 (174 SM), 1062 (154 SM), and 1321 (58 SM) (Total: 461 SM). All work carried out shall include the requirements identified in the AF813-0 Request for Overseas Environmental Impact Analysis and as identified in the Certificate of Compliance for Critical Planning Actions to include environmental mitigation as required. Project will consider Special Sites of Scientific Interest and will accomplish a Habitat Regulation Assessment and incorporate any scope considerations, if required. Additionally, all projects affecting biodiversity will ensure a replacement of 110% to meet the Host Nation Biodiversity Net Gain regulation. This project shall meet all requirements of</p>						

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION RAF MILDENHALL RAF MILDENHALL SITE #1 UNITED KINGDOM			4. PROJECT TITLE SOW CAMPUS INFRASTRUCTURE			
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 812-225	7. PROJECT NUMBER QFQE213521		8. PROJECT COST (\$000) 51,000	
9. COST ESTIMATES (CONTINUED)						
ITEM		UM	QUANTITY	UNIT COST	COST (\$000)	
PRIMARY FACILITIES (CONTINUED)						
STORM DRAINAGE DISPOSAL (871-183)		LM	1,236	909	(1,124)	
FIREMAN TRAINING FACILITY (179-511)		SM	270	12,266	(3,312)	
WATER DISTRIBUTION MAINS (842-245)		LM	1,608	1131	(1,819)	
ROAD (851-147)		SM	11,116	113	(1256)	
WATER FIRE PUMPING STATION (843-316)		EA	1	2,063,000	(2,063)	
EXTERIOR AREA LIGHTING (812-926)		LM	1,067	1,991	(2,124)	
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS		Ls			(250)	
				Total	11,948	
<p>Military Handbook 1190, Facility Planning and Design Guide, Department of the Air Force Handbook 32-1084, Facility Requirements, United States Air Force in Europe and Air Force in Africa Instruction 32-1007, Department of the Air Force Guidance Memorandum, Civil Engineer Control Systems Cybersecurity and ICD 705 Premium requirements to ensure accreditation. Facilities shall be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building Requirements and Department of the Air Force Handbook 32-1084, Facility Requirements. This project shall incorporate all required sustainable principles, and these shall be integrated into the project design, development, and construction in accordance with Executive Orders, Unified facility Criteria and other applicable laws. All work carried out must comply with Department of Defense Anti-Terrorism/Force Protection requirements per Unified Facility Criteria 4-010-01, Department of Defense Minimum Antiterrorism Standards for Buildings and all other relevant Unified Facilities Criteria, Air Force Instructions, National Fire Protection Association regulations, United Kingdom Building Regulations, and Royal Air Force Mildenhall Base Standards and comply with United States Air Force and Host Nation regulations and agreements. The country-to-country agreement precludes the use of International Competitive Bidding proceedings in the United Kingdom. All known alternative options were considered during the development of this project.</p>						
11. REQ: 3,807 LM		ADQT: 0		SUBSTD: 461 SM		
PROJECT: SITE DEVELOPMENT & INFRASTRUCTURE, SPECIAL OPERATIONS WING CAMPUS						
REQUIREMENT: Provide adequate utilities, facilities, and infrastructure properly sized and configured to support the collocation and consolidation of the 352nd Special Operations Wing operational mission campus at Royal Air Force Mildenhall, United Kingdom. Facilities must support the 352 Special Operation Wing's mission to plan and perform specialized operations using advanced aircraft, tactics and air refueling techniques to transport and resupply military forces. This is a tenant-						

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION RAF MILDENHALL RAF MILDENHALL SITE #1 UNITED KINGDOM		4. PROJECT TITLE SOW CAMPUS INFRASTRUCTURE		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 812-225	7. PROJECT NUMBER QFQE213521	8. PROJECT COST (\$000) 51,000	
supported service requirement.				
<p>CURRENT SITUATION:</p> <p>As the only Air Force Special Operations unit in the European and Africa Commands, the 352 Special Operation Wing must maintain peak operational readiness 24/7/365 for immediate response to execute its mission. RAF Mildenhall accommodated the arrival of the 352 Special Operation Wing; however, wing personnel are geographically dispersed in 47+ facilities inadequately sized and configured for the specific Special Operations mission requirements. Most are aged facilities in poor state of repair, particularly the aircraft parking aprons, aircraft maintenance hangars, and Special Operations Squadron's operational mission postured facilities. Use of existing facilities will require significant and costly renovations to facilities that are geographically separated and distances away from training simulators, aircraft hangars, and the aircraft parking apron. This would leave wing personnel, aircraft, equipment, and assets scattered throughout the installation. This situation will perpetuate continuance of degraded mission effectiveness, daily operations, and operational readiness of the unit, compromising the 352 Special Operation Wing's ability to rapidly respond to Combatant Command and President of the United States mission tasking.</p>				
<p>IMPACT IF NOT PROVIDED:</p> <p>Without this site development and infrastructure project to support the collective, mission focused, optimally arranged, collocated operational readiness, and postured 352 Special Operation Wing campus, the 1,000+ Air Force personnel will remain in inefficient, scattered, and inadequately sized/configured facilities. The 352 Special Operation Wing personnel, charged with providing specialized operations using advanced aircraft, tactics, and air refueling techniques to transport and resupply military forces, will continue to experience degraded daily aircraft maintenance, and launch operations because they operate with a shortage in required aircraft parking apron space, hangar bays, back shops, secured mission planning space, simulated training rooms, and operating space. The lack of adequate hangar facilities will continue to degrade maintenance turn-around times, reducing aircraft mission capability rates. Without covered maintenance space, inclement weather and darkness will continue to directly impact mission readiness. Lack of secure areas needed to support the multiple intelligence operations will continue to severely degrade operational capability for the 25th Intelligence Squadron, Special Advisor, Joint Air Operations Command, and Joint Special Operations Air Component on Europe.</p>				
<p>ADDITIONAL:</p> <p>This project meets the criteria/scope specified in Department of the Air Force Manual 32-1084, Facility Requirements, Air Force Special Operations Instruction 32-1084, and Unified Facility Criteria 3-260-1, Airfield & Heliport Planning & Design (and/or United States Air Force in Europe & Air Force in Africa 32-1007, Airfield and Heliport Planning and Design). This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards but will not employ a standard facility design because there is no Air Force standard facility design for this type of project and there is no</p>				

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION RAF MILDENHALL RAF MILDENHALL SITE #1 UNITED KINGDOM		4. PROJECT TITLE SOW CAMPUS INFRASTRUCTURE		
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 812-225	7. PROJECT NUMBER QFQE213521	8. PROJECT COST (\$000) 51,000	
<p>applicable standard design from the Host Nation Defense Infrastructure Organization. A formal economic analysis is in progress. Sustainable principles, to include life-cycle cost- effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. This project was included in the Fiscal Year 2024-2028 future-years defense plan in Fiscal Year 2025. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. This project does not require a construction growth offset as it results in a 2,056 square feet reduction/credit. The Supporting Facilities cost exceed 25% of the Primary facilities cost due to the extensive site preparation required for future construction.</p> <p>The cost estimate for this project varies from the DoD Facilities Pricing Guide due to high cost uncertainties in the UK construction industry due to BREXIT, COVID, and Ukraine, as well as years of high fluctuating UK versus US escalation rates.</p> <p>100th Fighter Wing Base Civil Engineer: +44 (0)1638 542205</p> <p>Primary Distribution Line Underground: 3,807 LM = 12,490 LF; Utility Line Ducts: 2,073 LM = 6,801 LF; Sanitary Sewage Main: 552 LM = 1,811 LF; Storm Drainage Disposal: 1,236 LM = 4,055 LF; Fireman Training Facility: 270 SM = 2,906 SF; Water Distribution Mains: 1,608 LM = 5,276 LF; Road & Parking Pavements: 11,116 SM = 119,652 SF; Exterior Area Lighting: 1,067 LM = 3,501 LF. Demolition: 461 SM = 4,962 SF.</p> <p>FOREIGN CURRENCY: FCF Budget Rate Used: One U.S. Dollar equals 0.7978 British Pounds.</p> <p>JOINT USE CERTIFICATION: This is an installation utility/infrastructure project and does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project.</p> <p>NATO SECURITY INVESTMENT:</p> <p>North Atlantic Treaty Organization eligibility for this project has not yet been established. However, a precautionary pre-finance statement will be filed in the event eligibility is established.</p>				

1. COMPONENT		FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE	
AIR FORCE				FEBRUARY 2024	
3. INSTALLATION AND LOCATION			4. PROJECT TITLE		
RAF MILDENHALL RAF MILDENHALL SITE #1 UNITED KINGDOM			SOW CAMPUS INFRASTRUCTURE		
5. PROGRAM ELEMENT		6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)	
91211F		812-225	QFQE213521	51,000	
12. SUPPLEMENTAL DATA:					
a. Estimated Design Data:					
(1) Status:					
(a) Type of Design				Design-Build	
(b) Date Design Started				01-SEP-22	
(c) Parametric Cost Estimating Used to Develop Costs				YES	
(d) Percent Complete as of 01 JAN 2024				95%	
(e) Date 35% Designed				01-MAY-23	
(f) Date Design Complete				01-MAR-24	
(g) Energy Study/Life-cycle analysis was performed				YES	
(2) Basis:					
(a) Standard or Definitive Design				NO	
(3) Total Design Cost (c) = (a)+(b) or (d)+(e) (\$000)					
(a) Production of Plans and Specifications				2,040	
(b) All Other Design Costs				1,020	
(c) Total				3,060	
(d) Contract				2,550	
(e) In-house				510	
(4) Construction Contract Award				2025-MAY	
(5) Construction Start				2026-AUG	
(6) Construction Completion				2028-AUG	
b. Equipment associated with this project provided from other appropriations:					
<u>EQUIPMENT NOMENCLATURE</u>		<u>PROCURING APPROP</u>	<u>FISCAL YEAR APPROPRIATED OR REQUESTED</u>	<u>COST(\$000)</u>	
Collateral & C4I Equipment		3400	2028	350	
Furniture, Fixtures & Equipmen		3400	2028	200	

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION WORLDWIDE UNSPECIFIED VARIOUS LOCATIONS			4. PROJECT TITLE PLANNING AND DESIGN			
5. PROGRAM ELEMENT 91211F		6. CATEGORY CODE 961-000	7. PROJECT NUMBER PAYZ250002		8. PROJECT COST (\$000) 355,011	
9. COST ESTIMATES						
1.0000 U.S. DOLLAR/US\$		ITEM	UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES						355,011
PLANNING AND DESIGN (91211F)			LS			(173,419)
PLANNING AND DESIGN (11233F)			LS			(70,000)
PLANNING AND DESIGN (27142F)			LS			(14,237)
PLANNING AND DESIGN (64015F)			LS			(11,955)
PLANNING AND DESIGN (27110F)			LS			(80,400)
PLANNING AND DESIGN (84701F)			LS			(5,000)
SUPPORTING FACILITIES						
SUBTOTAL						355,011
CONTINGENCY (0.00%)						0
TOTAL CONTRACT COST						355,011
SUPERVISION, INSPECTION AND OVERHEAD (0.00%)						0
TOTAL REQUEST						355,011
TOTAL REQUEST (ROUNDED)						355,011
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
N/A						
11. REQ:		0	ADQT:		0	SUBSTD: 0
PROJECT: As required						
REQUIREMENT: These planning and design funds are required to complete the design of facilities for the FY 2025 Military Construction Program, initiate design of facilities for the FY 2026 Military Construction Program, and accomplish planning and design for major and complex technical projects with long lead-times to be included in subsequent Military Construction programs. These funds may be used for value engineering and for support of the design and construction management of projects that are funded by foreign governments and for design of classified and special programs. The funds may also be used for developing the Tri-Services Cost Estimating Guide and Unified Facilities Criteria.						

1. COMPONENT SPACE FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION WORLDWIDE UNSPECIFIED VARIOUS LOCATIONS			4. PROJECT TITLE PLANNING AND DESIGN			
5. PROGRAM ELEMENT 91211S		6. CATEGORY CODE 961-000	7. AF PROJECT NUMBER PAYZ250010		8. PROJECT COST (\$000) 84,915	
9. COST ESTIMATES						
1.0000 U.S. DOLLAR/US\$		ITEM	UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITY		PLANNING AND DESIGN (961-000)	LS	--	--	84,915 (84,915)
SUPPORTING FACILITIES						
ESTIMATED CONTRACT COST						84,915
CONTINGENCY (0.00%)						0
SUBTOTAL						84,915
SUPERVISION, INSPECTION & OVERHEAD (0.00%)						0
TOTAL REQUEST						84,915
TOTAL REQUEST (ROUNDED)						84,915
INSTALLED EQT-OTHER APPROPRIATIONS						(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
N/A						
11. REQ:		NONE	ADQT:	NONE	SUBSTD:	NONE
PROJECT: As required						
REQUIREMENT: These planning and design funds are required to complete the design of facilities for the U.S. Space Force FY 2026 Military Construction Program, initiate design of facilities for the FY 2027 Military Construction Program, and accomplish planning and design for major and complex technical projects with long lead-times to be included in subsequent Military Construction programs. These funds may be used for value engineering and for support of the design and construction management of projects that are funded by foreign governments and for design of classified and special programs. The funds may also be used for developing the Tri-Services Cost Estimating Guide and Unified Facilities Criteria.						

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024		
3. INSTALLATION AND LOCATION WORLDWIDE UNSPECIFIED VARIOUS LOCATIONS		4. PROJECT TITLE UNSPECIFIED MINOR MILITARY CONSTRUCTION				
5. PROGRAM ELEMENT 91211F	6. CATEGORY CODE 962-000	7. PROJECT NUMBER PAYZ250003	8. PROJECT COST (\$000) 104,700			
9. COST ESTIMATES						
1.0000 U.S. Dollar/US\$		ITEM	UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITIES						104,700
UNSPECIFIED MINOR MILITARY CONSTRUCTION (91211F)		LS				(64,000)
UNSPECIFIED MINOR MILITARY CONSTRUCTION (41221F)		LS				(13,600)
UNSPECIFIED MINOR MILITARY CONSTRUCTION (84701F)		LS				(27,100)
SUPPORTING FACILITIES						
SUBTOTAL						104,700
CONTINGENCY (0.00%)						0
TOTAL CONTRACT COST						104,700
SUPERVISION, INSPECTION AND OVERHEAD (0.00%)						0
TOTAL REQUEST						104,700
TOTAL REQUEST (ROUNDED)						104,700
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)						(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
11. REQ: 0 ADQT: 0 SUBSTD: 0						
REQUIREMENT: Minor construction projects authorized by 10 U.S. Code 2805 are military construction projects with an estimated funded cost of more than \$4,000,000 and equal or less than \$9,000,000. This authority provides a means of accomplishing projects that are not identified but which are anticipated to arise during FY 2025. Included would be projects to support new mission requirements, new equipment, and other essential support to Air Force missions.						

1. COMPONENT SPACE FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION WORLDWIDE UNSPECIFIED VARIOUS LOCATIONS			4. PROJECT TITLE UNSPECIFIED MINOR MILITARY CONSTRUCTION			
5. PROGRAM ELEMENT 91211S		6. CATEGORY CODE 962-000	7. AF PROJECT NUMBER PAYZ250011		8. PROJECT COST (\$000) 24,900	
9. COST ESTIMATES						
1.0000 U.S. Dollar/US\$		ITEM	UM	QUANTITY	UNIT COST	COST(\$000)
PRIMARY FACILITY		UNSPECIFIED MINOR MILITARY CONSTRUCTION (91211S)	LS	--	--	24,900 (24,900)
SUPPORTING FACILITIES						
ESTIMATED CONTRACT COST						24,900
CONTINGENCY (0.00%)						0
SUBTOTAL						24,900
SUPERVISION, INSPECTION & OVERHEAD (0.00%)						0
TOTAL REQUEST						24,900
TOTAL REQUEST (ROUNDED)						24,900
INSTALLED EQT-OTHER APPROPRIATIONS						(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
11. REQ:		NONE	ADQT:		NONE	SUBSTD: NONE
<p>REQUIREMENT: Minor construction projects authorized by 10 U.S. Code 2805 are military construction projects with an estimated funded cost of not more than \$9,000,000. This authority provides a means of accomplishing projects that are not identified but which are anticipated to arise during FY 2025. Included would be projects to support new mission requirements, new equipment, and other essential support to US Space Force missions.</p>						



Department of the Air Force

Host Nation Funded Military Construction Program

Fiscal Year (FY) 2025 Budget Estimates

**Justification Data Submitted to
Congress Feb 2024**

**DEPARTMENT OF THE AIR FORCE
HOST NATION MILITARY CONSTRUCTION PROGRAM CALENDAR YEAR 2025
TABLE OF CONTENTS**

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4. Military Construction Projects.....	213

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**DEPARTMENT OF THE AIR FORCE
HOST NATION MILITARY CONSTRUCTION PROGRAM CALENDAR YEAR 2025
PROGRAM SUMMARY**

**Authorization Request
(\$000s)**

Military Construction

Major Construction	447,600
---------------------------	----------------

Total Military Construction	447,600
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Strategic Narrative:

The enclosed justification book represents the United States Air Forces Korea (USFK) Republic of Korea and United State European Command (EUCOM) Host Nation Funded Construction program for calendar year 2025. Although the justification book may appear to be a list of individual projects, these projects were developed in coordination between both countries to form an overall consolidated program to meet priorities and Theater Infrastructure Master Plan – Armistice objectives. These projects have been through a detailed scoring and prioritization process with involvement of the component commanders and represent the most critical and urgent operational requirements.

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**DEPARTMENT OF THE AIR FORCE
 HOST NATION MILITARY CONSTRUCTION PROGRAM
 CALENDAR YEAR 2025 INDEX
 (DOLLARS IN THOUSANDS)**

STATE/COUNTRY	INSTALLATION	PROJECT	COST (\$000)	
REPUBLIC OF KOREA	Daegu Air Base	Upgrade Water Distribution System	9,600	
		Daegu Air Base TOTAL:	9,600	
	Kunsan Air Base	Collective Protection System (CPS) Dormitory	140,000	
		Combat Small Arms Range	31,000	
		Fighter Squadron & Fighter Generation Squadron Ops Facility	46,000	
		Kunsan Air Base TOTAL:	217,000	
	Osan Air Base	Distributed Mission Operations (DMO) Flight Simulator	15,000	
		Osan Air Base TOTAL:	15,000	
	REPUBLIC OF KOREA TOTAL:			241,600
	REPUBLIC OF POLAND	Lask Air Base	AT/FP Upgrades	22,000
Communications Infrastructure			18,000	
Ground Communications and Data Support Area			5,000	
RPA Maintenance Hangar			69,000	
RPA Parking Apron			18,000	
Taxiways			18,000	
Lask Air Base TOTAL:			150,000	
Wroclaw Air Base		AT/FP Upgrades	46,000	
		Communications Infrastructure	10,000	
		Wroclaw Air Base TOTAL:	56,000	
REPUBLIC OF POLAND TOTAL:			206,000	
HOST NATION FUNDED CONSTRUCTION TOTAL:			447,600	

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: FEBRUARY 2024
3. INSTALLATION AND LOCATION: DAEGU AIR BASE, KOREA		4. PROJECT TITLE: UPGRADE WATER DISTRIBUTION SYSTEM, A16R700	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 842-245	7. PROJECT NUMBER: A16R700	8. PROJECT COST (\$000) 9,600

CURRENT SITUATION:

The existing system is 49 years old and does not have adequate capacity to meet fire protection flow rate requirements of Unified Facilities Criteria (UFC) 3-600-01, Fire Protection Engineering for Facilities. The building 5000 area is isolated with dead ends on the south side of the airfield causing reduced flow rates for thirteen (13) critical facilities. There are also no fire hydrants on the west side of building 5000 area, creating a high potential for fire hazard in these buildings. Additionally, the POL area is facing similar risks due to the lack of water storage capacity needed for fire protection.

IMPACT IF NOT PROVIDED:

Base leadership will have to continue to accept the risk that the POL/building 5000 areas will not be properly equipped to defend against fire hazards. Fire protection will continue to be compromised in peacetime and remain inadequate for war fighting; risking the life, health, and safety of base personnel and assets.

ADDITIONAL:

No portion of this facility is intended for Republic of Korea personnel exclusive or primary use. This project is located on an enduring installation which will be retained by United States Forces Korea (USFK) for the foreseeable future. The FASC Task (#3469) has been completed (Acquisition Number PAC-155, Easement, dated 14 Apr 2016). Since the proposed location is underground, the Department of Defense Explosives Safety Board (DDESB) approval of the Explosive Safety Site Plan (ESSP) is not required.

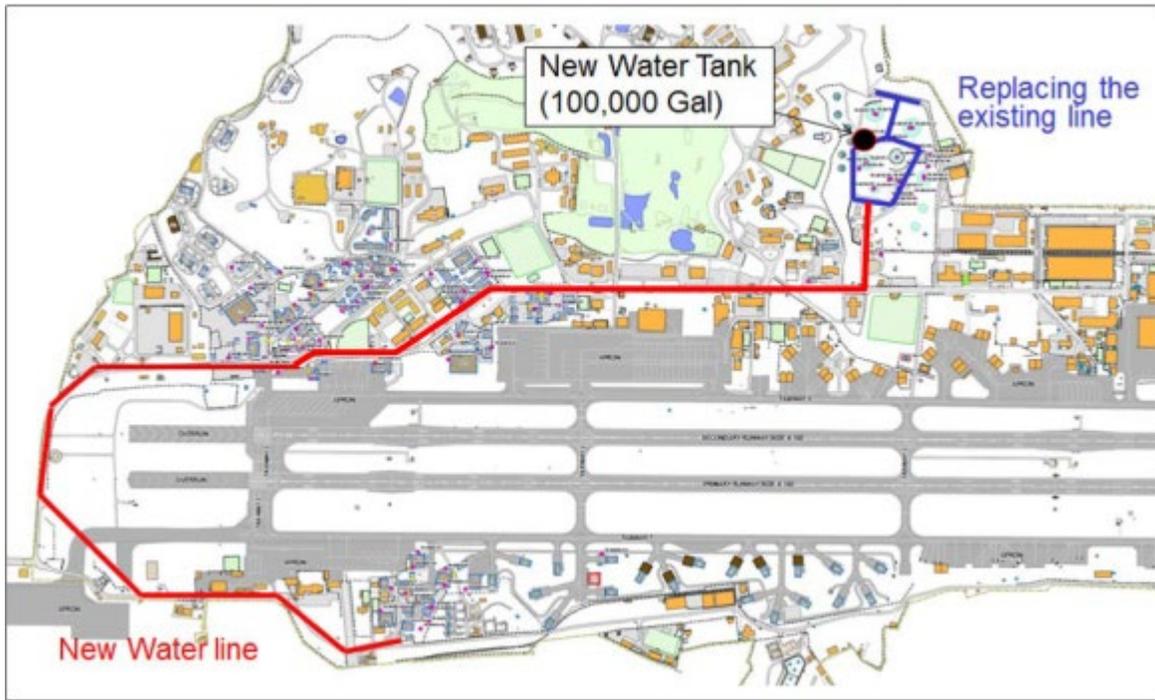
JOINT USE CERTIFICATION:

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

Upgrade Water Distribution System: 20,955 LF

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: FEBRUARY 2024
3. INSTALLATION AND LOCATION: DAEGU AIR BASE, KOREA		4. PROJECT TITLE: UPGRADE WATER DISTRIBUTION SYSTEM, A16R700	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 842-245	7. PROJECT NUMBER: A16R700	8. PROJECT COST (\$000) 9,600

LOCATION PLAN



The FASC Task (#3469) has been completed (Acquisition Number PAC-155, Easement, dated 14 Apr 2016)

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: FEBRUARY 2024
3. INSTALLATION AND LOCATION: DAEGU AIR BASE, KOREA		4. PROJECT TITLE: UPGRADE WATER DISTRIBUTION SYSTEM, A16R700	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 842-245	7. PROJECT NUMBER: A16R700	8. PROJECT COST (\$000) 9,600

12. Supplemental Data;

a. Estimated Design Data;

(1) Status		
(a) Date Design Started		
(b) Parametric Cost Estimates used to develop costs		YES
* (c) Percent Complete as of Dec 2015		YES
* (d) Date Design 35% Complete		YES
(e) Date Design 100% Complete		YES, Refresh is required
(f) Energy Study and Life Cycle Analysis Performed		NO
(2) Basis		
(a) Standard or Definitive Design		NO
(b) Where Design Was Most Recently Used		
(3) Total Cost (c) = (a) + (b) or (d) + (e):		
(a) Date Design Refresh Started		0
(b) Where Design Was Most Recently Used		0
(c) Total		0
(d) Contract		0
(e) In-house		0
(4) Construction Contract Award		2025
(5) Construction Start		2025
(6) Construction Completion		2027

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 100% design to ensure valid scope, cost, and execution.

b. Equipment associated with this project provided from other appropriations: Furniture, furnishings, and equipment such as housing unit furniture, furnishings, and appliances shall be funded by other appropriations.

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)			2. DATE: FEBRUARY 2024																																																																																																																																							
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2. Concrete work	CM	104	4,330.8	450.4																																																																																																																																							
3. Scaffolding and Support	CM	335	87.6	29.3																																																																																																																																							
ELECTRICAL WORK				696.8																																																																																																																																							
1. Pump house lighting, Power system	LM	549	98.4	54.0																																																																																																																																							
2. Underground Secondary Line	LM	132	667.0	88.0																																																																																																																																							
3. Communication System	LS	1	550,000.0	550.0																																																																																																																																							
4. Shop Drawings	LS	1	4,734.9	4.7																																																																																																																																							
CYBER SECURITY	LS	1	250,000.0	250.0																																																																																																																																							
Sub Total				8,621.8																																																																																																																																							
Contingency (5%)				431.1																																																																																																																																							
Total Contract Cost				9,052.9																																																																																																																																							
SIOH (6.0%)				543.2																																																																																																																																							
Total Funded Cost				9,596.1																																																																																																																																							

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE: FEBRUARY 2024
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA		
4. PROJECT TITLE COLLECTIVE PROTECTION SYSTEM DORMITORY		5. PROJECT NUMBER F12R202 (MLWR103166)
<p>Properly designed, adequately configured and furnished quarters are essential to the successful accomplishment of the increasingly complicated and important jobs Airmen and Soldiers must perform and essential to maintain their ability to "Fight Tonight". A major Air Force objective is to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation, and personal wellbeing. Retention of these highly trained Airmen is essential to Air Force readiness and ability to meet worldwide commitments. Chemical-biological collective protections are required to defend personnel from theater threats at this in-place war-fighting base. This project is submitted in accordance with the Air Force Dormitory Master Plan that requires on-base housing for 100% of the military population at remote overseas bases.</p>		
<p>CURRENT SITUATION: Kunsan Air Base is an unaccompanied, remote tour requiring on-base housing for 100% of the base's military population. Adequate space to house 100% of remotely assigned personnel is essential for the morale, force protection, security, and mission effectiveness of the 8th Fighter Wing. Even though the 2018 Air Force Dorm Master Plan Update reports Kunsan has no deficit of rooms, most dormitories were built in 1980's and do not meet the current standards for E-5/E-6 housing. Additionally, there are not enough rooms to provide swing space to renovate and repair the existing dormitories. There are currently only 1458 Collective Protection System rooms available for use. The existing protected dorms do not provide enough protected space for the existing population, let alone the ability to "Accept Follow-on Forces" effectively tripling the population. The existing dormitories have been experiencing significant infrastructure problems as they approach their end-of-lifecycle and will require millions of dollars to repair back to acceptable condition. The existing conditions and work order backlog requires a dedicated operations team to control. The current work order turn-around for a dorm maintenance request is 3 months. The dorms were responsible for 20% of emergency work tasks logged in 2018. This project is required to demolish and replace existing antiquated dorms and to support current operations.</p>		
<p>IMPACT IF NOT PROVIDED: Without this project, adequate living quarters that provide a level of privacy, required for today's Airmen and Soldiers, will not be available, resulting in degradation of morale, productivity, and the ability to Fight Tonight for unaccompanied enlisted personnel. Continuing to double-up in deficient, unprotected facilities will degrade the survivability of Airmen and Soldiers at this in-place, war-fighting base. This dorm would support up to double (768 pax) the regular personnel during contingencies to provide adequate chemical protection for Follow-on Forces. Without protected and adequate sleeping quarters, the ability of airmen to survive and maintain readiness to "Take the Fight North" and "Fight Tonight" is directly impacted. Lastly, Kunsan Air Base will continue to invest in the \$30M dorm repair plan over the next 5 years to limp them along until a suitable replacement can be funded.</p>		
<p>ADDITIONAL:</p> <p>A. JOINT USE CERTIFICATE: For United States exclusive use. The facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.</p> <p>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. The possibility of Host Nation funding has been addressed to support this requirement.</p> <p>C. PHYSICAL SECURITY: This project has been coordinated with the installation physical security plan, and all physical security measures are included.</p>		

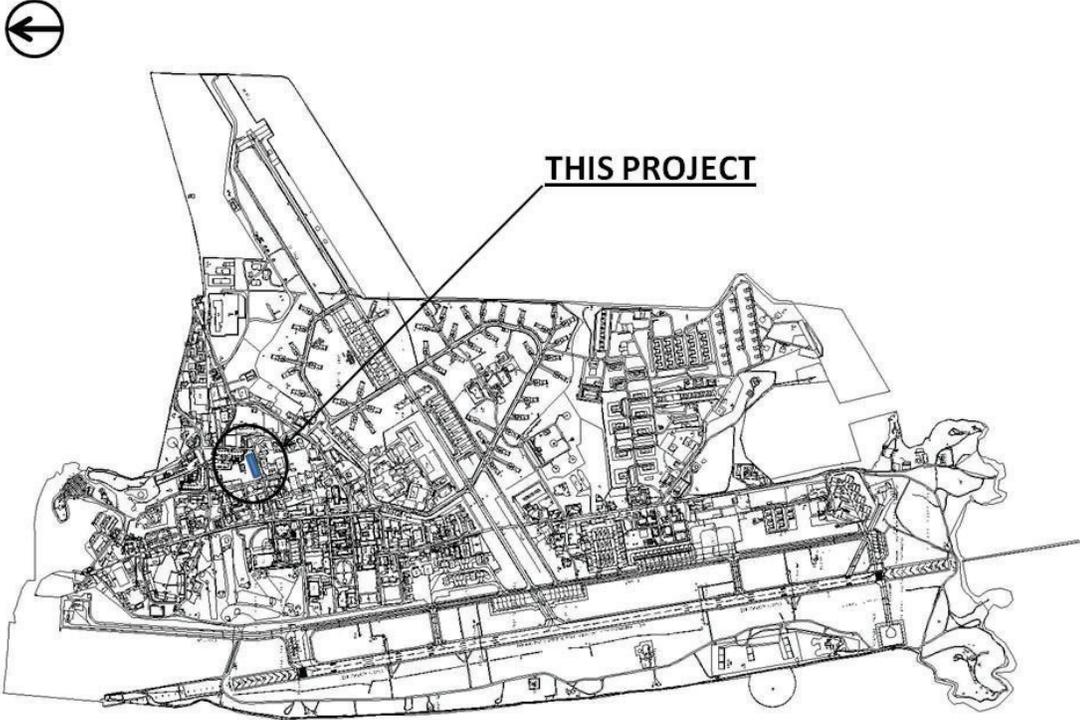
1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE: FEBRUARY 2024
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA		
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<p>D. ANTI TERRORISM/FORCE PROTECTION: All of the 21 Building Standards for Antiterrorism/Force Protections (AT/FP) will apply to this project, including a Mass Notification System, and site measures, which are outlined in Unified Facilities Criteria 4-010-01. All facilities will meet current Unified Facilities Criteria 4-010-01 standards for buildings and site. Major Antiterrorism/Force Protection building features will include design for progressive collapse and blast resistant windows and an Emergency Air Distribution Shutoff, ensuring any roof access prevents anyone from entering the building by utilizing locking mechanism, and caged ladders that can be locked to prevent access.</p> <p>E. SUSTAINABLE DESIGN AND DEVELOPMENT (SDD): Sustainable principles shall be integrated into the design, development, and construction of this project. 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 American Society of Heating, Refrigerating and Air-Conditioning Engineers (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 the Federal Energy Management Program.</p> <p>F. Full fire protection is required by regulation and Unified Facilities Criteria 3-600-01 to include a fire alarm/suppression system; mass notification system (MNS) as required by Unified Facilities Criteria 4-010-01; access control systems; and connection to the utility monitoring control system (UMCS). Fire Alarm panels shall include zone module cards that can support 16 zones. These additional zones are required to transmit exact location data to the fire alarm computer located at the fire department emergency communication center through the use of a building transmitter installed meeting the building design.</p> <p>G. STANDARD DESIGN: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, and all applicable federal and host nation requirements. The design shall employ the standard facility design as per the Unaccompanied Housing and Permanent Party Enlisted Dormitory Design Guides.</p> <p>H. Comprehensive interior design package for the Architectural & Engineering (AE) firm to complete as required by Unified Facilities Criteria 3-120-10.</p> <p>I. No portion of this facility is intended for Republic of Korea personnel exclusive or primary use.</p> <p>J. The supporting facilities costs does not exceed 25% of the primary facilities costs.</p> <p>K. Flood Plain Statement: This project does not fall within or partly within the 100-year flood plain.</p> <p>L. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>M. Dormitory (384 PN): 16,512 SM (177,735 SF); Demolition: 9,462 SM (101,850 SF) – B1401, 1402 and 1407.</p>		

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4. PROJECT TITLE COLLECTIVE PROTECTION SYSTEM DORMITORY		5. PROJECT NUMBER F12R202 (MLWR103166)	
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	Jun 2022		
(c) Parametric Cost Estimates used to develop costs	Yes		
*(d) Percent Complete	N/A		
*(e) Date 35% Designed	Jan 2023		
(f) Date Design Complete	Sep 2024		
(g) Energy Study/Life-Cycle analysis was/will be performed	Yes		
(2) Basis:			
(a) Standard or Definitive Design -	Yes		
(b) Where Design Was Most Recently Used -	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e) : (\$000)			
(a) Production of Plans and Specifications	0		
(b) All other Design Costs	0		
(c) Total	0		
(d) Contract	0		
(e) In-house	0		
(4) Construction Contract Award	Feb 2025		
(5) Construction Start	Apr 2025		
(6) Construction Completion	Mar 2027		
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost, and executability.			
b. Equipment associated with this project provided from other appropriations:			
<u>Equipment Nomenclature</u>	<u>Procuring Appropriation</u>	<u>Fiscal Year Appropriated or Requested</u>	<u>Cost (\$000)</u>
Furniture, Furnishings & Equipment	3080	2027	1,868
Communications Equipment	3080	2027	102
c. Explosive Safety Quantity-Distance (Q-D) Siting: No Department of Defense Explosive Safety Board (DDESB): N/A			
d. Facilities and Areas Sub-Committee (FASC) Task: N/A			

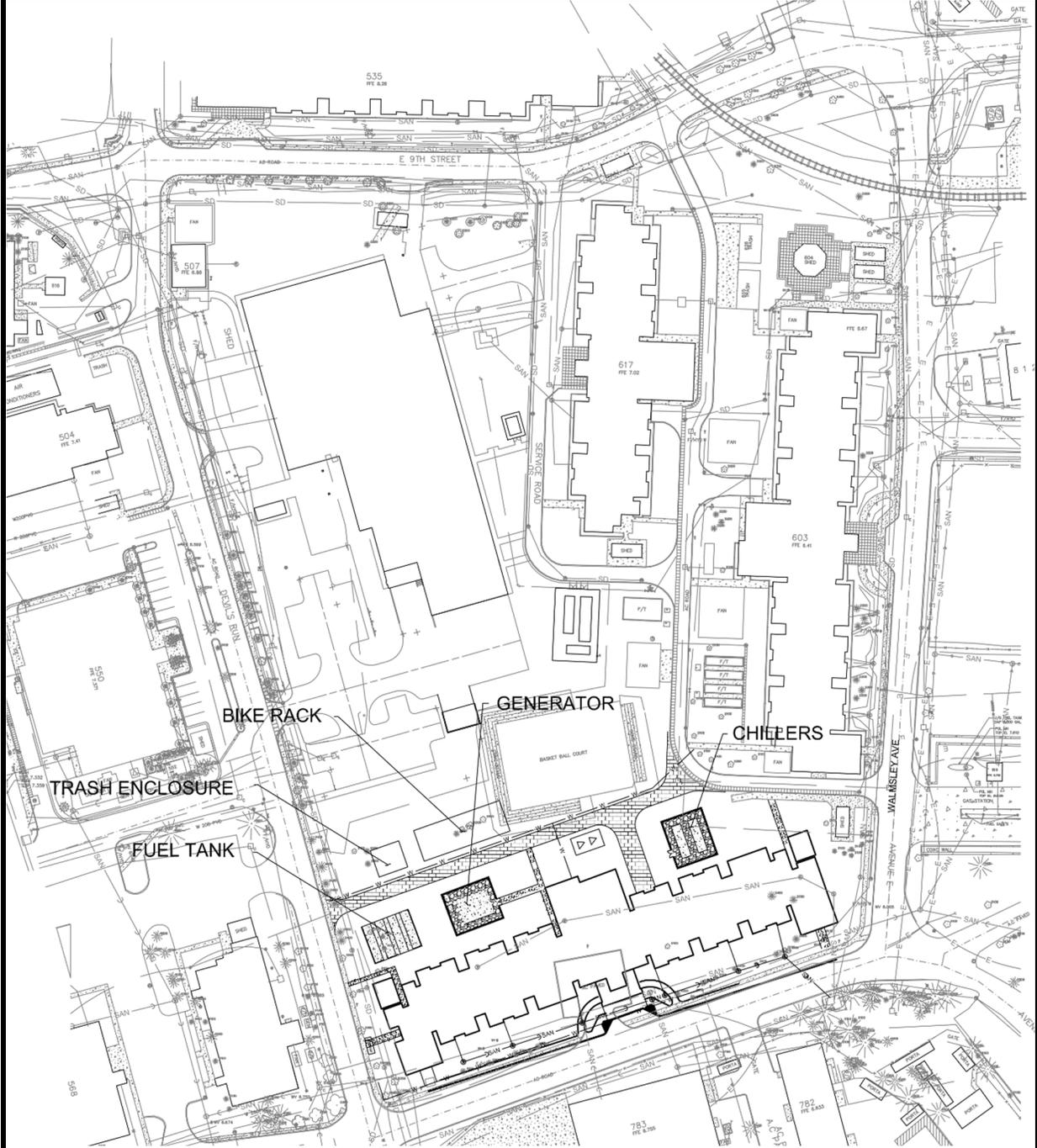
1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE: FEBRUARY 2024		
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA				
4. PROJECT TITLE COLLECTIVE PROTECTION SYSTEM DORMITORY	5. PROJECT NUMBER F12R202 (MLWR103166)			
<u>EXISTING FACILITIES/DEFICIENCY DETAIL DATA SHEET</u> 721-312 DORMITORY AIRMAN PERMANENT PARTY				
<u>SCOPE OF THIS REQUEST: 384 RM</u>				
<u>REQUIREMENTS COMPUTATIONS</u>	<u>Requirements/Assets</u>	<u>Scope (RM)</u>		
<u>MISSION:</u> A fighter wing with F-16 aircraft.	a. Total Requirement	2,546		
	b. Existing Substandard	870		
	c. Existing Adequate	1,826		
	d. Funded, Not in Inv	0		
	e. Adequate Assets (c+d)	0		
	f. Included in Prior Prog	0		
	g. Deficiency (a-e-f)	720		
<p><u>Requirement:</u> By the Integrated Manpower Requirement Document (IMRD), Projected FY15 on-base Unaccompanied Enlisted Personnel Housing Requirement is 2,315. Kunsan AB is authorized 110% of determined requirement based on remote location. Therefore total requirement is 2,315 x 1.1 = 2,546. Existing baseline inventory is 2,696 rooms and projected surplus is 149 rooms. However the existing old and deteriorated substandard dormitories built in 1980's (870 rooms) should be replaced with new dormitories. Therefore 720 PN Dormitories will be constructed by two projects to replace the existing substandard dormitories for E5-E6.</p>				
<u>Cat-Code</u> <u>Nomenclature/Fac No.</u>	<u>Scope (SM/RM)</u>	<u>Cond/Type Yr/Code/Const</u>	<u>Remarks</u>	
b. <u>Existing Substandard: 870 RM</u>				
721-312	Dorm Am PP/PCS-Std/609	3,226 /100	84/3/CMU	Demolish, in way of constr of CY21 Dining Hall project.
721-312	Dorm Am PP/PCS-Std/1401	4,680 /128	86/2/CMU*	Demolish, after comple of this project, MLWR103166.
721-312	Dorm Am PP/PCS-Std/1406	4,680 /128	86/2/CMU*	Demolish, after comple of future project, MLWR113167.
721-312	Dorm Am PP/PCS-Std/1407	4,680 /128	86/2/CMU*	Demolish, after comple of this project, MLWR103166.
721-312	Dorm Am PP/PCS-Std/1408	4,680 /128	86/2/CMU*	Demolish, after comple of future project, MLWR113167.
721-312	Dorm Am PP/PCS-Std/1418	6,173 /162	91/2/CMU*	Demolish, after comple of future project, MLWR113167.
721-312	Dorm Am PP/PCS-Std/1431	3,730 / 96	87/2/CMU**	Retain for TSP after comple of future project, MLWR113167.
Total Substandard:		31,849 /870		

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4. PROJECT TITLE COLLECTIVE PROTECTION SYSTEM DORMITORY		5. PROJECT NUMBER F12R202 (MLWR103166)		
<u>DETAILED COST BREAKDOWN</u>				
<u>ITEM</u>	<u>UM</u>	<u>Q'TY</u>	<u>UNIT COST</u>	<u>COST (\$000)</u>
PRIMARY FACILITY				119,022
Dormitory (384 PN)	SM	16,512	6,417	(105,958)
Enhanced Antiterrorism Force Protec5tion	LS			(10,084)
Enhanced Sustainability Measures	LS			(2,672)
Cybersecurity of Facility-Related Control Sys	LS			(308)
SUPPORTING FACILITIES				6,578
Exterior Electric Work	LM	130	2,146	(279)
Water System	LM	200	260	(172)
Fire Water System	LM	120	1,258	(151)
Sewer System	LM	140	343	(48)
Storm Drainage	LM	150	640	(96)
Gas Distribution	LM	100	480	(48)
Paving, Sidewalks, Curbs and Gutters	SM	230	617	(142)
Site Preparation/ Improvement	LS			(96)
Back-Up Generator, 1000KVA	EA	1	1,778,000	(1,778)
Communication Support	LS			(1,232)
Demolition	SM	9,462	268	(2,536)
SUBTOTAL				125,600
CONTINGENCY (5%)				<u>6,200</u>
TOTAL CONTRACT COST				131,880
SUPERVISION, INSPECTION & OVERHEAD (6.0%)				<u>7,913</u>
TOTAL REQUEST				139,793
TOTAL REQUEST (ROUNDED)				140,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				1,970
Communications Equipment				(102)
Dormitory Furnishings				(1,868)

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<p style="text-align: center;">LOCATION MAP Not to Scale</p>		

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FACILITY SITE PLAN

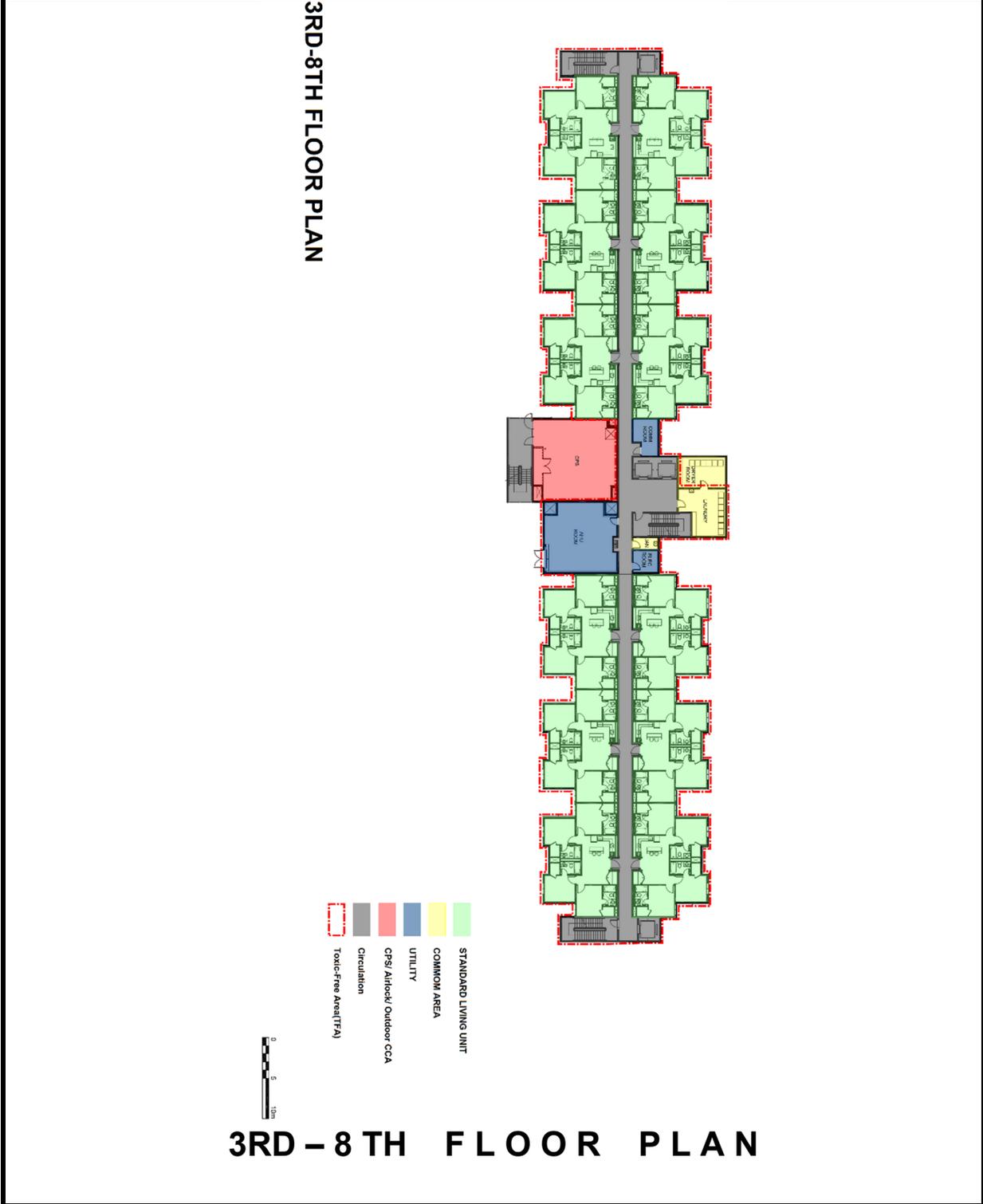
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4. PROJECT TITLE COLLECTIVE PROTECTION SYSTEM DORMITORY		5. PROJECT NUMBER F12R202 (MLWR103166)



1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA		
4. PROJECT TITLE COLLECTIVE PROTECTION SYSTEM DORMITORY		5. PROJECT NUMBER F12R202 (MLWR103166)



1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE FEBRUARY 2024
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4-AIRMEN UNIT PLAN



4 AIRMEN HOUSING MODULE

1. COMPONENT AIR FORCE		REPUBLIC OF KOREA FUNDED CONSTRUCTION(ROKFC)			2. DATE FEBRUARY 2024			
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA				4. PROJECT TITLE: COMBAT SMALL ARMS RANGE				
5. PROGRAM ELEMENT N/A		6. CATEGORY CODE 179-475	7. PROJECT NUMBER F25R600 (MLWR253209)		8. PROJECT COST (\$000) 31,000			
9. COST ESTIMATES								
ITEM					U/M	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES								16,259
COMBAT SMALL ARMS RANGE (179-475)					SM	2,491	6,349	(15,815)
CYBERSECURITY OF FACILITY-RELATED CONTROL					LS			(444)
SUPPORTING FACILITIES								11,276
HVAC IN THE SHOOTING RANGE					SM	1,012	1,412	(1,429)
AREA UTILITIES					LS			(748)
PAVEMENTS					LS			(405)
SITE IMPROVEMENT					LS			(5,000)
RETAINING WALL					LM	705	3,837	(2,705)
STORM DRAINAGE					LS			(451)
COMMUNICATION SUPPORT					LS			(345)
DEMOLITION					SM	533	650	(193)
ESTIMATED CONTRACT COST								27,535
CONTINGENCY (5%)								1,377
SUBTOTAL								28,912
SUPERVISION, INSPECTION AND OVERHEAD (6.0%)								1,735
TOTAL REQUEST								30,647
TOTAL REQUEST (ROUNDED)								31,000
EQUIPMENT FROM OTHER APPROPRIATIONS								(150)
10. DESCRIPTION OF PROPOSED CONSTRUCTION:								
<p>Utilize host-nation funding to construct a fully contained 14-lane, standard based configured and sized, indoor small arms range complex providing combat arms capabilities utilizing economical design and construction methods to enhance the installation's mission. Construction will include concrete foundation, floor, side walls and standing-seam metal roofs including automatic adjustable target-retrieving system, steel deflector plates, bullet trap, overhead baffles, range backstop and a ventilation system for dust and solids control. It also includes all utilities enhancements and upgrades, improved pavements, storm water drainage enhancements, new utility roads, re-surfacing existing parking/ access and adding new parking/access, site improvements, site reconstruction to include significant cut and fill enhancements with concrete retaining walls, communication infrastructure and all necessary supporting work for a complete and usable facility. This project will also provide range operations, storage, classrooms, tactical skills training, and latrine services to include hot and tempered water. Combat arms training and target "zero" capabilities will have ability to operate concurrently while Sustaining & Strengthening Alliance & Teamwork. The project will demolish building B3500 (400 Square Meter), 3502 (100 Square Meter) and 3506 (33 Square Meter), total 533 Square Meter. The facility should be compatible with applicable Department of Defense, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. The facility will be designed as permanent construction in accordance with the DOD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements; UFC 4-179-02 Small Arms Ranges; Facilities Criteria 4-179-03F, Air Force Indoor Small Arms Firing Range; UFC 1-200-02, High Performance and Sustainable Building Requirements; NMCPHC-TM 6290.10, Indoor Firing Ranges Industrial Hygiene Technical Guide; Air Force Manual (AFMAN) 48-155, Occupational and Environmental Health Exposure Controls; AFMAN 32-1084, Facility Requirements; and 29 CFR 1910.1025, Lead. This project will comply with Department of Defense antiterrorism/force protection (AT/FP) requirements per Unified Facility Criteria 4-010-01. Air Conditioning shooting area: approximately 300 Tons 100% outside air, 80 degrees, 65% relative humidity. Ensure all outdoor HVAC equipment is housed in a weather protected structure.</p> <p>Air Conditioning: 335 Tons</p>								

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA (PACAF)		
4. PROJECT TITLE: COMBAT SMALL ARMS RANGE		5. PROJECT NUMBER F25R600 (MLWR253209)
<p>11. REQUIREMENT: 14 FP (LANES) ADEQUATE: 0 FP SUBSTANDARD: 7 FP</p> <p>PROJECT: Construct Combat Small Arms Range (Current Mission).</p> <p>REQUIREMENT: The existing open range has exceeded its useful functional life (37 years) and is undersized for current training requirements. Existing facilities do not provide adequate weather protection, shooting lanes, classroom space, administration space, weapons cleaning and maintenance space required for compliance with minimum standards to conduct current operations (including AT/FP, training mission, etc.). In order for the assigned personnel and follow-on forces to meet their readiness responsibility of small arms qualifications, it is critical that a compliant Small Arms Firing Range complex be available to support the assigned warfighter and mission support. A properly sized, configured and fully contained Small Arms Range Complex is required to provide adequate training to military personnel that require certification in the use of small arms up to 7.62mm machine gun (M240). Airmen assigned combat handguns and rifles are required to qualify semi-annually in accordance with Department of Army (DA) Pamphlet 350-38. Specific individuals have weapons and equipment that requires qualification three times a year.</p> <p>CURRENT SITUATION: The existing firing range constructed in 1983 is a 7-lane, partially sheltered range and does not meet current standards and regulations. The range has closed several times due to high lead exposure, requiring range instructors to wear masks on a full-time basis. When closed, the 3,000 military personnel are required to travel to alternate locations for small arms qualifications, doubling the time and expense for students and instructors. The existing range has also been cited multiple times by Bioenvironmental Engineering for high copper exposure, excessive noise levels, and a substandard ventilation system that has contributed to range closures. Therefore the existing old, deteriorated and undersized range should be replaced with a fully contained, properly sized and adequate range to support the Kunsan's flying mission to DETER/DEFEND ability to "Fight Tonight."</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, combat arms training cannot be performed due to a lack of an adequate and standard facility. Use of the existing facility will continue to incur safety and environmental violations to include lead contamination. Training operations will continue to be inefficient and result in numerous interruptions and missed training activities due to environmental and safety concerns. This seriously impacts the required combat training for those personnel that are deployed to overseas locations and are not receiving adequate combat training due to the lack of proper training facilities. There are no other DoD approved firing ranges in close proximity to Kunsan Air Base. The Eighth United States Army (EUSA) range policy is to provide qualification facilities within a two-hour (or less) travel time for the unit. Failure to provide this facility will cause a less than favorable Unit Status Report/Rating jeopardizing the war-fighting and mission readiness of Kunsan Air Base.</p>		

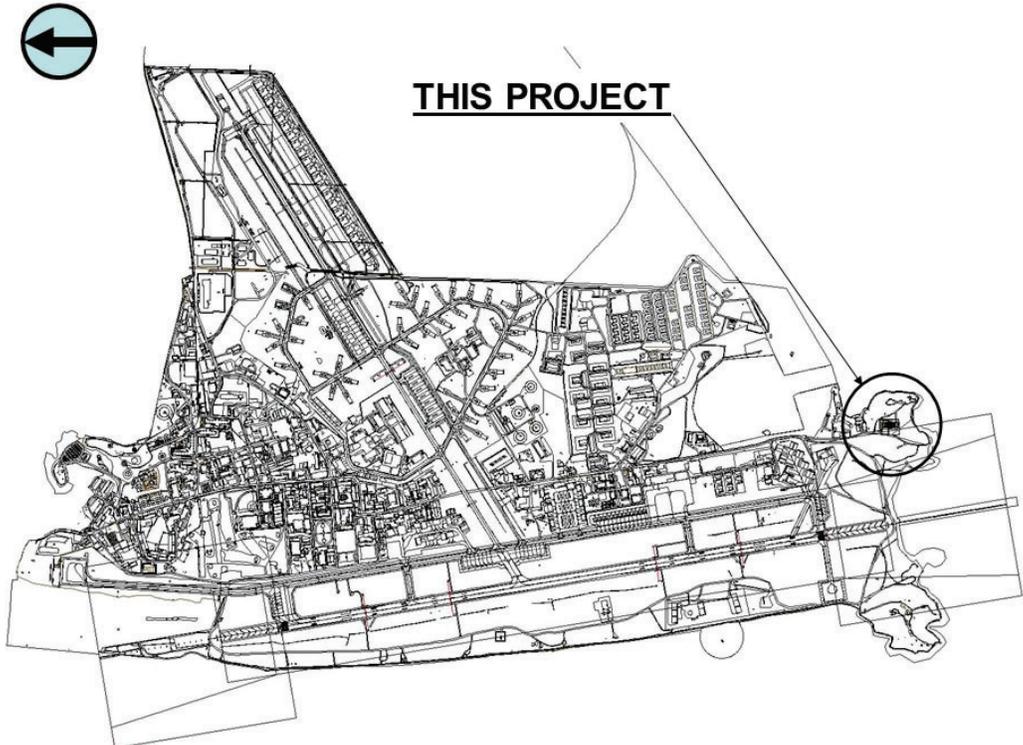
1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE FEBRUARY 2024
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4. PROJECT TITLE: COMBAT SMALL ARMS RANGE		5. PROJECT NUMBER F25R600 (MLWR253209)
<p>ADDITIONAL:</p> <p>A. JOINT USE CERTIFICATE: For United States exclusive-use, the scope of the project is based on Air Force requirements. This facility will be available for use by the other components.</p> <p>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. The possibility of Host Nation funding has been addressed to support this requirement.</p> <p>C. PHYSICAL SECURITY: This project has been coordinated with the installation physical security plan, and all physical security measures are included.</p> <p>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 Unified Facilities Criteria 4-010-01. All facilities will meet current Unified Facilities Criteria 4-010-01 standards for buildings and site. Major Antiterrorism/Force Protection building features will include design for progressive collapse and blast resistant windows and an Emergency Air Distribution Shutoff, ensuring any roof access prevents anyone from entering the building by utilizing locking mechanism, and caged ladders that can be locked to prevent access.</p> <p>E. SUSTAINABLE DESIGN AND DEVELOPMENT (SDD): Sustainable principles shall be integrated into the design, development, and construction of this project. 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 American Society of Heating, Refrigerating and Air-Conditioning Engineers (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 the Federal Energy Management Program.</p> <p>F. Full fire protection is required by regulation and Unified Facilities Criteria 3-600-01 to include a fire alarm/suppression system; mass notification system (MNS) as required by Unified Facilities Criteria 4-010-01; access control systems; and connection to the utility monitoring control system (UMCS). Fire Alarm panels shall include zone module cards that can support 16 zones. These additional zones are required to transmit exact location data to the fire alarm computer located at the fire department emergency communication center through the use of a building transmitter installed meeting the building design.</p> <p>G. This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, and all applicable federal and host nation requirements.</p> <p>H. Comprehensive interior design package for the Architectural & Engineering (AE) firm to complete as required by Unified Facilities Criteria 3-120-10.</p> <p>I. No portion of this facility is intended for Republic of Korea personnel exclusive or primary use.</p> <p>J. The supporting facilities costs exceed 25% of the primary facilities costs due to high site improvement cost located on the rocky area that requires grading with rock excavation and removal as well as storm drainage and concrete retaining wall.</p>		

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3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA (PACAF)		
4. PROJECT TITLE: COMBAT SMALL ARMS RANGE		5. PROJECT NUMBER F25R600 (MLWR253209)
<p>K. Flood Plain Statement: This project does not fall within or partly within the 100-year flood plain.</p> <p>L. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>M. Small Arms Range: 2,491SM (26,813 SF). Demolition: 533SM (5,730SF) – Bldg 3500, 3502 and 3506.</p>		

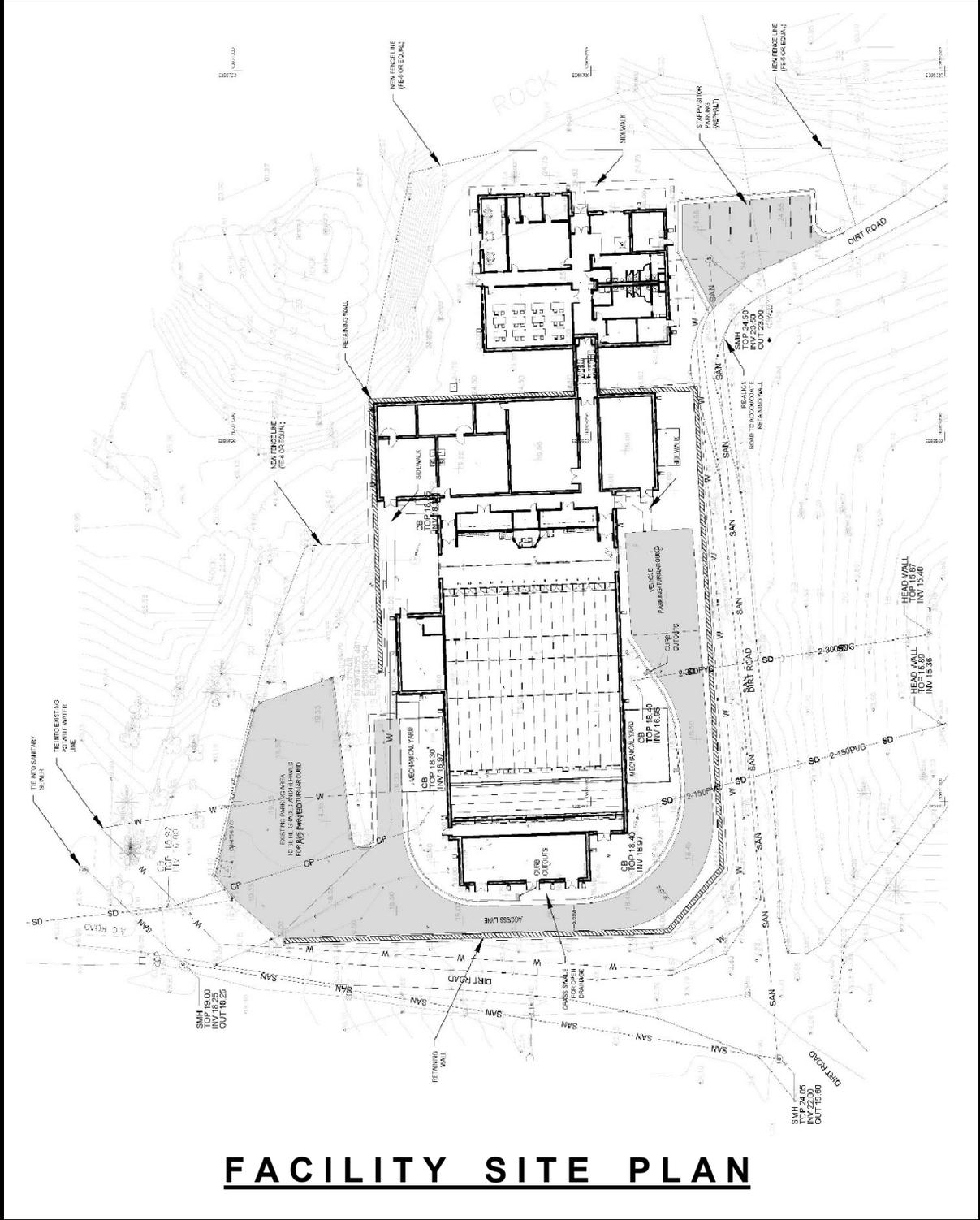
1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA			
4. PROJECT TITLE COMBAT SMALL ARMS RANGE		5. PROJECT NUMBER F25R600 (MLWR253209)	
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	18 Nov 2021		
(c) Parametric Cost Estimates used to develop costs	Yes		
*(d) Percent Complete	N/A		
*(e) Date 35% Designed	21 Dec 2022		
(f) Date Design Complete	1 Sep 2024		
(g) Energy Study/Life-Cycle analysis was/will be performed	Yes		
(2) Basis:			
(a) Standard or Definitive Design -	NO		
(b) Where Design Was Most Recently Used -	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e) : (\$000)			
(a) Production of Plans and Specifications	0		
(b) All other Design Costs	0		
(c) Total	0		
(d) Contract	0		
(e) In-house	0		
(4) Construction Contract Award	Feb 2025		
(5) Construction Start	Apr 2025		
(6) Construction Completion	Mar 2027		
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost, and executability.			
b. Equipment associated with this project provided from other appropriations:			
<u>Equipment Nomenclature</u>	<u>Procuring Appropriation</u>	<u>Fiscal Year Appropriated or Requested</u>	<u>Cost (\$000)</u>
Furniture, Furnishings & Equipment	3080	2026	100
Communications Equipment	3080	2026	50
c. Explosive Safety Quantity-Distance (Q-D) Siting: No Department of Defense Explosive Safety Board (DDESB): N/A			
d. Facilities and Areas Sub-Committee (FASC) Task: N/A			

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE FEBRUARY 2024																																																																																																					
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<p><u>DETAILED COST BREAKDOWN</u></p> <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>ITEM</u></th> <th style="text-align: left;"><u>UM</u></th> <th style="text-align: left;"><u>Q'TY</u></th> <th style="text-align: left;"><u>UNIT COST</u></th> <th style="text-align: right;"><u>COST (\$000)</u></th> </tr> </thead> <tbody> <tr> <td colspan="5">PRIMARY FACILITY</td> </tr> <tr> <td>Combat Small Arms Range</td> <td>SM</td> <td>2,491</td> <td>6,349</td> <td style="text-align: right;">16,259 (15,815)</td> </tr> <tr> <td>Cybersecurity of Facility-Related Control</td> <td>LS</td> <td>1</td> <td></td> <td style="text-align: right;">(444)</td> </tr> <tr> <td colspan="5">SUPPORTING FACILITIES</td> </tr> <tr> <td>HVAC in the Shooting Range Area</td> <td>SM</td> <td>1,012</td> <td>1,412</td> <td style="text-align: right;">11,276 (1,429)</td> </tr> <tr> <td>Electric Service</td> <td>LS</td> <td>1</td> <td></td> <td style="text-align: right;">(473)</td> </tr> <tr> <td>Water & Sewer</td> <td>LS</td> <td>1</td> <td></td> <td style="text-align: right;">(275)</td> </tr> <tr> <td>Pavement, Walks, Curbs and Gutters</td> <td>LS</td> <td>1</td> <td></td> <td style="text-align: right;">(405)</td> </tr> <tr> <td>Site Improvement</td> <td>LS</td> <td>1</td> <td></td> <td style="text-align: right;">(5,000)</td> </tr> <tr> <td>Retaining Wall</td> <td>LM</td> <td>705</td> <td>3,837</td> <td style="text-align: right;">(2,705)</td> </tr> <tr> <td>Storm Drainage</td> <td>LS</td> <td>1</td> <td></td> <td style="text-align: right;">(451)</td> </tr> <tr> <td>Communications Support</td> <td>LS</td> <td>1</td> <td></td> <td style="text-align: right;">(345)</td> </tr> <tr> <td>Demolition</td> <td>SM</td> <td>533</td> <td>362</td> <td style="text-align: right;">(193)</td> </tr> <tr> <td colspan="4">ESTIMATED CONTRACT COST</td> <td style="text-align: right;">27,535</td> </tr> <tr> <td colspan="4">CONTINGENCY (5%)</td> <td style="text-align: right;"><u>1,377</u></td> </tr> <tr> <td colspan="4">SUBTOTAL</td> <td style="text-align: right;">28,912</td> </tr> <tr> <td colspan="4">SUPERVISION, INSPECTION & OVERHEAD (6.0%)</td> <td style="text-align: right;"><u>1,735</u></td> </tr> <tr> <td colspan="4">TOTAL REQUEST</td> <td style="text-align: right;">30,647</td> </tr> <tr> <td colspan="4">TOTAL REQUEST (ROUNDED)</td> <td style="text-align: right;">31,000</td> </tr> </tbody> </table>					<u>ITEM</u>	<u>UM</u>	<u>Q'TY</u>	<u>UNIT COST</u>	<u>COST (\$000)</u>	PRIMARY FACILITY					Combat Small Arms Range	SM	2,491	6,349	16,259 (15,815)	Cybersecurity of Facility-Related Control	LS	1		(444)	SUPPORTING FACILITIES					HVAC in the Shooting Range Area	SM	1,012	1,412	11,276 (1,429)	Electric Service	LS	1		(473)	Water & Sewer	LS	1		(275)	Pavement, Walks, Curbs and Gutters	LS	1		(405)	Site Improvement	LS	1		(5,000)	Retaining Wall	LM	705	3,837	(2,705)	Storm Drainage	LS	1		(451)	Communications Support	LS	1		(345)	Demolition	SM	533	362	(193)	ESTIMATED CONTRACT COST				27,535	CONTINGENCY (5%)				<u>1,377</u>	SUBTOTAL				28,912	SUPERVISION, INSPECTION & OVERHEAD (6.0%)				<u>1,735</u>	TOTAL REQUEST				30,647	TOTAL REQUEST (ROUNDED)				31,000
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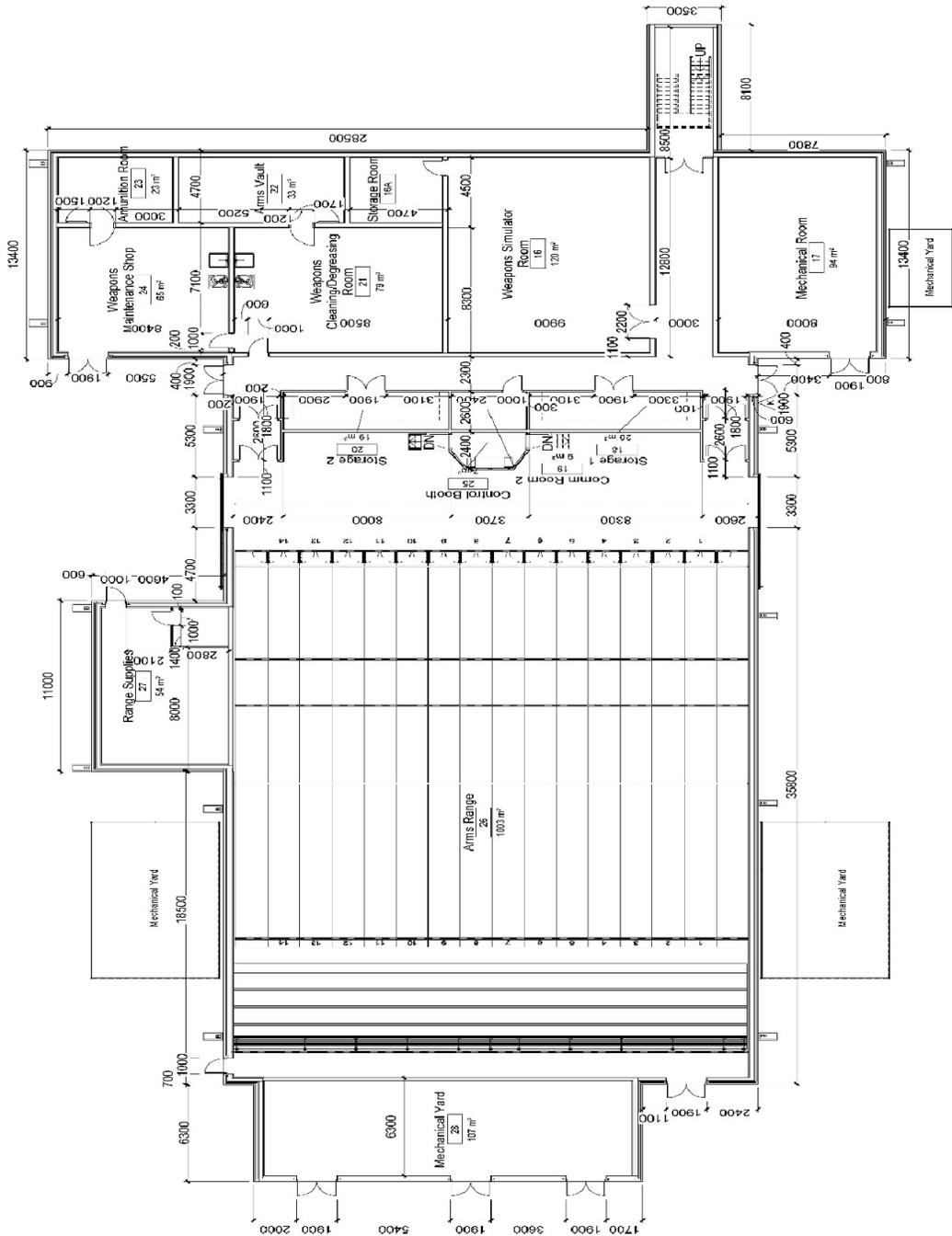
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3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA		
4. PROJECT TITLE: COMBAT SMALL ARMS RANGE		5. PROJECT NUMBER F25R600 (MLWR253209)
		
LOCATION MAP		Not to Scale

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA		
4. PROJECT TITLE: COMBAT SMALL ARMS RANGE		5. PROJECT NUMBER F25R600 (MLWR253209)



FACILITY SITE PLAN

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA		
4. PROJECT TITLE: COMBAT SMALL ARMS RANGE		5. PROJECT NUMBER F25R600 (MLWR253209)



1ST FLOOR PLAN

1. COMPONENT AIR FORCE		REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA			4. PROJECT TITLE: FIGHTER SQUADRON & FIGHTER GENERATION SQUADRON OPERATIONS FACILITY		
5. PROGRAM ELEMENT N/A	6. CATEGORY CODE 141-753	7. PROJECT NUMBER F23R620 (MLWR243206)	8. PROJECT COST (\$000) \$46,000		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITIES					37,033
FS & FGS OPERATIONS FACILITY (141-753)		SM	6,373	5,565	(35,466)
ANTITERRORISM FORCE PROTECTION		LS			(717)
CYBERSECURITY OF FACILITY-RELATED CONTROL		LS			(850)
SUPPORTING FACILITIES					3,967
UTILITIES		LS			(1,562)
PAVEMENTS		LS			(271)
SITE IMPROVEMENTS		LS			(218)
STORM DRAINAGE		LS			(1,164)
BACKUP GENERATOR		EA	1		(248)
COMMUNICATIONS SUPPORT		LS			(491)
DEMOLITION		SM	34	382	(13)
SUBTOTAL					41,000
CONTINGENCY (5%)					2,050
TOTAL CONTRACT COST					43,050
SUPERVISION, INSPECTION AND OVERHEAD (6.0%)					2,583
TOTAL REQUEST					45,633
TOTAL REQUEST (ROUNDED)					46,000
EQUIPMENT FROM OTHER APPROPRIATIONS					3,700
10. DESCRIPTION OF PROPOSED CONSTRUCTION:					
<p>Utilize host-nation funding to construct a consolidated Fighter Squadron (FS) and Fighter Generation Squadron (FGS) Operations facility. The FS and FGS facility will consist of an aircrew flight equipment area, administration spaces, crew quarters, health and wellness area, and tool/equipment storage. It will be constructed as a semi-hardened building with a collective protection system. The facility will include reinforced concrete foundation and floor slab, concrete walls, and a standing seam metal roof over reinforced concrete roof deck. Heating, ventilation, and air conditioning (HVAC) system, fire protection system, lightning protection, utilities, pavements, site improvements, pile foundation, communications infrastructure and all necessary supporting work for a complete and usable facility will be included in the construction. The Aircraft Parts Storage Facility will reuse existing two hardened aircraft shelters, incurring any costs associated with making the structure usable for the intended purpose. This project will demolish building 3553 (34 Square Meter). The facility should be compatible with applicable Department of Defense, Air Force, and base design standards. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01. Air conditioning: 200 Tons</p>					
11. REQUIREMENT: 12,746 SM ADEQUATE: 0 SM SUBSTANDARD: 6,091 SM					
PROJECT: Construct Fighter Squadron and Fighter Generation Squadron Operations facility (Current Mission).					

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA		
4. PROJECT TITLE FIGHTER SQUADRON & FIGHTER GENERATION SQUADRON OPERATIONS FACILITY		5. PROJECT NUMBER F23R620 (MLWR243206)
<p>REQUIREMENT: This project is required to provide an adequately sized, configured, secured, semi-hardened, and survivable fighter squadron and fighter generation squadron operations facility. Each Fighter Squadron needs an operational building for administration, scheduling, training, briefing, personal equipment maintenance, and storage for aircrews. High-threat areas such as Kunsan Air Base require additional design considerations to ensure facility and personnel have survivability during hostile events. The Fighter Generation Squadron will be a main control point for aircraft maintenance activities, administration, task training, equipment and tool storage, and is responsible for servicing, inspecting, maintaining, and launching/recovering assigned aircraft; maintaining/storing required aircraft maintenance equipment/tools; and ensuring all mobility requirements are met. A properly sized and configured, protected Aircrafts Parts Storage is necessary to support the aircrafts assigned to Kunsan Air Base, as well as follow-on forces during armistice and contingency operations. It is also required to place the aircraft readiness spares, such as Primary Operating Stocks, Mobility Readiness Spares, In-place Readiness Spares, and Consumable Readiness Spares Packages.</p> <p>CURRENT SITUATION: The existing Fighter Squadron and Fighter Generation Squadron Operations facility is 54% undersized per Air Force Manual (AFMAN) 32-1084. Specifically, the Aircrew Flight Equipment is extremely undersized which causes much of the equipment to be stored at a borrowed facility. Moreover, the new generation Hardened Aircraft Shelters (HAS) were built 1.2 miles away from the current Operations and Aircraft Maintenance facility, creating a significant delay in aircraft maintainers' response time and subsequently a significant delay for pilots as well. The facility is also heavily dilapidated, with a Building Condition Index of 64, and the Heating, Ventilation, and Air Conditioning system being 52. It requires rigorous repair and maintenance to remain barely operational. As for the Aircraft Parts Storage, currently the aircraft parts are stored in a HAS that was temporarily converted to meet this objective in 1989. Not only the facility's size is inadequate, it is also antiquated as there has been no major maintenance or repair work to date.</p> <p>IMPACT IF NOT PROVIDED: Without this project, 8th Fighter Wing, 80th Fighter Squadron and Fighter Generation Squadron will continue to operate handicapped due to the severely undersized and dilapidated facility. The sheer distance between the existing FS & FGS facility and new HASs will cause significant mission delay due to increased travel time between facility and jets. Additionally, during contingency Chemical, Biological, Radiological and Nuclear (CBRN) environment, crews will not be able to rest properly because there are no crew quarters within the current facility. Furthermore, insufficient storage area, facility deterioration, and inadequate protection and ventilation pose a significant risk to the existing Aircraft Parts Storage facility, and therefore the installation's ability to store and place high value aircraft readiness spares as close to the flight line as possible to meet wartime tasking. Ultimately, above factors will impact Kunsan Air Base's ability to accept follow-on forces, and to take the fight north.</p>		

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE FEBRUARY 2024
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4. PROJECT TITLE FIGHTER SQUADRON & FIGHTER GENERATION SQUADRON OPERATIONS FACILITY		5. PROJECT NUMBER F23R620 (MLWR243206)
<p>ADDITIONAL:</p> <p>A. JOINT USE CERTIFICATE: For United States exclusive-use, the scope of the project is based on Air Force requirements. This facility will be available for use by the other components.</p> <p>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. The possibility of Host Nation funding has been addressed to support this requirement.</p> <p>C. PHYSICAL SECURITY: This project has been coordinated with the installation physical security plan, and all physical security measures are included.</p> <p>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 Unified Facilities Criteria 4-010-01. All facilities will meet current Unified Facilities Criteria 4-010-01 standards for buildings and site. Major Antiterrorism/Force Protection building features will include design for progressive collapse and blast resistant windows and an Emergency Air Distribution Shutoff, ensuring any roof access prevents anyone from entering the building by utilizing locking mechanism, and caged ladders that can be locked to prevent access.</p> <p>E. SUSTAINABLE DESIGN AND DEVELOPMENT (SDD): Sustainable principles shall be integrated into the design, development, and construction of this project. 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 American Society of Heating, Refrigerating and Air-Conditioning Engineers (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 the Federal Energy Management Program.</p> <p>F. Full fire protection is required by regulation and Unified Facilities Criteria 3-600-01 to include a fire alarm/suppression system; mass notification system (MNS) as required by Unified Facilities Criteria 4-010-01; access control systems; and connection to the utility monitoring control system (UMCS). Fire Alarm panels shall include zone module cards that can support 16 zones. These additional zones are required to transmit exact location data to the fire alarm computer located at the fire department emergency communication center through the use of a building transmitter installed meeting the building design.</p> <p>G. This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, and all applicable federal and host nation requirements.</p> <p>H. Comprehensive interior design package for the Architectural & Engineering (AE) firm to complete as required by Unified Facilities Criteria 3-120-10.</p> <p>I. No portion of this facility is intended for Republic of Korea personnel exclusive or primary use.</p> <p>J. The supporting facilities costs does not exceed 25% of the primary facilities costs.</p>		

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE FEBRUARY 2024
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4. PROJECT TITLE FIGHTER SQUADRON & FIGHTER GENERATION SQUADRON OPERATIONS FACILITY		5. PROJECT NUMBER F23R620 (MLWR243206)
<p>K. Flood Plain Statement: This project falls within the 100-year flood plain. The risk will be mitigated by constructing the facility and any flood-susceptible utilities above the 100-year flood level. This is a mission-critical facility. The facility and any flood-susceptible utilities will be constructed a minimum of three feet above the 100-year flood elevation.</p> <p>L. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>M. FS & FGS Operations Facility: 6,373SM (68,596 SF). Demolition: 34 SM (260 SF)</p>		

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA			
4. PROJECT TITLE FIGHTER SQUADRON & FIGHTER GENERATION SQUADRON OPERATIONS FACILITY		5. PROJECT NUMBER F23R620 (MLWR243206)	
12. SUPPLEMENTAL DATA:			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design	Design-Bid-Build		
(b) Date Design Started	Sep 2022		
(c) Parametric Cost Estimates used to develop costs	Yes		
*(d) Percent Complete	N/A		
*(e) Date 35% Designed	Jan 2024		
(f) Date Design Complete	Sep 2024		
(g) Energy Study/Life-Cycle analysis was/will be performed	Yes		
(2) Basis:			
(a) Standard or Definitive Design	NO		
(b) Where Design Was Most Recently Used	N/A		
(3) Total Cost (c) = (a) + (b) or (d) + (e) : (\$000)			
(a) Production of Plans and Specifications	0		
(b) All other Design Costs	0		
(c) Total	0		
(d) Contract	0		
(e) In-house	0		
(4) Construction Contract Award	Feb 2025		
(5) Construction Start	Apr 2025		
(6) Construction Completion	Mar 2027		
* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost, and executability.			
b. Equipment associated with this project provided from other appropriations:			
<u>Equipment Nomenclature</u>	<u>Procuring Appropriation</u>	<u>Fiscal Year Appropriated or Requested</u>	<u>Cost (\$000)</u>
Furniture, Furnishings & Equipment	3080	2027	3,600
Communications Equipment	3080	2027	100
c. Explosive Safety Quantity-Distance (Q-D) Siting: Yes			
Department of Defense Explosive Safety Board (DDESB): Yes			
d. Facilities and Areas Sub-Committee (FASC) Task: N/A			

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA		
4. PROJECT TITLE FIGHTER SQUADRON & FIGHTER GENERATION SQUADRON OPERATIONS FACILITY		5. PROJECT NUMBER F23R620 (MLWR243206)
<u>EXISTING FACILITIES/DEFICIENCY DETAIL DATA SHEET</u>		
141-753 FIGHTER SQUADRON OPERATIONS & 211-154 FIGHTER GENERATION SQUADRON OPERATION		
<u>SCOPE OF THIS REQUEST: 6,373 SM</u>		<u>REQUIREMENTS/ASSETS</u>
<u>REQUIREMENTS COMPUTATIONS</u>	Scope	No. of
	(SM)	Bldgs
<u>MISSION:</u> A co-located operating air base with 4 flying units with 62 aircraft: USAF 35th Fighter Squadron (F-16), USAF 80th (F-16), US Army Gray Eagle (UAS), & 38th Fighter Group, Republic of Korea Air Force (KF-16)	a. Total Requirement	12,746 2
	b. Existing Substandard	6,091 3
	c. Existing Adequate	0 0
	d. Funded, Not in Inv	0 0
	e. Adequate Assets (c+d)	0 0
	f. Prior Program	0 0
	g. Deficiency (a-e-f)	12,746 2
<u>Requirement:</u> Per AFMAN 32-1084, Table 1.1 authorizes 1,300 SM (14,000 SF) for Tactical Fighter Squadron Operations and 885 SM (9,520 SF) for Fighter Generation Squadron. It also provides 20% gross floor credit for facility semi-hardening. Kunsan AB needs two FS & FGS Ops facility. Based on the recent HDR Engineering Inc. Planning Charrette Report dated Mar 2023, this project will provide a 6,373SM (68,596 SF) of 80 th FS & FGS Ops Facility. Below are the breakdown for each functional area.		
Cat-Code 141-753 FIGHTER SQUADRON OPERATIONS		
Type of Space	Net SF	Gross SF
Squadron Commander Suite	1,203	
Step Desk & Sq Aviation RM	994	
Aircrew Flight Equipment	3,338	
Flight Operations	766	
Sq Ops Admin	7,253	
Sq Ops SAP Areas	5,293	
Living Area	3,208	
Collective Protection System	986	
Health & Wellness	1,201	
Sub-Total	24,242	*30,303
Total FS Ops Authorized SF		**36,364
<p>Note: * - Applied Net to Gross Factor ** - Add 20% for semi-hardening</p>		

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE FEBRUARY 2024
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EXISTING FACILITIES/DEFICIENCY DETAIL DATA SHEET (Continued)

Cat-Code 211-154 FIGHTER GENERATION SQUADRON OPERATIONS

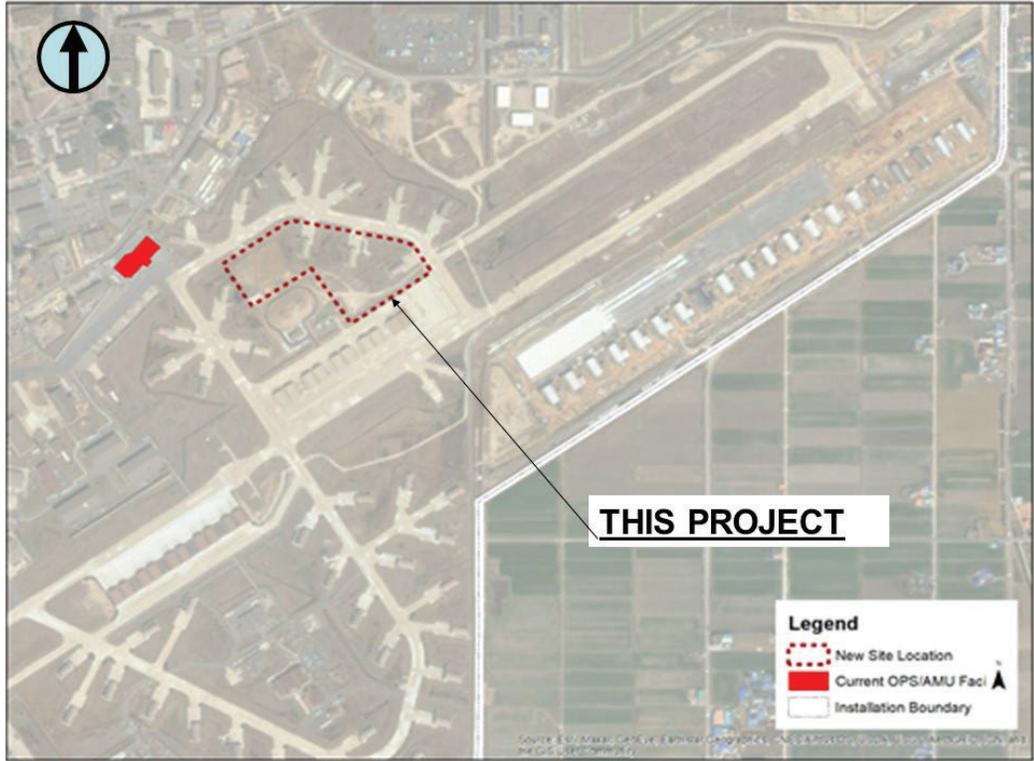
Type of Space	Net SF	Gross SF	Authorized SF
FFGS Command	1,543	9,520	**11,424
FGS Flight Chiefs & Admin	11,831		
CTK/COSO/Mobility	6,248		
FGS SAP Area	220		
Collective Protection System	986		
Health & Wellness	660		
Sub-Total	21,488	*26860	**32,232
Total FGS Ops Authorized SF			32,232

Note: * - Applied Net to Gross Factor
** - Add 20% for semi-hardening

Therefore, **Total Building Gross Area** is 36,364 + 32,232 = **68,596 SF**

<u>Cat-Code Nomenclature/Fac No.</u>	<u>Scope Used (SM)</u>	<u>Total Bldg (SM)</u>	<u>Cond/Type Yr/Code/Const</u>	<u>Remarks</u>
b. Existing Substandard: 6,091 SM				
141-753 80 th FS & FGS Ops/915	2,938	2,938	1991/2/Conc	Demolish after comple of 35 th FS & FGS Ops project.
141-753 35 th FS Ops/2567	2,036	2,036	2004/2/Conc	Demolish in way of Constr of 35 th FS & FGS Ops proj.
211-154 35 th FGS/2565	<u>1,117</u>	1,117	1990/2/Conc	Demolish in way of Constr of 35 th FS & FGS Ops proj.
Subtotal of Existing Substandard	6,091			
g. Deficiency: 12,746 SM				
141-753 80 th Sq Ops/AMU	6,373	6,373		This Request.
141-753 35 th Sq Ops/AMU	<u>6,373</u>	6,373		CY27 ROKFC Project.
Subtotal of Deficiency	12,746			
<u>Other related Action</u>				
723-392 Latrine Fac/3553	34	34	2011/1/Conc	Demolish by this project.

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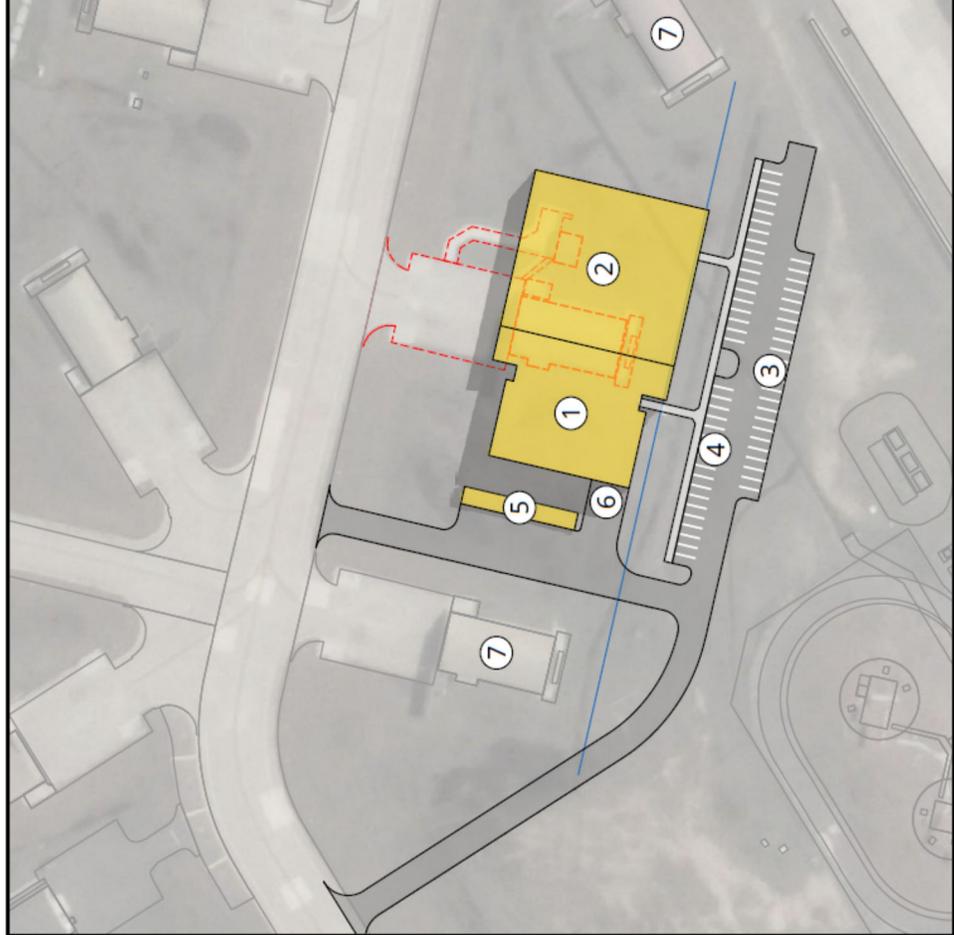
1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA		
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LEGEND

APPROXIMATE LOCATION OF WATER	80 FS/FGS 2-STORY FACILITY
MAIN	ADDITIONAL REQUIRED FACILITY SPACE (2-STORY)
DEMOLITION	GOV PARKING (25 SPACES)
NEW STRUCTURE	POV PARKING (38 SPACES)
NEW PAVEMENT/PARKING	OVERHEAD PROTECTION
	LOADING APRON
	OUTDOOR STORAGE

① 80 FS/FGS 2-STORY FACILITY
 ② ADDITIONAL REQUIRED FACILITY SPACE (2-STORY)
 ③ GOV PARKING (25 SPACES)
 ④ POV PARKING (38 SPACES)
 ⑤ OVERHEAD PROTECTION
 ⑥ LOADING APRON
 ⑦ OUTDOOR STORAGE

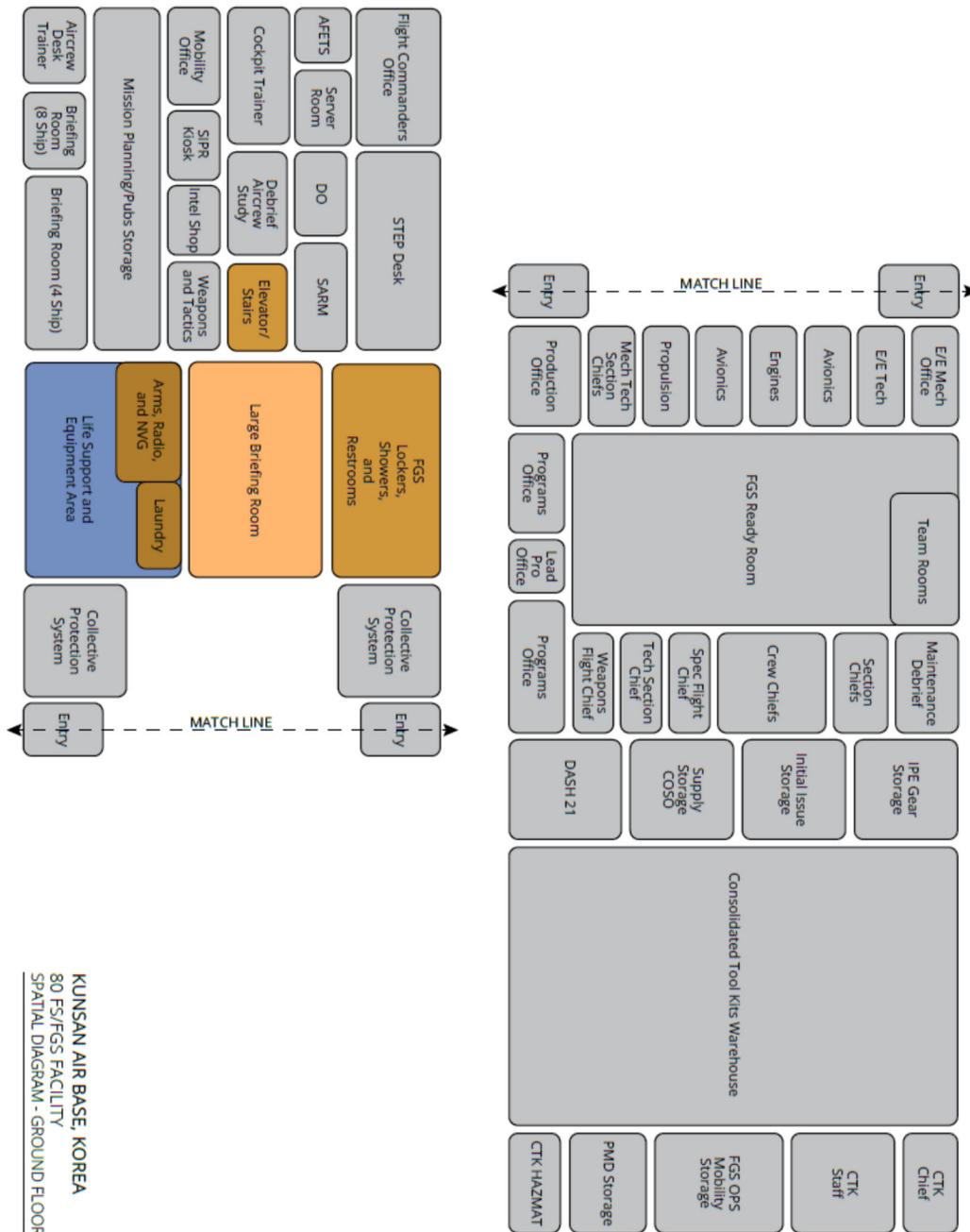

 KUNSAN AIR BASE, KOREA
 80 FS/FGS COMBINED FACILITY
 1:1,440 SCALE



FACILITY SITE PLAN

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE FEBRUARY 2024
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4. PROJECT TITLE FIGHTER SQUADRON & FIGHTER GENERATION SQUADRON OPERATIONS FACILITY		5. PROJECT NUMBER F23R620 (MLWR243206)

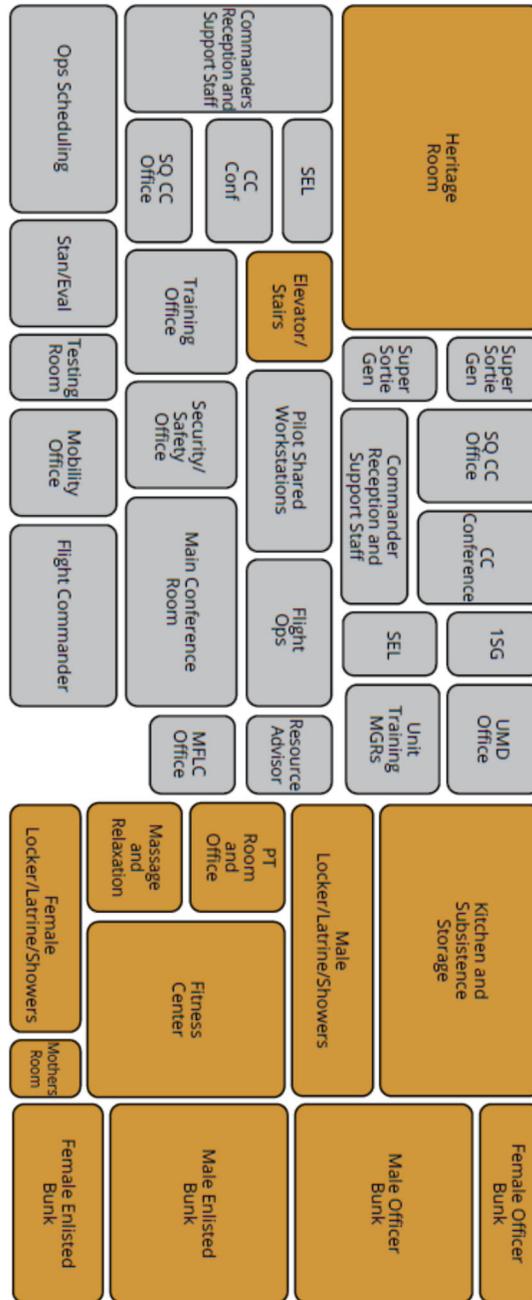
GROUND FLOOR SPATIAL DIAGRAM - CONCEPT



KUNSAN AIR BASE, KOREA
80 FS/FGS FACILITY
SPATIAL DIAGRAM - GROUND FLOOR

1. COMPONENT AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)	2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA		
4. PROJECT TITLE FIGHTER SQUADRON & FIGHTER GENERATION SQUADRON OPERATIONS FACILITY		5. PROJECT NUMBER F23R620 (MLWR243206)

FIRST FLOOR SPATIAL DIAGRAM - CONCEPT



1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)			2. DATE: FEBRUARY 2024	
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA			4. PROJECT TITLE: DISTRIBUTED MISSION OPERATIONS FLIGHT SIMULATOR (ROKFC IN-KIND)		
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 171212		7. PROJECT NUMBER: F14R501A		8. PROJECT COST (\$000) 15,000
9. COST ESTIMATES:					
ITEM	U/M	QTY	UNIT COST	COST (\$000)	
PRIMARY FACILITY				10,468	
FLIGHT SIMULATOR FACILITY (171-212)	SM	1,225	8,341	10,218	
CYBERSECURITY	LS			250	
SUPPORTING FACILITY				3,211	
UTILITIES	LS			867	
PAVEMENTS	LS			517	
SITE IMPROVEMENTS	LS			899	
COMMUNICATIONS	LS			278	
SPECIAL FOUNDATIONS	LS			328	
TEMPORARY STORAGE FACILITY	SM	150	2,144	322	
ESTIMATED CONTRACT COST				13,679	
CONTINGENCY (5%)				684	
SUBTOTAL				14,363	
SUPERVISION, INSPECTION & OVERHEAD - 6.0%				862	
TOTAL REQUEST				15,225	
TOTAL REQUEST (ROUNDED)				15,000	
EQUIPMENT FROM OTHER APPROPRIATIONS				TBD	
10. DESCRIPTION OF PROPOSED CONSTRUCTION:					
<p>Utilize host-nation funding to construct a four-ship F-16 Distributed Mission Operations (DMO) flight simulator facility utilizing conventional design and construction methods to accommodate the mission of the facility. The new facility will offer: flight simulator bays, briefing, debriefing, and mission observation rooms, Modular Control Equipment, threat stations, administration and records, classrooms, office space for contractor and military personnel, restrooms, trainer maintenance, storage, and other indirect supporting spaces. Construction will include reinforced concrete foundation, structural steel frame, roll-up doors and crane for each bay, split-face concrete masonry unit veneer and a standing seam metal roof. The project will include all necessary utilities, site improvements, pavements, communications support infrastructure, and all necessary supporting work for a complete and usable flight simulator facility. The Sensitive Compartmented Information (SCI) requirements within the facility will be accomplished by a separate funding program companion project, Distributed Mission Operations (DMO) Flight Simulator Facility (Secure Working Area Only) SMYU063024. Facilities will be designed as permanent construction in accordance with the Department of Defense (DoD) Unified Facilities Criteria (UFC) 1-200-01. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This</p>					

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3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: DISTRIBUTED MISSION OPERATIONS FLIGHT SIMULATOR (ROKFC IN-KIND)	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 171212	7. PROJECT NUMBER: F14R501A	8. PROJECT COST (\$000) 15,000
<p>includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, and whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project will comply with Department of Defense antiterrorism/force protection (AT/FP) requirements per Unified Facility Criteria 4-010-01.</p> <p>Air Conditioning: 210 Tons</p> <p>11. REQ: 2,050M2 ADQT: 825M2 SUBSTD: 0M2</p> <p>PROJECT: Construct a Distributed Mission Operations Flight Simulator Facility. (Current Mission)</p> <p>REQUIREMENT:</p> <p>This project is required to achieve the objectives of the United States Forces Korea (USFK) Command and Air Component Command requirements of "fight tonight" readiness required to "start the fight". This project is required to provide an adequately sized, configured, and secured facility to house F-16 simulator training equipment necessary to support aircrew training and proficiency activities critical for base flying operations at the classified level to "fight tonight". This facility will permit training of pilots in all phases of flight. Use of a flight simulator provides required aircrew proficiency at a reduced cost and less risk over actual flight time.</p> <p>CURRENT SITUATION:</p> <p>The existing facility, building 1380, built in 1991, is inadequately sized and not configured to accommodate the new Distributed Mission Operations simulators. It was originally configured and sized to perform A-10 Full Mission Trainer and F-16 Unit Training Device simulator (UTDS) operations. The simulators in building 1380 operate on outdated software that does not match what pilots see in the F-16 cockpit. New F-16 flight simulators are ready to be installed at Osan Air Base. The Distributed Mission Operations simulators provide a 360-degree field of view simulation to enable F-16 pilots from Osan to practice all aspects of flying missions as a four-ship in order to support the Combined Forces Air Component, Numbered Air Forces, the Fighter Wing and defend 51 million Republic of Korea citizens. The Distributed Mission Operations capability enables Osan Air Base to train with other units already equipped with this capability around the world. Ground control intercept controllers from Osan Air Base's air control squadron will be able to train and refine their controlling capabilities when the base receives the Distributed Mission Operations simulators. The Distributed Mission Operations simulators require a higher security level than the current Unit Training Device simulator and the existing building does not comply with Sensitive Compartmented Information accreditation standards. Addition or modification of the current facility is</p>			

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5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 171212	7. PROJECT NUMBER: F14R501A	8. PROJECT COST (\$000) 15,000
<p>not a feasible option. Modification will cause mission disruption to both A-10 and F-16 training and does not adequately address the security concerns. Furthermore, addition to and modification of the existing facility is not a feasible option due to the impacts it would cause to current A-10 and F-16 simulator mission operations. The current work-around requires F-16 pilots to travel over four hours roundtrip to Kunsan Air Base. During this time, these pilots and controllers are unavailable for other duties at Osan Air Base. As a result, only two simulator missions for the entire 50-person F-16 squadron can be executed each day. This inadequate work-around significantly limits the number of pilots and controllers that are available to train on a daily/weekly basis. No facilities exist to meet Distributed Mission Operations space and infrastructure requirements.</p> <p>IMPACT IF NOT PROVIDED:</p> <p>Currently 8 personnel (4 pilots + 4 support personnel) go Temporary Duty (TDY) to Kunsan Air Base for 2 days weekly at a cost of \$1200-\$1500 per week. Readiness is impacted since any given week 4 pilots and 4 support personnel are off station 4 hours away at Kunsan which is greatly diminishing to "Fight Tonight" capabilities and execution of the Air Tasking Order (ATO). As of January 2019, the four-ship F-16 flight simulators are ready to be delivered to Osan Air Base, but they cannot be supplied until an adequate facility exists to accommodate them. The new Distributed Mission Operations simulators are crucial to support F-16 aircrews' training and proficiency and without an adequate facility to house and support them, pilot readiness and ability to "start the fight" will decline. Without this project, Osan Air Base must delay delivery of the Distributed Mission Operations simulators and United States Air Force operations will continue in a substandard, inadequately sized and configured facility, which will ultimately lead to mission disruption and inefficiencies. It has and will negatively affect the timely decision making process, battle management, and optimization of combined capabilities across warfighting platforms on the Korean peninsula during current and/or future contingency operations supporting the air tasking order (ATO). This project is required now and cannot wait four years because the current Unit Training Device simulator will be phased out within five years and it will take two to three years for the design and construction of the facility in addition to the accreditation process involved to certify Sensitive Compartmented Information operation areas before and after construction.</p> <p>ADDITIONAL:</p> <p>A. JOINT USE CERTIFICATE: For United States exclusive-use but can be used on an "as available" basis; however, the scope of the project is based on Air Force requirements. This facility will be available for use by the other components.</p> <p>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.</p>			

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: FEBRUARY 2024
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: DISTRIBUTED MISSION OPERATIONS FLIGHT SIMULATOR (ROKFC IN-KIND)	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 171212	7. PROJECT NUMBER: F14R501A	8. PROJECT COST (\$000) 15,000
<p>C. PHYSICAL SECURITY: This project has been coordinated with the installation physical security plan, and all physical security measures are included.</p> <p>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 Unified Facilities Criteria 4-010-01. All facilities will meet current Unified Facilities Criteria 4-010-01 standards for buildings and site. Major Antiterrorism/Force Protection building features will include design for progressive collapse and blast resistant windows and an Emergency Air Distribution Shutoff, ensuring any roof access prevents anyone from entering the building by utilizing locking mechanism, and caged ladders that can be locked to prevent access.</p> <p>E. SUSTAINABLE DESIGN AND DEVELOPMENT (SDD): Sustainable principles shall be integrated into the design, development, and construction of this project. 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 American Society of Heating, Refrigerating and Air-Conditioning Engineers (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 the Federal Energy Management Program.</p> <p>F. Full fire protection is required by regulation and Unified Facilities Criteria 3-600-01 to include a fire alarm/suppression system; mass notification system (MNS) as required by Unified Facilities Criteria 4-010-01; access control systems; and connection to the utility monitoring control system (UMCS). Fire Alarm panels shall include zone module cards that can support 16 zones. These additional zones are required to transmit exact location data to the fire alarm computer located at the fire department emergency communication center through the use of a building transmitter installed meeting the building design.</p> <p>G. This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. This design shall conform to criteria established in the Air Force Corporate Facilities Standards and the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from the Air Force Civil Engineer Center. The design must comply with Osan Air Base's Installation Planning Standards.</p> <p>H. Comprehensive interior design package for the Architectural & Engineering (AE) firm to complete as required by Unified Facilities Criteria 3-120-10.</p>			

1. COMPONENT: AIR FORCE	REPUBLIC OF KOREA FUNDED CONSTRUCTION (ROKFC)		2. DATE: FEBRUARY 2024
3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: DISTRIBUTED MISSION OPERATIONS FLIGHT SIMULATOR (ROKFC IN-KIND)	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 171212	7. PROJECT NUMBER: F14R501A	8. PROJECT COST (\$000) 15,000
<p>I. No portion of this facility is intended for Republic of Korea personnel exclusive or primary use.</p> <p>J. Flood Plain Statement: This project falls within the 100-year flood plain. The risk will be mitigated by constructing the facility and any flood-susceptible utilities above the 100-year flood level. This is a non-mission critical facility. The facility and any flood-susceptible utilities will be constructed a minimum of two feet above the 100-year flood elevation.</p> <p>K. The supporting facilities costs exceed 25% of the primary facilities costs due to the new Distributed Mission Operations facility is being built on a lowland area, requiring extensive site improvement by backfilling and piling.</p> <p>L. Facility is sited in accordance with the Installation Development Plan and is within a compatible land use area.</p> <p>M. Flight Simulator Facility: 1,225 Square Meters = 13,186 Square Feet.</p>			

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3. INSTALLATION AND LOCATION: OSAN AIR BASE, KOREA		4. PROJECT TITLE: DISTRIBUTED MISSION OPERATIONS FLIGHT SIMULATOR (ROKFC IN-KIND)	
5. PROGRAM ELEMENT: N/A	6. CATEGORY CODE: 171212	7. PROJECT NUMBER: F14R501A	8. PROJECT COST (\$000) 15,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Type of Design	Design-Bid-Build
(b) Date Design Started	May 2022
(c) Parametric Cost Estimates used to develop costs	YES
(d) Percent Complete	30%
(e) Date 30% Designed	Oct 2022
(f) Date Design Complete	Nov 2023
(g) Energy Study/Life-Cycle analysis was/will be performed	YES

(2) Basis:

(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	KUNSAN AIR BASE

(3) Total Cost (c) = (a) + (b) or (d) + (e) : (\$000)

(a) Production of Plans and Specifications	1,110
(b) All other Design Costs	560
(c) Total	1,670
(d) Contract	1,390
(e) In-house	280

(4) Construction Contract Award Aug 2024

(5) Construction Start Oct 2024

(6) Construction Completion Oct 2026

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

<u>Equipment Nomenclature</u>	<u>Procuring Appropriation</u>	<u>Fiscal Year Appropriated or Requested</u>	<u>Cost (\$000)</u>
Furniture, Fixture & Equip	3400	2025	300
Flight Simulator Equipment	3080	2025	TBD
Uninterruptible Power Supply	3080	2025	500

c. Explosive Safety Quantity-Distance (Q-D) Siting: The proposed site will require an Explosive Safety Site Plan (ESSP) IAW AFMAN 91-201, para 14.9.2 for new construction of non-explosives facilities within an explosive clear zone. 51 FW/SEW will start the ESP process for preliminary DDESB approval, which is required IAW para 13.8 and para 14.8 with the process taking roughly 6-10 months for approval.

d. Facilities and Areas Sub-Committee (FASC) Task: N/A

1. COMPONENT Dowództwo AIR FORCE	CY2022 POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA Dane dotyczące projektu infrastruktury zapewnianej przez Polskę	2. DATE data FEBRUARY 2024	REPORT CONTROL SYMBOL PPI	
3. INSTALLATION AND LOCATION Jednostka wojskowa oraz lokalizacja Lask Air Base, Poland (LAS)		4. PROJECT TITLE Nazwa projektu AT/FP Upgrades for RPA Mission		
5. PROGRAM ELEMENT Element programu XXXXXX	6. CATEGORY CODE Kategoria Projektu 730-832	7. PROJECT NUMBER Numer Projektu LAS-1116-PL	8. PROJECT COST (\$000) Całkowity koszt projektu 22,000	
9. COST ESTIMATES Kosztorysy				
ITEM Pozycja	U/M Miara	QUANTITY Ilość	UNIT COST Koszt (\$)	COST Koszt (\$000)
PRIMARY FACILITIES Główny Obiekt				
NEW VISITOR CENTER (730-832)	SM	158	8,878.51	5,510 (1,403)
GATE HOUSE (732839)	SM	44	16,796.47	(739)
COMMERCIAL VEHICLE SEARCH CANOPY/GATEHOUSE (732-839)	SM	164	9,219.35	(1,512)
ID CHECK CANOPY (145-921)	SM	400	1,772.93	(709)
OVERWATCH (872-845)	EA	1	794,131.38	(794)
ATFP MEASURES (2%)	LS	-	-	(103)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS (2.5%)	LS	-	-	(250)
SUPPORTING FACILITIES Obiekty wspierające				
SITE PREPARATION AND DEMOLITION	LS			13,778 (1,636)
PAVEMENT	LS			(3,997)
SITE IMPROVEMENTS	LS			(700)
PASSIVE VEHICLE BARRIER	LS			(6,739)
ACTIVE VEHICLE BARRIER	LS			(523)
UTILITIES	LS			(182)
SUBTOTAL				19,288
CONTINGENCY (5.0%)				964
TOTAL CONTRACT COST				20,253
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)				1,478
TOTAL REQUEST				21,731
TOTAL REQUEST (ROUNDED)				22,000
ASSOCIATED EQUIPMENT				350
10. DESCRIPTION OF PROPOSED CONSTRUCTION				
DESCRIPTION: Construct antiterrorism and force protection (ATFP) upgrades at Lask Air Base to support beddown of Remotely Piloted Aircraft (RPA) mission. ATFP upgrades include new Entry Control Facilities at the existing base main gate including a Visitor Control Center, Search Office, Vehicular Gatehouse, ID Check Canopy over Guard Booths, Cargo and Vehicle Inspection System facility, and Overwatch. Supporting facilities include site work; backup generator; landscaping, grading and paving; perimeter and ornamental fencing; and all required utility systems: water, power, sewer, stormwater drainage, central heating, fire alarm systems, exterior security lighting and cameras, and information systems connectivity. Air conditioning will be provided by self-contained, exterior-mounted control units. Entry control point primary and supporting facilities will be designed in accordance with Unified Facilities Criteria 4-022-01, "Entry Control				

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Facilities / Access Control Points" and follow Access Control Points Standard Design developed by United State Army Corps of Engineers, Omaha District in conjunction with the SDDCTEA Pamphlet 55-17. Project includes supplementing 10.9 km of existing perimeter fence to create a compliant passive vehicle barrier. Local materials and construction techniques shall be used when cost effective. This project is authorized a generator, per AFI 32-1062. The project requires demolition of the existing Visitor Center, septic system, and 620 SM of existing roadway and pavement. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense Minimum Antiterrorism Standards for Buildings requirements per Unified Facility Criteria 4-010-01.			
<p>11. REQUIREMENT</p> <p>PROJECT: Construct Antiterrorism and Force Protection (ATFP) upgrades at Lask Air Base (New Mission)</p> <p>REQUIREMENT: This project is required by USAFE-AFAFRICA (USAFE-AFAFRICA) missions to support the Polish Provided Infrastructure (PPI) initiative. PPI represents a key tool for the implementation of the Enhanced Defense Cooperation Agreement (EDCA) between the United States of America and the Republic of Poland signed in Warsaw on August 15, 2020 and entered into force November 13, 2020. It serves as a critical guide to define both U.S. and Polish defense mission, facility, and infrastructure needs. The RPA mission includes communications infrastructure upgrades, connecting taxiways, RPA Hangars, RPA Cockpit Pads, Ground Communications and Data Support Area, RPA Squadron Operations Facility, Medical/Dental Facility, Dormitory, Dining Facility, Armory, Motorpool Area, Munitions Areas, and Contingency Beddown Area. This project is required to provide adequate anti-terrorism and force protection measures at Lask Air Base as part of PPI.</p> <p>CURRENT SITUATION: Lask Air Base is one of the premier air bases in the Polish Air Force. The base is currently home to a squadron of F-16s and there are no Remotely Piloted Aircraft (RPA) operations at the base. The operational aircraft are parked in Hardened Aircraft Shelters (HAS) located on the northwest corner of the airfield. The airfield development is located north of the runway centerline and consists of a parallel taxiway, ladder taxiways, and a series of taxiways that provided access to the aircraft shelters. Along the parallel taxiway there are three aircraft parking aprons, and there are arm/dearm pads located along the ladder taxiways that connect to the runway thresholds. Over the next several years the base is expanding its air power with the addition of F-35s. The beddown of the F-35s will occur in the southeastern portion of the airfield south of Runway 10/28 and will consist of aircraft parking, connecting taxiways, hangars, and additional supporting facilities for F-35 operations. That development will only provide the necessary airfield pavement to support F-35 operations. A complete parallel taxiway south of Runway 10/28 is not included with the F-35 airfield pavements but rather a small segment of a parallel taxiway. The proposed RPA development is in the southwestern corner of the installation just west of the F-35 development area. The RPA development will include an aircraft maintenance hangar, squadron operations building, aircraft parking apron, weapons loading apron, connecting taxiways, ground control station area, ground data terminal area, and munitions holding area. The ATFP upgrades include a new, compliant Entry Control Facility with a Large Vehicle Inspection Station, improvements to the perimeter fence to include passive vehicle barriers, and a new patrol/access road providing access from the north side of the airfield to the new RPA operations area that allows personnel to circulate between all facilities without leaving the base.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided, the RPA will not have adequate physical security measures in place. Without these protections, the RPAs will be unable to complete daily training missions and real world taskings. The RPA mission at Lask AB cannot function without this project.</p>			

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5. PROGRAM ELEMENT Element programu XXXXXX	6. CATEGORY CODE Kategoria Projektu 730-832	7. PROJECT NUMBER Numer Projektu LAS-1116-PL	8. PROJECT COST (\$000) Całkowity koszt projektu 22,000
<p>ADDITIONAL: This project meets the scope/criteria specified in Air Force Manual 32-1084, Facility Requirements Unified Facility Criteria 3-260-01 Airfield & Heliport Planning & Design, Unified Facility Criteria 3-260-02 Pavement Design for Airfields, United States Air Force in Europe & Air Force in Africa 32-1007 Airfield and Heliport Planning and Design, and NATO Bi-SC Directive 085-005 NATO Criteria and Standards for Airfields, as applicable. 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. A parametric cost estimate based upon project engineering design was used to develop this budget estimate.</p> <p>STANDARD DESIGN: The facilities included in the design shall conform to criteria established in the Air Force Corporate Facilities Standards (AFCFS), the Installation Facilities Standards (IFS) and shall follow the Air Force Civil Engineer Center - Facilities Dynamic Prototypes Design: Entry Control Facilities / Installation Access Control Points (ECF/IACP) Standard Design dated 01 March 2015 in coordination with the Host Nation.</p> <p>ECONOMIC ANALYSIS (EA) STATEMENT: Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02 the Energy Policy Act 2005, Executive Orders 13123 and 13423, 10 United States Code (USC) 2802 (c), and other applicable laws and Executive orders. This includes the preparation of a life-cycle cost analysis (LCCA) for energy consuming systems, renewable energy generating systems, or when life cycle cost effective (LCCE) is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable.</p>			

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<p>NATO STATEMENT: NATO eligibility for this project has not yet been established.</p> <p>FYDP STATEMENT: NA</p> <p>MASTER PLAN STATEMENT: Facility is sited in accordance with current Lask Air Base plans and is within a compatible land use area.</p> <p>JOINT USE CERTIFICATION: These facilities can be used by other components on an "as available" basis; however, the scope of the project is based on United States Air Force requirements.</p> <p>NATO SECURITY INVESTMENT: As the Host Nation, Poland should submit to the NATO Office of Resources (NOR) the Prefinancing Statement (PFS) for the project to be included in Capability Package CP3A0019. This project is partially eligible for funding within an established NATO infrastructure category for common funding and has the potential for reimbursement (partially or whole) from NATO Security Investment Program (NSIP) funds.</p>																															
<p>12. SUPPLEMENTAL DATA</p> <p>PLANNING AND DESIGN DATA (ESTIMATE)</p> <p>(1) Status:</p> <table border="0" style="width: 100%;"> <tr> <td>(a) Type of Design</td> <td style="text-align: right;">Design-Bid-Build</td> </tr> <tr> <td>(b) Date Design Started</td> <td style="text-align: right;">01 AUG 23</td> </tr> <tr> <td>(c) Parametric Cost Estimates Used to develop costs</td> <td style="text-align: right;">YES</td> </tr> <tr> <td>(d) Percent Complete as of 01 JAN 2023</td> <td style="text-align: right;">0%</td> </tr> <tr> <td>(e) Date 35% Designed</td> <td style="text-align: right;">01 DEC 23</td> </tr> <tr> <td>(f) Date Design Complete</td> <td style="text-align: right;">01 JUN 24</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td style="text-align: right;">YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0" style="width: 100%;"> <tr> <td>(a) Standard or Definitive Design</td> <td style="text-align: right;">NO</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used</td> <td style="text-align: right;">N/A</td> </tr> </table> <p>(3) Total Cost (c) = (a) + (b) or (d) + (e) (\$000)</p> <table border="0" style="width: 100%;"> <tr> <td>(a) Production of Plans and Specifications (6%)</td> <td style="text-align: right;">1,080</td> </tr> <tr> <td>(b) All Other Design Costs (3%)</td> <td style="text-align: right;">544</td> </tr> <tr> <td>(c) Total</td> <td style="text-align: right;">1,624</td> </tr> <tr> <td>(d) Contract (7.5%)</td> <td style="text-align: right;">1,350</td> </tr> <tr> <td>(e) In-house (1.5%)</td> <td style="text-align: right;">270</td> </tr> </table> <p>(4) Construction Contract Award 24 OCT</p> <p>(5) Construction Start 24 DEC</p> <p>(6) Construction Completion 27 OCT</p>				(a) Type of Design	Design-Bid-Build	(b) Date Design Started	01 AUG 23	(c) Parametric Cost Estimates Used to develop costs	YES	(d) Percent Complete as of 01 JAN 2023	0%	(e) Date 35% Designed	01 DEC 23	(f) Date Design Complete	01 JUN 24	(g) Energy Study/Life-Cycle analysis was/will be performed	YES	(a) Standard or Definitive Design	NO	(b) Where Design Was Most Recently Used	N/A	(a) Production of Plans and Specifications (6%)	1,080	(b) All Other Design Costs (3%)	544	(c) Total	1,624	(d) Contract (7.5%)	1,350	(e) In-house (1.5%)	270
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5. PROGRAM ELEMENT Element programu XXXXXX	6. CATEGORY CODE Kategoria Projektu 730-832	7. PROJECT NUMBER Numer Projektu LAS-1116-PL	8. PROJECT COST (\$000) Całkowity koszt projektu 22,000

b. Equipment associated with this project:

EQUIPMENT NOMENCLATURE:	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE FIXTURES & EQUIPMENT	2026	325
COMMUNICATION EQUIPMENT	2026	TBD
OTHER	N/A	0

1. COMPONENT Dowództwo AIR FORCE	CY2022 POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA Dane dotyczące projektu infrastruktury zapewnianej przez Polskę	2. DATE data FEBRUARY 2024	REPORT CONTROL SYMBOL PPI	
3. INSTALLATION AND LOCATION Jednostka wojskowa oraz lokalizacja Lask Air Base, Poland (LAS)		4. PROJECT TITLE Nazwa projektu Communications Infrastructure for RPA Mission Infrastruktura komunikacyjna dla misji RPA		
5. PROGRAM ELEMENT Element programu XXXXXX	6. CATEGORY CODE Kategoria Projektu 135-583	7. PROJECT NUMBER Numer Projektu LAS-1118-PL	8. PROJECT COST (\$000) Całkowity koszt projektu 18,000	
9. COST ESTIMATES Kosztorysy				
ITEM Pozyc	U/M Miara	QUANTITY Ilość	UNIT COST Koszt (\$)	COST Koszt
PRIMARY FACILITIES				575
PRIMARY TECHNICAL CONTROL FACILITY/INFO TRANSFER BUILDING (131-111)	SM	47	6,031.98	(284)
SECONDARY TECHNICAL CONTROL FACILITY/INFO TRANSFER BUILDING (131-111)	SM	20	1,779.95	(36)
ATFP MEASURES (2%)	LS	2.0%	-	(6)
CYBER-SECURITY SYSTEMS ALLOWANCE	LS		-	(250)
SUPPORTING FACILITIES				15,308
SITE PREPARATION AND DEMOLITION	LS			(472)
ENVIRONMENTAL MITIGATION	LS			(1,299)
SITE IMPROVEMENTS	LS			(266)
COMMUNICATIONS INFRASTRUCTURE (135-583)	LS			(13,270)
SUBTOTAL				15,883
CONTINGENCY (5.0%)				794
TOTAL CONTRACT COST				16,677
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)				1,217
TOTAL REQUEST				17,895
TOTAL REQUEST (ROUNDED)				18,000
ASSOCIATED EQUIPMENT				500
10. DESCRIPTION OF PROPOSED CONSTRUCTION				
DESCRIPTION: Construct fiber optic cable network in new concrete ducts and associated communications facilities. Facilities consist of new construction 47 m2 (500 SF) Technical Control Facility (TCF) and Information Transfer Building (ITB) with a 10m2 (100 SF) Technical Control Operations (TCO) room, and expansion of the Point of Presence (POP) facility within the existing Air Traffic Control Tower through renovation of 20m2 (200 SF) of unused space. TCF/ITB will be steel frame CMU block wall combination with 0.5 m (18 inches) raised floor and 3.7 m (12 ft) high ceilings for equipment room. Air cooling required: 2.5 Tons. Planned F-35 Beddown fiber ring will be expanded to run through future Remotely Piloted Aircraft (RPA) operational area and include 144 single-mode (OS3) fiber strands. Fiber ring will be 8,900 Linear Meters (LM) with layout serving aRPA) area and providing a complete circuit around runway with redundant pathways to POP. 650 LM of new 48 strand single-mode fiber cable is required to support future Munitions Storage Area (MSA) facilities. Approximately 2,690 LM of new 48 strand single-mode fiber optic cable is required to provide service to future RPA Support Area and MSA along existing communication pathways. New fiber optic pathways are required to support redundant provider connection from off base connections, up to 320 LM, to connect to new networks. Supporting facilities include demolition and site work, landscaping and grading, pavements, manholes, information systems,				

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and utility connections for power. Fiber optic encryption/decryption equipment installed within secured telecommunications rooms. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010-01.			
11. REQUIREMENT: 13,682 LM Adequate: 0 LM Substandard: 13,682 LM			
PROJECT: Construct base-wide communications infrastructure to support USAFE RPA mission and the PPI Program. (New Mission)			
REQUIREMENT: This project is required by USAFE-AFAFRICA missions to support the Polish Provided Infrastructure (PPI) initiative. PPI represents a key tool for the implementation of the Enhanced Defense Cooperation Agreement (EDCA) between the United States of America and the Republic of Poland signed in Warsaw on August 15, 2020, and entered into force November 13, 2020. It serves as a critical guide to define both U.S. and Polish defense mission, facility, and infrastructure needs. This project is required to provide secure, reliable communications for Lask Air Base (LAB) and the Remotely Piloted Aircraft (RPA) mission as part of PPI as well as all U.S. occupied facilities, including RPA Hangars, RPA Cockpit Pads, Ground Communications and Data Support Area, RPA Squadron Operations Facility, Medical/Dental Facility, Dormitory, Dining Facility, Armory, Motorpool Area, Munitions Areas, and Contingency Beddown Area. This secure communications infrastructure will serve to support the primary location for RPAs operated by USAFE-AFAFRICA in Poland and enduring rotational force missions. This project will provide direct mission support to RPAs operating at LAB and necessary resources to ensure continuous and adequate secure communications connections with operational forces in the Area of Responsibility (AOR) and worldwide. Lask AB will support up to 450 forward stationed U.S. rotational personnel working directly with the RPA mission and a surge capacity during major exercises and training events. This project provides adequate and secure permanent information technology (IT) and communication facilities to support the RPA mission activities at LAB. New communications infrastructure for the proposed MQ-9 Operations facility, adequately sized and configured with appropriate security and redundant systems, is required to support the MQ-9 airframe. This requirement includes NIPR, SIPR, VOSIP, and JWICS service to the RPA Squadron Operations Facility, and network service as needed to other U.S.occupied facilities. There is a requirement for dedicated space in Building 101, the primary commercial POP, as well as a backup POP facility with a physically diverse path to provide true redundancy. A Technical Control Facility (TCF) with an adjacent Tech Control Operations room, and an Information Transfer Building (ITB) is required with physical security required for network equipment. Mechanical and fire protection systems for environmental protection of network equipment is also required. Cabling requirements include 144 single-mode (OS3) fiber strands between POP facility and TCF/ITB and a minimum of 24 single-mode (OS2) fiber strands from TCF/ITB to any U.S.-occupied buildings requiring network access. Trenching and inter-building concrete cable ducts is required to provide redundant and physically diverse cable pathways between ITB and buildings requiring 24/7 mission critical operations. Provide Uninterrupted Power Supplies (UPS) at ITBs and critical mission buildings capable of supporting an orderly shutdown or switchover of communication equipment to backup generator power. UPS provides short term emergency power to a required rack of network equipment to allow adequate time for Communications personnel to safely power down equipment and/or time for backup power to initiate. Contingency and emergency communication mode is required to allow SATCOM or microwave communications to be used for mission critical tasks.			
CURRENT SITUATION: The capability and communications infrastructure to support the required redundant, mission-critical secure communications for USAFE-AFAFRICA missions does not currently exist at Lask Air Base. The existing Polish communications infrastructure is undersized and not adequate to meet U.S. needs and requirements. Existing communications infrastructure available for use by the U.S. is not available to proposed development sites. Currently, U.S. personnel utilize temporary communications and the existing network provided for the detachment for secure communications while working at Lask AB. Current infrastructure does not provide the capacity to accommodate the RPA mission.			

1. COMPONENT Dowództwo AIR FORCE	CY2022 POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA Dane dotyczące projektu infrastruktury zapewnianej przez Polskę	2. DATE data FEBRUARY 2024	REPORT CONTROL SYMBOL PPI
3. INSTALLATION AND LOCATION Jednostka wojskowa oraz lokalizacja Lask Air Base, Poland (LAS)		4. PROJECT TITLE Nazwa projektu Communications Infrastructure for RPA Mission Infrastruktura komunikacyjna dla misji RPA	
5. PROGRAM ELEMENT Element programu XXXXXX	6. CATEGORY CODE Kategoria Projektu 135-583	7. PROJECT NUMBER Numer Projektu LAS-1118-PL	8. PROJECT COST (\$000) Całkowity koszt projektu 18,000
<p>IMPACT IF NOT PROVIDED: If this project is not provided the implementation of PPI-required facilities and missions will be slowed at Lask Air Base and personnel would be required to continue to meet communications needs with sub-standard and less secure communications infrastructure with increased down time, data/information transfer, and response times. This would lead to decreases in sorties, increased timeframes for U.S. and multi-national training exercises, and additional downtime of RPAs which would negatively impede theater presence and impair mission capability and operational readiness. The RPA mission at Lask AB cannot function on an enduring basis without this project.</p>			
<p>ADDITIONAL: This project meets the scope/criteria specified in Air Force Manual 32-1084, Facility Requirements. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New Construction is the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, or whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This is an installation utility/infrastructure project and does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project. No portion of this facility is intended for Republic of Poland personnel exclusive or primary use. 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.</p>			
<p>STANDARD DESIGN: This design shall conform to criteria established in the Air Force Corporate Facilities Standards (AFCFS), the Installation Facilities Standards (IFS) but will not employ a standard facility design because there is no Air Force standard facility design for this specific project and there is no applicable standard design from the Host Nation.</p>			
<p>ECONOMIC ANALYSIS (EA) STATEMENT: Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02 the Energy Policy Act 2005, Executive Orders 13123 and 13423, 10 United States Code (USC) 2802 (c), and other applicable laws and Executive orders. This includes the preparation of a life-cycle cost analysis (LCCA) for energy consuming systems, renewable energy generating systems, or when life cycle cost effective (LCCE) is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New Construction is the only viable option to meet this requirement. Alternative methods of meeting this requirement have been explored during project development. This project is the only feasible option to meet the requirement. The facility will be available for use by other components. A parametric cost estimate based upon project engineering design was used to develop this budget estimate.</p>			
<p>NATO STATEMENT: NATO eligibility for this project has not yet been established.</p>			
<p>FYDP STATEMENT: NA</p>			
<p>MASTER PLAN STATEMENT: Facility is sited in accordance with current Lask Air Base plans and is within a compatible land use area.</p>			
<p>JOINT USE CERTIFICATION: These facilities can be used by other components on an "as available" basis; however, the scope of the project is based on United States Air Force requirements.</p>			

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<p>NATO SECURITY INVESTMENT: As the Host Nation, Poland should submit to the NATO Office of Resources (NOR) the Prefinancing Statement (PFS) for the project to be included in Capability Package CP3A0019. This project is partially eligible for funding within an established NATO infrastructure category for common funding and has the potential for reimbursement (partially or whole) from NATO Security Investment Program (NSIP) funds.</p>																															
<p>12. SUPPLEMENTAL DATA</p> <p>PLANNING AND DESIGN DATA (ESTIMATE)</p> <p>(1) Status:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">(a) Type of Design</td> <td style="text-align: right;">Design-Bid-Build</td> </tr> <tr> <td>(b) Date Design Started</td> <td style="text-align: right;">01 AUG</td> </tr> <tr> <td>(c) Parametric Cost Estimates Used to develop costs</td> <td style="text-align: right;">YES</td> </tr> <tr> <td>(d) Percent Complete as of 01 JAN 2023</td> <td style="text-align: right;">0%</td> </tr> <tr> <td>(e) Date 35% Designed</td> <td style="text-align: right;">01 DEC</td> </tr> <tr> <td>(f) Date Design Complete</td> <td style="text-align: right;">01 JUN</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td style="text-align: right;">YES</td> </tr> </table> <p>(2) Basis:</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">(a) Standard or Definitive Design</td> <td style="text-align: right;">NO</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used</td> <td style="text-align: right;">N/A</td> </tr> </table> <p>(3) Total Cost(c) = (a) + (b) or (d) + (e) (\$000)</p> <table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">(a) Production of Plans and Specifications (6%)</td> <td style="text-align: right;">1,080</td> </tr> <tr> <td>(b) All Other Design Costs(3%)</td> <td style="text-align: right;">544</td> </tr> <tr> <td>(c) Total</td> <td style="text-align: right;">1,624</td> </tr> <tr> <td>(d) Contract (7.5%)</td> <td style="text-align: right;">1,350</td> </tr> <tr> <td>(e) In-house (1.5%)</td> <td style="text-align: right;">270</td> </tr> </table> <p>(4) Construction Contract Award 24 OCT</p> <p>(5) Construction Start 24 DEC</p> <p>(6) Construction Completion 27 OCT</p>				(a) Type of Design	Design-Bid-Build	(b) Date Design Started	01 AUG	(c) Parametric Cost Estimates Used to develop costs	YES	(d) Percent Complete as of 01 JAN 2023	0%	(e) Date 35% Designed	01 DEC	(f) Date Design Complete	01 JUN	(g) Energy Study/Life-Cycle analysis was/will be performed	YES	(a) Standard or Definitive Design	NO	(b) Where Design Was Most Recently Used	N/A	(a) Production of Plans and Specifications (6%)	1,080	(b) All Other Design Costs(3%)	544	(c) Total	1,624	(d) Contract (7.5%)	1,350	(e) In-house (1.5%)	270
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3. INSTALLATION AND LOCATION Jednostka wojskowa oraz lokalizacja Lask Air Base, Poland (LAS)		4. PROJECT TITLE Nazwa projektu Communications Infrastructure for RPA Mission Infrastruktura komunikacyjna dla misji RPA	
5. PROGRAM ELEMENT Element programu XXXXXX	6. CATEGORY CODE Kategoria Projektu 135-583	7. PROJECT NUMBER Numer Projektu LAS-1118-PL	8. PROJECT COST (\$000) Całkowity koszt projektu 18,000

b. Equipment associated with this project:

EQUIPMENT NOMENCLATURE	FISCAL YEAR	COST
	APPROPRIATED	(\$000)
	OR REQUESTED	
FURNITURE FIXTURES & EQUIPMENT	2026	350
COMMUNICATION EQUIPMENT	2026	150
OTHER	2026	0

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3. INSTALLATION AND LOCATION Jednostka wojskowa oraz lokalizacja Lask Air Base, Poland (LAS)		4. PROJECT TITLE Nazwa projektu Ground Communications and Data Support Area for RPA Mission		
5. PROGRAM ELEMENT Element programu XXXXXX	6. CATEGORY CODE Kategoria Projektu 131-116	7. PROJECT NUMBER Numer Projektu LAS-1117-PL	8. PROJECT COST (\$000) Całkowity koszt projektu 5,000	
9. COST ESTIMATES Kosztorysy				
ITEM Pozycja	U/M Miara	QUANTITY Ilość	UNIT COST Koszt (\$)	COST Koszt (\$000)
PRIMARY FACILITIES				
GROUND COMMUNICATIONS INFRASTRUCTURE (131-116)	LM	2,734	1,262.63	3,771 (3,452)
ATFP MEASURES (2%)	LS	-	-	(69)
CYBERSECURITY SYSTEMS ALLOWANCE	LS	-	-	(250)
SUPPORTING FACILITIES				
SITE PREPARATION AND DEMOLITION	LS			268 (268)
SUBTOTAL				
CONTINGENCY (5.0%)				
TOTAL CONTRACT COST				
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)				
TOTAL REQUEST				
TOTAL REQUEST (ROUNDED)				
ASSOCIATED EQUIPMENT				

10. DESCRIPTION OF PROPOSED CONSTRUCTION
DESCRIPTION

Construct four Ground Data Terminal (GDT) antennas to support beddown of Remotely Piloted Aircraft (RPA) mission. Supporting facilities include site work: landscaping and grading, apron and pads for the GDT antennas, paved driveway, security fencing, and underground conduit fiber optic and power utility connections to RPA Squadron Operations Facility and fiber optic connection to RPA Cockpit Pads, with suitable breakout panels. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010-01.

Air Conditioning: N/A

11. REQUIREMENT: 2,734M Adequate/Odpowiedni: 0M Substandard/Substandardowe: 0M

PROJECT: Construct Ground Communications and Data Support Area to support USAFE RPA mission and the PPI Program at Lask AB. (New Mission)

REQUIREMENT: This project is required by USAFE-AFAFRICA missions to support the Polish Provided Infrastructure (PPI) initiative. PPI represents a key tool for the implementation of the Enhanced Defense Cooperation Agreement (EDCA) between the United States of America and the Republic of Poland signed in Warsaw on August 15, 2020 and entered into force November 13, 2020. It serves as a critical guide to define both U.S. and Polish defense mission, facility, and infrastructure needs. This project is required to provide adequate ground communications and data support with the Remotely Piloted Aircraft at Lask Air Base as part of PPI and support RPA command links, connecting CONUS-based ground control stations/mission control elements for RPAs in the AOR. Completion of this project will satisfy the long-term data support requirements for

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RPAs assigned to Lask AB. High costs are driven by the required special PL-2 security features.			
<p>CURRENT SITUATION: Lask Air Base is one of the premier air bases in the Polish Air Force. The base is currently home to a squadron of F-16s and there are no Remotely Piloted Aircraft (RPA) operations at the base. The operational aircraft are parked in Hardened Aircraft Shelters (HAS) located on the northwest corner of the airfield. The airfield development is located north of the runway centerline and consists of a parallel taxiway, ladder taxiways, and a series of taxiways that provided access to the aircraft shelters. Along the parallel taxiway there are three aircraft parking aprons, and there are arm/dearm pads located along the ladder taxiways that connect to the runway thresholds. Over the next several years the base is expanding its air power with the addition of F-35s. The beddown of the F-35s will occur in the southeastern portion of the airfield south of Runway 10/28. This development will consist of aircraft parking, connecting taxiways, hangars, and additional supporting facilities for F-35 operations. This development only provides the necessary airfield pavement to support F-35 operations. The proposed RPA development is in the southwestern corner of the installation just west of the F-35 development area. The RPA development will include an aircraft maintenance hangar, squadron operations building, aircraft parking apron, weapons loading apron, connecting taxiways, ground control station area, ground data terminal area, and munitions holding area. The capability and communications infrastructure required to support secure communications to control the aircraft while on the ground and in the airspace around Lask Air Base does not currently exist. Existing communications infrastructure available for use by the U.S. is not available to proposed development sites. The communications area and antennas will be sited following the requirements established in USAFE-AFAFRICA Instruction 32-1007 (Airfield and Heliport Planning and Design) and NATO Bi-SC Directive 085-005 (NATO Criteria and Standards for Airfields).</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided control of the RPAs during launch and recovery will not be possible. Without a viable connection the RPAs will be unable to complete daily training missions and real world taskings. This would lead to decreases in sorties, increased timeframes for U.S. and multi-national training exercises, and additional downtime of RPAs which would negatively impede theater presence and impair mission capability and operational readiness. The RPA mission at Lask AB cannot function without this project.</p> <p>ADDITIONAL: This project meets the scope/criteria specified in Air Force Manual 32-1084, Facility Requirements Unified Facility Criteria 3-260-01 Airfield & Heliport Planning & Design, Unified Facility Criteria 3-260-02 Pavement Design for Airfields, United States Air Force in Europe & Air Force in Africa 32-1007 Airfield and Heliport Planning and Design, and NATO Bi-SC Directive 085-005 NATO Criteria and Standards for Airfields, as applicable. 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. A parametric cost estimate based upon project engineering design was used to develop this budget estimate.</p>			

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<p>ECONOMIC ANALYSIS (EA) STATEMENT: Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02 the Energy Policy Act 2005, Executive Orders 13123 and 13423, 10 United States Code (USC) 2802 (c), and other applicable laws and Executive orders. This includes the preparation of a life-cycle cost analysis (LCCA) for energy consuming systems, renewable energy generating systems, or when life cycle cost effective (LCCE) is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable.</p> <p>NATO STATEMENT: NATO eligibility for this project has not yet been established.</p> <p>FYDP STATEMENT: NA</p> <p>MASTER PLAN STATEMENT: Facility is sited in accordance with current Lask Air Base plans and is within a compatible land use area.</p> <p>JOINT USE CERTIFICATION: These facilities can be used by other components on an "as available" basis; however, the scope of the project is based on United States Air Force requirements.</p> <p>NATO SECURITY INVESTMENT: As the Host Nation, Poland should submit to the NATO Office of Resources (NOR) the Prefinancing Statement (PFS) for the project to be included in Capability Package CP3A0019. This project is partially eligible for funding within an established NATO infrastructure category for common funding and has the potential for reimbursement (partially or whole) from NATO Security Investment Program (NSIP) funds.</p>			

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3. INSTALLATION AND LOCATION Jednostka wojskowa oraz lokalizacja Lask Air Base, Poland (LAS)	4. PROJECT TITLE Nazwa projektu Ground Communications and Data Support Area for RPA Mission
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5. PROGRAM ELEMENT Element programu XXXXXX	6. CATEGORY CODE Kategoria Projektu 131-116	7. PROJECT NUMBER Numer Projektu LAS-1117-PL	8. PROJECT COST (\$000) Całkowity koszt projektu 5,000
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b. Equipment associated with this project:

EQUIPMENT NOMENCLATURE	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE FIXTURES & EQUIPMENT	N/A	0
COMMUNICATION EQUIPMENT	2027	300
OTHER	N/A	0

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3. INSTALLATION AND LOCATION Jednostka wojskowa oraz lokalizacja Lask Air Base, Poland (LAS)		4. PROJECT TITLE Nazwa projektu Maintenance Hangar for PPI RPA Mission		
5. PROGRAM ELEMENT Element programu XXXXXX	6. CATEGORY CODE Kategoria Projektu 211-111	7. PROJECT NUMBER Numer Projektu LAS-1102-PL	8. PROJECT COST (\$000) Całkowity koszt projektu 69,000	
9. COST ESTIMATES Kosztorysy				
ITEM Pozycja	U/M Miara	QUANTITY Ilość	UNIT COST Koszt (\$)	COST Koszt (\$000)
PRIMARY FACILITIES				
RPA MAINTENANCE HANGAR (211-111)	SM	11,056	3,972.83	44,816 (40,286)
HANGAR ACCESS APRON (113-321)	SM	5,463	429.07	(2,344)
PAVED SHOULDER (116-642)	SM	1,218	210.59	(256)
ATFP MEASURES (2%)	LS	-	-	(858)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS(2.5%)	LS	-	-	(1,072)
SUPPORTING FACILITIES				
SITE PREPARATION/DEMOLITION	LS			16,363 (41)
ENVIRONMENTAL MITIGATION	LS			(163)
SITE IMPROVEMENTS	LS			(1,531)
PASSIVE FORCE PROTECTION	LS			(6,711)
UTILITIES	LS			(635)
	LS			(7,282)
SUBTOTAL				
CONTINGENCY (5.0%)				61,179 3,059
TOTAL CONTRACT COST				
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)				64,238 4,689
TOTAL REQUEST				
TOTAL REQUEST (ROUNDED)				
ASSOCIATED EQUIPMENT				68,927 69,000 3,238
10. DESCRIPTION OF PROPOSED CONSTRUCTION				
DESCRIPTION: Construct a standard design general maintenance hangar facility to accommodate Remotely Piloted Aircraft (RPA) at Lask Air Base. The facility includes hangar bays capable of holding up to 14 MQ-9A-sized aircraft including two additional bays for fuel and maintenance, offices, tools and parts storage, battery shop, engine repair shop, SATCOM shop, break rooms, and other support space. The facility will be equipped with three 20,000 lbs cranes, motorized vertical lifting fabric hangar doors, and a high expansion foam fire suppression system. Supporting facilities include the hangar access apron and associated apron shoulders, open storage area, utilities, pavements, fencing and gates, site improvements, communications, and all other necessary infrastructure support. All work carried out shall include the requirements as identified in the AF813-O Request for Overseas Environmental Impact Analysis and as stated in the Certificate of Compliance for Critical Planning Actions. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, General Building Requirements and Department of the Air Force Handbook 32-1084 and Department of the Air Force Manual 32-1084, Facility Requirements. This project will incorporate all required sustainable principles and these shall be integrated into the project design, development, and construction in accordance with Executive Orders, Unified facility Criteria and other applicable laws. All work carried out must comply with Department of Defense Anti-Terrorism				

1. COMPONENT Dowództwo AIR FORCE	CY2022 POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA Dane dotyczące projektu infrastruktury zapewnianej przez Polskę	2. DATE data FEBRUARY 2024	REPORT CONTROL SYMBOL PPI
3. INSTALLATION AND LOCATION Jednostka wojskowa oraz lokalizacja Lask Air Base, Poland (LAS)		4. PROJECT TITLE Nazwa projektu Maintenance Hangar for PPI RPA Mission	
5. PROGRAM ELEMENT Element programu XXXXXX	6. CATEGORY CODE Kategoria Projektu 211-111	7. PROJECT NUMBER Numer Projektu LAS-1102-PL	8. PROJECT COST (\$000) Całkowity koszt projektu 69,000
<p>/ Force Protection requirements per Unified Facility Criteria 4-010-01, Department of Defense Minimum Antiterrorism Standards for Buildings and all other relevant Unified Facilities Criteria, Air Force Instructions, National Fire Protection Association regulations, Polish Building Regulations, and Łask Air Base Standards. All work associated with this project shall comply with United States Air Force and Host Nation regulations and agreements. All known alternative options were considered during the development of this project.</p> <p>Air Conditioning / Klimatyzacja: 15 Tons</p>			
<p>11. REQUIREMENT 11,056SM Adequate: OSM Substandard: OSM</p> <p>PROJECT: Construct Remotely Piloted Aircraft Hangar. (New Mission)</p> <p>REQUIREMENT: This project is required by USAFE-AFAFRICA missions to support the Polish Provided Infrastructure (PPI) initiative. PPI represents a key tool for the implementation of the Enhanced Defense Cooperation Agreement (EDCA) between the United States of America and the Republic of Poland signed in Warsaw on August 15, 2020 and entered into force November 13, 2020. It serves as a critical guide to define both U.S. and Polish defense mission, facility, and infrastructure needs. This project is required to provide adequate maintenance and support for Remotely Piloted Aircraft operations at Łask Air Base as part of PPI. The Remotely Piloted Aircraft hangar is part of PPI at Łask Air Base which also includes AT/FP upgrades, communications infrastructure upgrades, ground communications, cockpit pads, connecting taxiways, RPA ramp, squadron operations facility, hot cargo pads and munitions storage and handling areas, a contingency Beddown area, armories, a dormitory with laundry, a dining facility, a medical and dental clinic space, administrative spaces, post office, and motorpool area.</p> <p>The Remotely Piloted Aircraft Hangar is based on the Air Force RPA General Maintenance Hangar Facility Standard Design dated 01 November 2018 and is a one story structure with direct access to the flight line. The Hangar holds 14 MQ-9A-sized aircraft including two additional bays for fuel and maintenance, remotely piloted aircraft and their associated maintenance crews, administration, and offices. The facility consists of modules including Hangar Bay Module, Tool & Parts Support Module, Ready Room Module, RPA Technical Support Module, RPA Administration Support Module, Squadron Conference Module, Toilet/Shower/Locker Module, Aircraft Maintenance Support Module, and Building Support Module.</p> <p>The facility consists of a concrete foundation and floor slab with a steel framed structure varying in height to accommodate single-story personnel functions, shops, and high-bay hangars. Roof structures are low-sloped with metal roof deck, insulation, and modified bitumen or prefinished standing seam metal roofing. Exterior cladding is a combination of mineral wool with high performance stucco finish and prefinished metal panels with alternating colors and joint patterns for accent.</p> <p>CURRENT SITUATION: Łask Air Base is one of the premier air bases in the Polish Air Force. The base is currently home to a squadron of F-16s and there are no Remotely Piloted Aircraft (RPA) operations at the base. Over the next several years the base is expanding its air power mission with the addition of F-35s. The beddown of the F-35s will occur in the southeastern portion of the airfield south of Runway 10/28. This development will consist of aircraft parking, connecting taxiways, hangars, and additional supporting facilities for F-35 operations. The proposed RPA development is in the southwestern corner of the installation just west of the F-35 development area. The RPA development will follow the requirements established in USAFE-AFAFRICA Instruction 32-1007 Airfield and Heliport Planning and Design and NATO Bi-SC Directive 085-005 NATO Criteria and Standards for Airfields.</p>			

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<p>Lask Air Base does not currently have any facilities to house or maintain Remotely Piloted Aircraft. Aircraft-specific requirements call for each aircraft to be designated a fully enclosed space during inclement weather. Existing storage and maintenance space is not currently available to meet these requirements.</p>			
<p>IMPACT IF NOT PROVIDED: If this project is not provided, the required number of mission capable RPAs required to meet training needs will not be available to provide sufficiently trained pilots to support the warfighters' missions. As a result, vital assets will be left in storage caskets and training and operational missions will be limited or delayed. The RPA mission at Lask AB cannot function without this project.</p>			
<p>ADDITIONAL: This project meets the scope/criteria specified in Air Force Manual 32-1084, Facility Requirements. All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New Construction is the only viable option to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. However, all tenants on this installation are benefited by this project. No portion of this facility is intended for Republic of Poland personnel exclusive or primary use. This project has been coordinated with the installation physical security plan, and all physical security measures are included. All required antiterrorism protection measures are included. Alternative methods of meeting this requirement have been explored during project development. This project is the only feasible option to meet the requirement. The facility will be available for use by other components. A parametric cost estimate based upon project engineering design was used to develop this budget estimate.</p>			
<p>STANDARD DESIGN: This design shall conform to criteria established in the Air Force Corporate Facilities Standards (AFCFS), the Installation Facilities Standards (IFS) and shall follow the Air Force RPA General Maintenance Hangar Facility Standard Design dated 01 November 2018 in coordination with the Host Nation.</p>			
<p>ECONOMIC ANALYSIS (EA) STATEMENT / OŚWIADCZENIE Z ANALIZY EKONOMICZNEJ: Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02 the Energy Policy Act 2005, Executive Orders 13123 and 13423, 10 United States Code (USC) 2802 (c), and other applicable laws and Executive orders. This includes the preparation of a life-cycle cost analysis (LCCA) for energy consuming systems, renewable energy generating systems, or when life cycle cost effective (LCCE) is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable.</p>			
<p>NATO STATEMENT: NATO eligibility for this project has not yet been established.</p>			
<p>FYDP STATEMENT: NA</p>			
<p>MASTER PLAN STATEMENT: Facility is sited in accordance with current Lask Air Base plans, the USAFE-AFAFRICA PPI Vision Plan, and the EDCA and is within a compatible land use area.</p>			
<p>JOINT USE CERTIFICATION: These facilities can be used by other components on an "as available" basis; however, the scope of the project is based on United States Air Force</p>			

1. COMPONENT Dowództwo AIR FORCE	CY2022 POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA Dane dotyczące projektu infrastruktury zapewnianej przez Polskę	2. DATE data FEBRUARY 2024	REPORT CONTROL SYMBOL PPI																		
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requirements. NATO SECURITY INVESTMENT: As the Host Nation, Poland should submit to the NATO Office of Resources (NOR) the Prefinancing Statement (PFS) for the project to be included in Capability Package CP3A0019. This project is partially eligible for funding within an established NATO infrastructure category for common funding and has the potential for reimbursement (partially or whole) from NATO Security Investment Program (NSIP) funds. CONVERSIONS: <table data-bbox="110 697 1472 806"> <tr> <td>PRIMARY FACILITIES</td> <td></td> </tr> <tr> <td>RPA MAINTENANCE HANGAR (211-111)</td> <td>11,056 SM to 119,006</td> </tr> <tr> <td>ACCESS APRON (113-321)</td> <td>5,463 SM to 6,534</td> </tr> <tr> <td>SHOULDERS, PAVED (116-642)</td> <td>1,218 SM to 1,457</td> </tr> </table>				PRIMARY FACILITIES		RPA MAINTENANCE HANGAR (211-111)	11,056 SM to 119,006	ACCESS APRON (113-321)	5,463 SM to 6,534	SHOULDERS, PAVED (116-642)	1,218 SM to 1,457										
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12. SUPPLEMENTAL DATA PLANNING AND DESIGN DATA (ESTIMATE) (1) Status: <table data-bbox="233 1285 1472 1629"> <tr> <td>(a) Type of Design</td> <td>Design-Bid-Build</td> </tr> <tr> <td>(b) Date Design Started</td> <td>01 AUG 23</td> </tr> <tr> <td>(c) Parametric Cost Estimates Used to develop costs</td> <td>YES</td> </tr> <tr> <td>(d) Percent Complete as of 01 JAN 2023</td> <td>0%</td> </tr> <tr> <td>(e) Date 35% Designed</td> <td>01 DEC 22</td> </tr> <tr> <td>(f) Date Design Complete</td> <td>01 JUN 24</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td>YES</td> </tr> </table> (2) Basis: <table data-bbox="233 1780 1472 1839"> <tr> <td>(a) Standard or Definitive Design</td> <td>NO</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used</td> <td>N/A</td> </tr> </table>				(a) Type of Design	Design-Bid-Build	(b) Date Design Started	01 AUG 23	(c) Parametric Cost Estimates Used to develop costs	YES	(d) Percent Complete as of 01 JAN 2023	0%	(e) Date 35% Designed	01 DEC 22	(f) Date Design Complete	01 JUN 24	(g) Energy Study/Life-Cycle analysis was/will be performed	YES	(a) Standard or Definitive Design	NO	(b) Where Design Was Most Recently Used	N/A
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<p>(3) Total Cost (c) = (a) + (b) or (d) + (e) (\$000)</p> <p>(a) Production of Plans and Specifications (6%) (4,140)</p> <p>(b) All Other Design Costs (3%) (2,070)</p> <p>(c) Total 6,210</p> <p>(d) Contract (7.5%) (5,175)</p> <p>(e) In-house(1.5%) (1,035)</p> <p>(4) Construction Contract Award 24 OCT</p> <p>(5) Construction Start 24 DEC</p> <p>(6) Construction Completion 27 OCT</p> <p>b. Equipment associated:</p>															
<table border="0"> <thead> <tr> <th data-bbox="207 1117 526 1138">EQUIPMENT NOMENCLATURE</th> <th data-bbox="701 1087 876 1167">FISCAL YEAR APPROPRIATED OR REQUESTED</th> <th data-bbox="938 1117 1013 1176">COST (\$000)</th> </tr> </thead> <tbody> <tr> <td data-bbox="207 1197 639 1218">FURNITURE FIXTURES & EQUIPMENT</td> <td data-bbox="750 1197 808 1218">2028</td> <td data-bbox="938 1197 1013 1218">3,224</td> </tr> <tr> <td data-bbox="207 1234 539 1255">COMMUNICATION EQUIPMENT</td> <td data-bbox="750 1243 808 1264">2028</td> <td data-bbox="980 1243 1013 1264">14</td> </tr> <tr> <td data-bbox="207 1281 282 1302">OTHER</td> <td data-bbox="756 1289 802 1310">N/A</td> <td data-bbox="964 1289 1013 1310">000</td> </tr> </tbody> </table>				EQUIPMENT NOMENCLATURE	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)	FURNITURE FIXTURES & EQUIPMENT	2028	3,224	COMMUNICATION EQUIPMENT	2028	14	OTHER	N/A	000
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OTHER	N/A	000													

1. COMPONENT Dowództwo AIR FORCE	CY2022 POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA Dane dotyczące projektu infrastruktury zapewnianej przez Polskę	2. DATE data FEBRUARY 2024	REPORT CONTROL SYMBOL PPI	
3. INSTALLATION AND LOCATION Jednostka wojskowa oraz lokalizacja Lask Air Base, Poland (LAS)		4. PROJECT TITLE Nazwa projektu RPA Parking Apron		
5. PROGRAM ELEMENT Element programu XXXXXX	6. CATEGORY CODE Kategoria Projektu 113-321	7. PROJECT NUMBER Numer Projektu LAS-1101-PL	8. PROJECT COST (\$000) Całkowity koszt projektu 18,000	
9. COST ESTIMATES Kosztorysy				
ITEM Pozycja	U/M Miara	QUANTITY Ilość	UNIT COST Koszt (\$)	COST Koszt (\$000)
PRIMARY FACILITIES				
RPA PARKING APRON (113-321)	SM	18,419	452.18	13,159 (8,329)
RPA SHOULDER (116-642)	SM	1,130	243.79	(275)
ARM/DISARM PAD (116-661)	SM	8,251	428.87	(3,539)
ARM/DISARM SHOULDER (116-642)	SM	2,106	243.79	(513)
ATFP MEASURES (2%)	SM	2.0%	-	(235)
CYBERSECURITY SYSTEM ALLOWANCE (2.5%)	LS	2.5%	-	(294)
SUPPORTING FACILITIES				
SITE PREPARATION/DEMOLITION	LS			2,564 (2,564)
SUBTOTAL				
CONTINGENCY (5.0%)				786
TOTAL CONTRACT COST				
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)				16,510 1,205
TOTAL REQUEST				
TOTAL REQUEST (ROUNDED)				
ASSOCIATED EQUIPMENT				000
10. DESCRIPTION OF PROPOSED CONSTRUCTION				
DESCRIPTION: Construct an aircraft parking apron, weapon loading apron, and paved shoulders required to accommodate Remotely Piloted Aircraft at Lask Air Base. Supporting facilities include weapon safety berm, all utilities, subgrade work, drainage, airfield lighting, pavement markings and associated facilities and other necessary airfield support. Pavement for the parking apron and weapons loading apron consists of a rigid concrete layer, drainage layer, sub-base separation layer, compacted subgrade, earthwork, and grading. The pavement for the paved shoulders consists of flexible asphalt pavement, aggregate base, drainage layer, sub-base separation layer, compacted subgrade, earthwork, and grading. All work carried out shall include the requirements as identified in the AF813-O Request for Overseas Environmental Impact Analysis and as stated in the Certificate of Compliance for Critical Planning Actions. This project shall be designed and constructed in accordance with Department of the Air Force Manual 32-1084 Facility Requirements, Unified Facility Criteria 3-260-01 Airfield & Heliport Planning & Design, Unified Facility Criteria 3-260-02 Pavement Design for Airfields, United States Air Force in Europe & Air Force in Africa 32-1007 Airfield and Heliport Planning and Design, and NATO Bi-SC Directive 085-005 NATO Criteria and Standards for Airfields, as applicable. This project will incorporate all required sustainable principles, and these shall be integrated into the project design, development, and construction in accordance with Executive Orders, Unified Facility Criteria and other applicable laws. All work carried out must comply with Department of Defense Anti-Terrorism Force Protection requirements and all other relevant Unified Facilities Criteria, Air Force Instructions, National Fire Protection Association regulations, Polish Building Regulations, and Lask Air Base Standards. All work associated with this project shall comply with United States Air Force and Host Nation regulations and agreements. All known alternatives were considered during the development of this project.				

1. COMPONENT Dowództwo AIR FORCE	CY2022 POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA Dane dotyczące projektu infrastruktury zapewnianej przez Polskę	2. DATE data FEBRUARY 2024	REPORT CONTROL SYMBOL PPI
3. INSTALLATION AND LOCATION Jednostka wojskowa oraz lokalizacja Lask Air Base, Poland (LAS)		4. PROJECT TITLE Nazwa projektu RPA Parking Apron	
5. PROGRAM ELEMENT Element programu XXXXXX	6. CATEGORY CODE Kategoria Projektu 113-321	7. PROJECT NUMBER Numer Projektu LAS-1101-PL	8. PROJECT COST (\$000) Całkowity koszt projektu 18,000
Air Conditioning / Klimatyzacja: N/A			
<p>11. REQUIREMENT 26,670SM Adequate: 0SM Substandard: 0SM</p> <p>PROJECT: Construct an aircraft parking apron and weapon loading apron capable of supporting 12 MQ-9 aircraft. (New Mission)</p> <p>REQUIREMENT: This project is required by USAFE-AFAFRICA missions to support the Polish Provided Infrastructure (PPI) initiative. PPI represents a key tool for the implementation of the Enhanced Defense Cooperation Agreement (EDCA) between the United States of America and the Republic of Poland signed in Warsaw on August 15, 2020 and entered into force November 13, 2020. It serves as a critical guide to define both U.S. and Polish defense mission, facility, and infrastructure needs. This project is required to provide adequate aircraft parking and weapons loading areas for 12 MQ-9 aircraft in the RPA operational area of Lask Air Base (LAB) as part of PPI. The RPA mission includes AT/FP upgrades, communications infrastructure upgrades, connecting taxiways, RPA Hangars, RPA Cockpit Pads, Ground Communications and Data Support Area, RPA Squadron Operations Facility, Medical/Dental Facility, Dormitory, Dining Facility, Armory, Motorpool Area, Munitions Areas, and Contingency Beddown Area. The parking apron will increase aircraft maintenance operations capabilities and timeliness of sortie generation due to the proximity of the apron to the RPA maintenance hangar. The parking apron will include all parking positions, taxi lanes, apron exits and entrances, paved shoulders, and all necessary apron lighting.</p> <p>CURRENT SITUATION: Lask Air Base is one of the premier air bases in the Polish Air Force. The base is currently home to a squadron of F-16s and there are no Remotely Piloted Aircraft (RPA) operations at the base. The operational aircraft are parked in Hardened Aircraft Shelters (HAS) located on the northwest corner of the airfield. The airfield development is located north of the runway centerline and consists of a parallel taxiway, ladder taxiways, and a series of taxiways that provided access to the aircraft shelters. Along the parallel taxiway there are three aircraft parking aprons, and there are arm/de-arm pads located along the ladder taxiways that connect to the runway thresholds. Over the next several years the base is expanding its air power mission with the addition of F-35s. The beddown of the F-35s will occur in the southeastern portion of the airfield south of Runway 10/28 and will consist of aircraft parking, connecting taxiways, hangars, and additional supporting facilities for F-35 operations. That development will only provide the necessary airfield pavement to support F-35 operations. The proposed RPA development is in the southwestern corner of the installation just west of the proposed F-35 development area. The RPA mission development will include an aircraft maintenance hangar, squadron operations building, aircraft parking apron, weapons loading apron, connecting taxiways, ground control station area, ground data terminal area, and munitions holding area. The aircraft parking apron will be sited adjacent to the RPA maintenance hangar and will support parking positions for 12 MQ-9 aircraft. The aircraft parking positions and taxilanes on the parking apron will provide adequate wingtip clearance to allow all aircraft to taxi under their own power. The apron will provide aircraft pavement to support aircraft maintenance, servicing, fueling, and pre-/post-flight operational checks. An additional aircraft apron will be constructed southeast of the RPA parking apron to support the loading and unloading of munitions on the RPAs. This weapon loading apron will be capable of supporting simultaneous munitions operations for 4 MQ-9s. An earthen weapons safety berm will be constructed in the direction of fire to provide adequate munitions safety to support the forward firing munitions loaded on the RPAs. All airfield pavements will be constructed to meet the aircraft parking and taxiing requirements established in USAFE-AFAFRICA Instruction 32-1007 Airfield and Heliport Planning and Design and NATO Bi-SC Directive 085-005 NATO Criteria and Standards for Airfields.</p>			

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<p>IMPACT IF NOT PROVIDED: If this project is not provided there will not be adequate airfield pavement area at Lask Air Base to support RPA operations. Without an aircraft parking apron and weapons loading apron the RPAs will be unable to safely and effectively complete daily training missions and real-world operational missions. The RPA mission at Lask AB cannot function without this project.</p> <p>ADDITIONAL: This project meets the scope/criteria specified in Air Force Manual 32-1084, Facility Requirements Unified Facility Criteria 3-260-01 Airfield & Heliport Planning & Design, Unified Facility Criteria 3-260-02 Pavement Design for Airfields, United States Air Force in Europe & Air Force in Africa 32-1007 Airfield and Heliport Planning and Design, and NATO Bi-SC Directive 085-005 NATO Criteria and Standards for Airfields, as applicable.</p> <p>STANDARD DESIGN: This design shall conform to criteria established in the Air Force Corporate Facilities Standards (AFCFS), the Installation Facilities Standards (IFS) but will not employ a standard facility design because there is no Air Force standard facility design for this specific project and there is no applicable standard design from the Host Nation.</p> <p>ECONOMIC ANALYSIS (EA) STATEMENT: Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02 the Energy Policy Act 2005, Executive Orders 13123 and 13423, 10 United States Code (USC) 2802 (c), and other applicable laws and Executive orders. This includes the preparation of a life-cycle cost analysis (LCCA) for energy consuming systems, renewable energy generating systems, or when life cycle cost effective (LCCE) is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable.</p> <p>NATO STATEMENT NATO eligibility for this project has not yet been established.</p> <p>FYDP STATEMENT: NA</p> <p>MASTER PLAN STATEMENT: Facility is sited in accordance with current Lask Air Base plans, the USAFE-AFAFRICA Vision Plan, and the EDCA and is within a compatible land use area.</p> <p>JOINT USE CERTIFICATION: These facilities can be used by other components on an "as available" basis; however, the scope of the project is based on United States Air Force requirements.</p> <p>NATO SECURITY INVESTMENT: As the Host Nation, Poland should submit to the NATO Office of Resources (NOR) the Pre-financing Statement (PFS) for the project to be included in Capability Package CP3A0019. This project is partially eligible for funding within an established NATO infrastructure category for common funding and has the potential for reimbursement (partially or whole) from NATO Security Investment Program (NSIP) funds.</p>			

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CONVERSIONS: PRIMARY FACILITIES			
RPA APRON (113-321) 18,419 SM to 22,029 SY RPA SHOULDERS, PAVED (116-642) 1,130 SM to 1,352 SY WEAPONS LOADKING APRON (113-321) 8,251 SM to 9,868 SY WEAPONS LOADING SHOULDERS, PAVED (116-642) 2,106 SM to 2,519 SY			
12. SUPPLEMENTAL DATA			
PLANNING AND DESIGN DATA (ESTIMATE)			
(1) Status:			
(a) Type of Design			Design-Bid-Build
(b) Date Design Started			01 AUG 23
(c) Parametric Cost Estimates Used to develop costs			YES
(d) Percent Complete as of 01 JAN 2023			0%
(e) Date 35% Designed			01 DEC 22
(f) Date Design Complete			01 MAY 24
(g) Energy Study/Life-Cycle analysis was/will be performed			YES
(2) Basis:			
(a) Standard or Definitive Design			NO
(b) Where Design Was Most Recently Used			N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e)			(\$000)
(a) Production of Plans and Specifications(6%)			(1,080)
(b) All Other Design Costs (3%)			(540)
(c) Total			1,620
(d) Contract(7.5%)			(1,350)
(e) In-house(1.5%)			(270)
(4) Construction Contract Award			24 OCT
(5) Construction Start			25 FEB
(6) Construction Completion			27 OCT

1. COMPONENT Dowództwo AIR FORCE	CY2022 POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA Dane dotyczące projektu infrastruktury zapewnianej przez Polskę	2. DATE data FEBRUARY 2024	REPORT CONTROL SYMBOL PPI
3. INSTALLATION AND LOCATION Jednostka wojskowa oraz lokalizacja Lask Air Base, Poland (LAS)		4. PROJECT TITLE Nazwa projektu RPA Parking Apron	
5. PROGRAM ELEMENT Element programu XXXXXX	6. CATEGORY CODE Kategoria Projektu 113-321	7. PROJECT NUMBER Numer Projektu LAS-1101-PL	8. PROJECT COST (\$000) Całkowity koszt projektu 18,000

b. Equipment associated with this project:

EQUIPMENT NOMENCLATURE	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE FIXTURES & EQUIPMENT	N/A	N/A
COMMUNICATION EQUIPMENT	N/A	N/A
OTHER	N/A	N/A

1. COMPONENT Dowództwo AIR FORCE	CY2022 POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA Dane dotyczące projektu infrastruktury zapewnianej przcz Polskę	2. DATE data FEBRUARY 2024	REPORT CONTROL SYMBOL PPI	
3. INSTALLATION AND LOCATION Jednostka wojskowa oraz lokalizacja Lask Air Base, Poland (LAS)		4. PROJECT TITLE Nazwa projektu Connecting Taxiways for RPA Mission		
5. PROGRAM ELEMENT Element programu XXXXXX	6. CATEGORY CODE Kategoria Projektu 112-211	7. PROJECT NUMBER Numer Projektu LAS-1103-PL	8. PROJECT COST (\$000) Całkowity koszt projektu 18,000	
9. COST ESTIMATES Kosztorysy				
ITEM Pozycja	U/M Miara	QUANTITY Ilość	UNIT COST Koszt (\$)	COST Koszt (\$000)
PRIMARY FACILITIES				
TAXIWAY (112-211)	SM	22,760	401.20	15,783 (9,131)
SHOULDERS, PAVED (116-642)	SM	11,480	228.89	(2,628)
TAXIWAY LIGHTING (136-667)	M	6,030	554.53	(3,344)
ATFP MEASURES (2%)	LS	-	-	(302)
CYBERSECURITY SYSTEM ALLOWANCE	LS	-	-	(378)
SUPPORTING FACILITIES				
SITE PREPARATION/DEMOLITION	LS	-	-	(416)
SUBTOTAL				
CONTINGENCY (5.0%)				16,199 810
TOTAL CONTRACT COST				
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)				17,009 1,242
TOTAL REQUEST				
TOTAL REQUEST (ROUNDED)				
ASSOCIATED EQUIPMENT				18,250 18,000 (000)
10. DESCRIPTION OF PROPOSED CONSTRUCTION				
DESCRIPTION: Construct aircraft taxiways and paved shoulders required to accommodate Remotely Piloted Aircraft (RPA) at Lask Air Base. Supporting facilities include all subgrade work, drainage, airfield lighting, pavement markings and associated facilities and other necessary airfield support. Pavement for the taxiways consists of a rigid concrete layer, drainage layer, sub-base separation layer, compacted subgrade, earthwork, and grading. The pavement for the taxiway shoulders consists of flexible asphalt pavement, aggregate base, drainage layer, sub-base separation layer, compacted subgrade, earthwork, and grading. All work carried out shall include the requirements as identified in the AF813-0 Request for Overseas Environmental Impact Analysis and as stated in the Certificate of Compliance for Critical Planning Actions. This project shall be designed and constructed in accordance with Department of the Air Force Manual 32-1084 Facility Requirements, Unified Facility Criteria 3-260-01 Airfield & Heliport Planning & Design, Unified Facility Criteria 3-260-02 Pavement Design for Airfields, United States Air Force in Europe & Air Force in Africa 32-1007 Airfield and Heliport Planning and Design, and NATO Bi-SC Directive 085-005 NATO Criteria and Standards for Airfields, as applicable. This project will incorporate all required sustainable principles, and these shall be integrated into the project design, development, and construction in accordance with Executive Orders, Unified Facility Criteria, and other applicable laws. All work carried out must comply with Department of Defense Anti-Terrorism Force Protection requirements and all other relevant Unified Facilities Criteria, Air Force Instructions, National Fire Protection Association regulations, Polish Building Regulations, and Lask Air Base Standards. All work associated with this project shall comply with United States Air Force and Host Nation regulations and agreements. All known alternatives were considered during the development of this project.				

1. COMPONENT Dowództwo AIR FORCE	CY2022 POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA Dane dotyczące projektu infrastruktury zapewnianej przcz Polskę	2. DATE data FEBRUARY 2024	REPORT CONTROL SYMBOL PPI
3. INSTALLATION AND LOCATION Jednostka wojskowa oraz lokalizacja Lask Air Base, Poland (LAS)		4. PROJECT TITLE Nazwa projektu Connecting Taxiways for RPA Mission	
5. PROGRAM ELEMENT Element programu XXXXXX	6. CATEGORY CODE Kategoria Projektu 112-211	7. PROJECT NUMBER Numer Projektu LAS-1103-PL	8. PROJECT COST (\$000) Całkowity koszt projektu 18,000
Air Conditioning / Klimatyzacja: N/A nie dotyczy			
11. REQUIREMENT 70,184SM Adequate: OSM Substandard: OSM			
PROJECT: Construct aircraft taxiways to connect the Remotely Piloted Aircraft operational area to the existing taxiway network and runway. (New Mission)			
REQUIREMENT: This project is required by USAFE-AFAFRICA missions to support the Polish Provided Infrastructure (PPI) initiative. PPI represents a key tool for the implementation of the Enhanced Defense Cooperation Agreement (EDCA) between the United States of America and the Republic of Poland signed in Warsaw on August 15, 2020 and entered into force November 13, 2020. It serves as a critical guide to define both U.S. and Polish defense mission, facility, and infrastructure needs. This project is required to provide adequate ground movement of military aircraft between the Remotely Piloted Aircraft operational area and runway at Lask Air Base (LAB) as part of PPI. The RPA mission as part of PPI also includes AT/FP upgrades, communications infrastructure upgrades, RPA Hangars, RPA Cockpit Pads, RPA parking apron, Ground Communications and Data Support Area, RPA Squadron Operations Facility, Medical/Dental Facility, Dormitory, Dining Facility, Armory, Motorpool Area, Munitions Areas, and Contingency Beddown Area. The connecting taxiways will serve to support the primary location for the RPA mission by USAFE-AFAFRICA in Poland and enduring rotational force missions. The taxiways will complete the parallel taxiway/emergency runway on the south side of the airfield, and provide connectivity between the RPA Hangars and parking area to the runway and existing taxiway network at Lask Air Base. The taxiways will meet all wingtip clearances and provide all necessary pavement, shoulders, and utilities.			
CURRENT SITUATION: Lask Air Base is one of the premier air bases in the Polish Air Force. The base is currently home to a squadron of F-16s and there are currently no Remotely Piloted Aircraft (RPA) operations at the base. The operational aircraft are parked in Hardened Aircraft Shelters (HAS) located on the northwest corner of the airfield. The airfield development is located north of the runway centerline and consists of a parallel taxiway, ladder taxiways, and a series of taxiways that provided access to the aircraft shelters. Along the parallel taxiway there are three aircraft parking aprons, and there are arm/de-arm pads located along the ladder taxiways that connect to the runway thresholds. Over the next several years the base is expanding its air power mission with the addition of			
F-35s. The beddown of the F-35s will occur in the southeastern portion of the airfield south of Runway 10/28 and will consist of aircraft parking, connecting taxiways, hangars, and additional supporting facilities for F-35 operations. That development only provides the necessary airfield pavement to support F-35 operations. A complete parallel taxiway south of Runway 10/28 is not included with the F-35 airfield pavements but only a small segment of a parallel taxiway is included. The proposed RPA mission development is in the southwestern corner of the installation just west of the F-35 development area. The RPA development will also include an aircraft maintenance hangar, squadron operations building, aircraft parking apron, weapons loading apron, connecting taxiways, ground control station area, ground data terminal area, and munitions holding area. The connecting taxiways included in the RPA development will continue the remaining segments to create a complete parallel taxiway on the southside of the airfield. These taxiways will also include all necessary connections from the parallel taxiway to the aircraft parking apron, aircraft maintenance hangar, and weapons loading apron. The completed parallel taxiway will be sited to function as an emergency runway following the requirements established in USAFE-AFAFRICA Instruction 32-1007 Airfield and Heliport Planning and Design and NATO Bi-SC Directive 085-005 NATO Criteria and Standards for Airfields.			

1. COMPONENT Dowództwo AIR FORCE	CY2022 POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA Dane dotyczące projektu infrastruktury zapewnianej przcz Polskę	2. DATE data FEBRUARY 2024	REPORT CONTROL SYMBOL PPI						
3. INSTALLATION AND LOCATION Jednostka wojskowa oraz lokalizacja Lask Air Base, Poland (LAS)		4. PROJECT TITLE Nazwa projektu Connecting Taxiways for RPA Mission							
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<p>IMPACT IF NOT PROVIDED: If this project is not provided the RPA will not have a viable connection between the RPA hangar, aircraft parking apron, and runway. Without a viable connection to the runway the RPAs will be unable to safely and effectively complete daily training missions and real-world operational missions. In addition, there will be no fully functional emergency runway. The RPA mission at Lask AB cannot function without this project.</p> <p>ADDITIONAL: This project meets the scope/criteria specified in Air Force Manual 32-1084, Facility Requirements Unified Facility Criteria 3-260-01 Airfield & Heliport Planning & Design, Unified Facility Criteria 3-260-02 Pavement Design for Airfields, United States Air Force in Europe & Air Force in Africa 32-1007 Airfield and Heliport Planning and Design, and NATO Bi-SC Directive 085-005 NATO Criteria and Standards for Airfields, as applicable.</p> <p>STANDARD DESIGN: This design shall conform to criteria established in the Air Force Corporate Facilities Standards (AFCFS), the Installation Facilities Standards (IFS) but will not employ a standard facility design because there is no Air Force standard facility design for this specific project and there is no applicable standard design from the Host Nation.</p> <p>ECONOMIC ANALYSIS (EA) STATEMENT: Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02 the Energy Policy Act 2005, Executive Orders 13123 and 13423, 10 United States Code (USC) 2802 (c), and other applicable laws and Executive orders. This includes the preparation of a life-cycle cost analysis (LCCA) for energy consuming systems, renewable energy generating systems, or when life cycle cost effective (LCCE) is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable.</p> <p>NATO STATEMENT: NATO eligibility for this project has not yet been established.</p> <p>FYDP STATEMENT: NA</p> <p>MASTER PLAN STATEMENT: Facility is sited in accordance with current Lask Air Base plans, the USAFE-AFAFRICA PPI Vision Plan, and the EDCA and is within a compatible land use area.</p> <p>JOINT USE CERTIFICATION: These facilities can be used by other components on an "as available" basis; however, the scope of the project is based on United States Air Force requirements.</p> <p>NATO SECURITY INVESTMENT: As the Host Nation, Poland should submit to the NATO Office of Resources (NOR) the Prefinancing Statement (PFS) for the project to be included in Capability Package CP3A0019. This project is partially eligible for funding within an established NATO infrastructure category for common funding and has the potential for reimbursement (partially or whole) from NATO Security Investment Program (NSIP) funds.</p> <p>CONVERSIONS:</p> <p>PRIMARY FACILITIES</p> <table data-bbox="120 1759 1438 1839"> <tr> <td>TAXIWAY (112-211)</td> <td>70,184 SM to 83,939 SY</td> </tr> <tr> <td>SHOULDERS, PAVED (116-642)</td> <td>41,107 SM to 49,163 SY</td> </tr> <tr> <td>TAXIWAY LIGHTING (136-667)</td> <td>19,782 M to 64,901 LF</td> </tr> </table>				TAXIWAY (112-211)	70,184 SM to 83,939 SY	SHOULDERS, PAVED (116-642)	41,107 SM to 49,163 SY	TAXIWAY LIGHTING (136-667)	19,782 M to 64,901 LF
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12. SUPPLEMENTAL DATA PLANNING AND DESIGN DATA (ESTIMATE) (1) Status: <table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">(a) Type of Design</td> <td style="text-align: right;">Design-Bid-Build</td> </tr> <tr> <td>(b) Date Design Started</td> <td style="text-align: right;">01 AUG 22</td> </tr> <tr> <td>(c) Parametric Cost Estimates Used to develop costs</td> <td style="text-align: right;">YES</td> </tr> <tr> <td>(d) Percent Complete as of 01 JAN 2023</td> <td style="text-align: right;">0%</td> </tr> <tr> <td>(e) Date 35% Designed</td> <td style="text-align: right;">01 DEC 22</td> </tr> <tr> <td>(f) Date Design Complete</td> <td style="text-align: right;">01 MAR 23</td> </tr> <tr> <td>(g) Energy Study/Life-Cycle analysis was/will be performed</td> <td style="text-align: right;">YES</td> </tr> </table> (2) Basis: <table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">(a) Standard or Definitive Design</td> <td style="text-align: right;">NO</td> </tr> <tr> <td>(b) Where Design Was Most Recently Used</td> <td style="text-align: right;">N/A</td> </tr> </table> (3) Total Cost (c) = (a) + (b) or (d) + (e) (\$000) <table border="0" style="width: 100%;"> <tr> <td style="width: 80%;">(a) Production of Plans and Specifications (6%)</td> <td style="text-align: right;">(1,080)</td> </tr> <tr> <td>(b) All Other Design Costs (3%)</td> <td style="text-align: right;">(540)</td> </tr> <tr> <td>(c) Total</td> <td style="text-align: right;">1,620</td> </tr> <tr> <td>(d) Contract (7.5%)</td> <td style="text-align: right;">(1,350)</td> </tr> <tr> <td>(e) In-house (1.5%)</td> <td style="text-align: right;">(270)</td> </tr> </table> (4) Construction Contract Award 24 AUG (5) Construction Start 25 FEB (6) Construction Completion 27 DEC				(a) Type of Design	Design-Bid-Build	(b) Date Design Started	01 AUG 22	(c) Parametric Cost Estimates Used to develop costs	YES	(d) Percent Complete as of 01 JAN 2023	0%	(e) Date 35% Designed	01 DEC 22	(f) Date Design Complete	01 MAR 23	(g) Energy Study/Life-Cycle analysis was/will be performed	YES	(a) Standard or Definitive Design	NO	(b) Where Design Was Most Recently Used	N/A	(a) Production of Plans and Specifications (6%)	(1,080)	(b) All Other Design Costs (3%)	(540)	(c) Total	1,620	(d) Contract (7.5%)	(1,350)	(e) In-house (1.5%)	(270)
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3. INSTALLATION AND LOCATION Jednostka wojskowa oraz lokalizacja Lask Air Base, Poland (LAS)		4. PROJECT TITLE Nazwa projektu Connecting Taxiways for RPA Mission	
5. PROGRAM ELEMENT Element programu XXXXXX	6. CATEGORY CODE Kategoria Projektu 112-211	7. PROJECT NUMBER Numer Projektu LAS-1103-PL	8. PROJECT COST (\$000) Całkowity koszt projektu 18,000
b. Equipment associated with this project:			
EQUIPMENT NOMENCLATURE FURNITURE FIXTURES & EQUIPMENT COMMUNICATION EQUIPMENT OTHER	FISCAL YEAR APPROPRIATED OR REQUESTED N/A N/A N/A	COST (\$000) 000 000 000	

1. COMPONENT Dowództwo AIR FORCE	CY2022 POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA Dane dotyczące projektu infrastruktury zapewnianej przez Polskę		2. DATE data FEBRUARY 2024	REPORT CONTROL SYMBOL PPI
3. INSTALLATION AND LOCATION Jednostka wojskowa oraz lokalizacja Wroclaw Airport, Poland (WRO)		4. PROJECT TITLE Nazwa projektu AT/FP Upgrades for APOD Mission		
5. PROGRAM ELEMENT XXXXXX	6. CATEGORY CODE Kategoria Projektu 730-839	7. PROJECT NUMBER Numer Projektu WRO-1108-PL	8. PROJECT COST (\$000) Całkowity koszt projektu 46,000	
9. COST ESTIMATES Kosztorysy				
ITEM Pozycja	U/M Miara	QUANTITY Ilość	UNIT COST Koszt (\$)	COST Koszt (\$000)
PRIMARY FACILITIES				
NEW VISITOR CENTER - COMMERCIAL ENTRY (730-832)	SM	186	9,083.02	6,865 (1,690)
GATE HOUSE - EXISTING MAIN ENTRY (730-839)	SM	44	17,350.24	(763)
NEW COMMERCIAL VEHICLE SEARCH CANOPY/ GATEHOUSE (730-839)	SM	317	5,759.40	(1,826)
ID CHECK CANOPY - EXISTING MAIN ENTRY (145-921)	SM	300	2,058.75	(618)
OVERWATCH - EXISTING MAIN ENTRY (872-845)	EA	1	794,131.38	(794)
OVERWATCH - COMMERCIAL ENTRY (872-845)	EA	1	794,131.38	(794)
ATFP MEASURE (2%)	LS	2.0%		(130)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(250)
SUPPORTING FACILITIES				
EXISTING MAIN ENTRY				34,166
SITE PREPARATION AND DEMOLITION				(886)
PAVEMENT				(69)
SITE IMPROVEMENTS				(2,305)
UTILITIES				(238)
COMMERCIAL ENTRY				
SITE PREPARATION AND DEMOLITION				(14,273)
PAVEMENT				(7,708)
SITE IMPROVEMENTS				(8,506)
UTILITIES				(182)
SUBTOTAL				
CONTINGENCY (5.0%)				41,031 2,052
TOTAL CONTRACT COST				
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)				43,082 3,145
TOTAL REQUEST				
TOTAL REQUEST (ROUNDED)				46,227
OTHER RELATED EQUIPMENT				46,000 700
10. DESCRIPTION OF PROPOSED CONSTRUCTION				
DESCRIPTION: Construct antiterrorism and force protection (ATFP) upgrades at Wroclaw Airport to support the beddown of an Aerial Port of Debarkation (APOD) mission. ATFP upgrades include improvements to the existing Entry Control Facilities at the base's Main Gate and construction of a new Entry Control Facility for commercial vehicle inspections along the East boundary of the Airport to support operational movements. New facilities include a Visitor Control Center, Gatehouse, ID Check Canopy (over Guard Booth), Cargo and Vehicle Inspection System facility, and Overwatch. Supporting facilities include site work; backup generator; landscaping, grading and paving; Active Vehicle Barriers; perimeter and ornamental fencing with passive vehicle barriers; and all required utility systems: water, power, sewer, stormwater				

1. COMPONENT Dowództwo AIR FORCE	CY2022 POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA Dane dotyczące projektu infrastruktury zapewnianej przez Polskę	2. DATE data FEBRUARY 2024	REPORT CONTROL SYMBOL PPI
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drainage, central heating, fire alarm systems, exterior security lighting and cameras, and information systems connectivity. Air conditioning will be provided by self-contained, exterior-mounted control units. Entry control point primary and supporting facilities will be designed in accordance with Unified Facilities Criteria 4-022-01, "Entry Control Facilities / Access Control Points" and follow Access Control Points Standard Design developed by United State Army Corps of Engineers, Omaha District in conjunction with the SDDCTEA Pamphlet 55-17. Project includes supplementing 10.9 km of existing perimeter fence to create a compliant passive vehicle barrier. Local materials and construction techniques shall be used when cost effective. This project is authorized a generator, per AFI 32-1062. The project requires demolition of the existing, abandoned above grade and below grade buildings, concrete pavement, and 4707 SM of existing roadway and pavement. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense Minimum Antiterrorism Standards for Buildings requirements per Unified Facility Criteria 4-010-01.			
11. REQUIREMENT PROJECT: Construct Antiterrorism and Force Protection (ATFP) upgrades at Wroclaw Airport (New Mission) REQUIREMENT: This project is required by USAFE-AFAFRICA missions to support the Polish Provided Infrastructure (PPI) initiative. PPI represents a key tool for the implementation of the Enhanced Defense Cooperation Agreement (EDCA) between the United States of America and the Republic of Poland signed in Warsaw on August 15, 2020 and entered into force November 13, 2020. It serves as a critical guide to define both U.S. and Polish defense mission, facility, and infrastructure needs. This project is required to provide adequate aircraft parking for military cargo aircraft at Wroclaw Airport, Poland (WRO) and the APOD - Aerial Port of Debarkation mission for personnel and cargo as part of PPI and includes AT/FP upgrades, connecting taxiways, an APOD ramp, hot cargo pads and munitions storage and handling areas, a contingency Beddown area, a passenger terminal, aerial port facilities, armories, a dormitory with laundry, a renovated dining facility, a medical and dental clinic space, administrative spaces, post office, fitness center, vehicle maintenance and motor pool area, and a railhead with rail extensions. CURRENT SITUATION: Wroclaw Airport (WRO) is a commercial airport the offers 20 flights per day to main hubs throughout Europe. The 8th Airlift Base of the Polish Air Force is currently located on property east of the main WRO operational area. The Contingency Response Group (CRG) is the operational unit of the Polish Air Force that utilizes the military footprint. This unit is responsible for processing and maneuvering both personnel and cargo to a variety of locations throughout the Area of Responsibility (AOR). The CRG also provides aircraft, airfield security, and air traffic combat controller capabilities. There are two hangars within the Polish Air Force property that are used for cargo staging and marshalling and currently Apron 1 is utilized for the parking of Polish and United States Air Force cargo aircraft. A large parcel of airport property located along the eastern most portion of the Airport adjacent to a public road was identified to accommodate the entry and exit of commercial vehicles supporting the movement of materials associated being transported in conjunction with the APOD mission. A new Entry Control Facility is proposed in this area to process commercial vehicles. The Entry Control Facility will include a Visitor Center, Large Vehicle Inspection Station, and Overwatch in addition to the necessary vehicle control systems and pavement to support large commercial vehicle movements. ATFP upgrades include a new, compliant Entry Control Facility with a Large Vehicle Inspection Station, improvements to the perimeter fence to include passive vehicle barriers, and a new patrol/access road providing access from the east side of the airfield to the new APOD operations area. Improvements are required at the existing Main Gate to provide additional covered ID check lanes, rejection lane, Overwatch, and necessary vehicle control barriers. A secondary commercial access lane will be provided to process commercial vehicles who inadvertently enter the POV only ECF.			

1. COMPONENT Dowództwo AIR FORCE	CY2022 POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA Dane dotyczące projektu infrastruktury zapewnianej przez Polskę	2. DATE data FEBRUARY 2024	REPORT CONTROL SYMBOL PPI
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IMPACT IF NOT PROVIDED: If this project is not provided, U.S. and Polish assets may be compromised due to inadequate anti-terrorism and force protection measures at Wroclaw Airport. The APOD mission at Wroclaw Airport cannot function on an enduring basis without this project.			
ADDITIONAL: This project meets the scope/criteria specified in Air Force Manual 32-1084, Facility Requirements Unified Facility Criteria 3-260-01 Airfield & Heliport Planning & Design, Unified Facility Criteria 3-260-02 Pavement Design for Airfields, United States Air Force in Europe & Air Force in Africa 32-1007 Airfield and Heliport Planning and Design, and NATO Bi-SC Directive 085-005 NATO Criteria and Standards for Airfields, as applicable. 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. A parametric cost estimate based upon project engineering design was used to develop this budget estimate.			
STANDARD DESIGN: The facilities included in the design shall conform to criteria established in the Air Force Corporate Facilities Standards (AFCFS), the Installation Facilities Standards (IFS) and shall follow the Air Force Civil Engineer Center - Facilities Dynamic Prototypes Design: Entry Control Facilities / Installation Access Control Points (ECF/IACP) Standard Design dated 01 March 2015 in coordination with the Host Nation.			
ECONOMIC ANALYSIS (EA) STATEMENT: Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02 the Energy Policy Act 2005, Executive Orders 13123 and 13423, 10 United States Code (USC) 2802 (c), and other applicable laws and Executive orders. This includes the preparation of a life-cycle cost analysis (LCCA) for energy consuming systems, renewable energy generating systems, or when life cycle cost effective (LCCE) is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable.			
NATO STATEMENT: NATO eligibility for this project has not yet been established.			
FYDP STATEMENT: NA			
MASTER PLAN STATEMENT: Facility is sited in accordance with current Wrocław Airport plans and is within a compatible land use area.			
All reasonable alternatives were considered during the development of this project to include status quo, add/alter, and new construction. New Construction is the only viable option to meet this requirement. No portion of this facility is intended for Republic of Poland personnel exclusive or primary use. This project has been coordinated with the installation physical security plan, and all physical security measures are included. All required antiterrorism protection measures are included. Alternative methods of meeting this requirement have been explored during project development. This project is the only feasible option to meet the requirement. The facility will be available for use by other components. A parametric cost estimate based upon project engineering design was used to develop this budget estimate.			
JOINT USE CERTIFICATION: These facilities can be used by other components on an "as available" basis; however, the scope of the project is based on United States Air Force requirements.			

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b. Equipment associated with this project:

EQUIPMENT NOMENCLATURE	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE FIXTURES & EQUIPMENT	2026	700
COMMUNICATION EQUIPMENT	2026	TBD
OTHER	N/A	N/A

1. COMPONENT Dowództwo AIR FORCE	CY2022 POLAND-PROVIDED INFRASTRUCTURE PROJECT DATA Dane dotyczące projektu infrastruktury zapewnianej przez Polskę	2. DATE data FEBRUARY 2024	REPORT CONTROL SYMBOL PPI	
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9. COST ESTIMATES Kosztorysy				
ITEM Pozycja	U/M Miara	QUANTITY Ilość	UNIT COST Koszt (\$)	COST Koszt (\$000)
PRIMARY FACILITIES				
PRIMARY TECHNICAL CONTROL FACILITY/INFO TRANSFER BUILDING (131-111)	SM	47	6,031.11	828 (284)
SECONDARY TECHNICAL CONTROL FACILITY/INFO TRANSFER BUILDING (131-111)	SM	47	6,033.11	(284)
ATFP MEASURES (2%)	LS	-		(11)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS (2.5%)	LS	-		(250)
SUPPORTING FACILITIES				
SITE PREPARATION AND DEMOLITION	LS			7,953 (250)
ENVIRONMENTAL MITIGATION	LS			(663)
SITE IMPROVEMENTS	LS			(191)
COMMUNICATIONS INFRASTRUCTURE (135583)	LS			(6,849)
SUBTOTAL				
CONTINGENCY (5.0%)				439
TOTAL CONTRACT COST				
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)				673
TOTAL REQUEST				
TOTAL REQUEST (ROUNDED)				
OTHER RELATED EQUIPMENT				500
10. DESCRIPTION OF PROPOSED CONSTRUCTION				
DESCRIPTION				
Construct fiber optic cable network and communications facilities. Facilities consist of a 47 m2 (500 SF) Technical Control Facility (TCF) and Information Transfer Building (ITB) with a 10m2 (100 SF) Technical Control Operations room. Primary TCF to be located adjacent to planned Polish construction of building designated "2/59." Secondary TCF/ITB to be adjacent to planned Passenger Terminal. Both TCF/ITB facilities will be steel frame CMU block wall construction with 0.5 m (18 inches) raised floor and 3.7 m (12 ft) high ceilings for equipment room. Air cooling required: 2.5 Tons. Fiber ring will be constructed to provide loop around Aerial Port operational area and include 144 single-mode (OS2) fiber strands. Fiber ring will be 3,000 LM to provide complete circuit around Aerial Port with redundant pathways to the point of presence (POP, or main entry location). About 475 LM of new 48 strand single-mode fiber cable is required to provide service to critical Passenger and Aerial Port Facilities. Approximately 480 LM of new 12 strand single-mode fiber optic cable is required to provide service to future Support Area facilities. A new Entry Control Point will require 670 LM of 6 strand single-mode fiber cable. Additional new fiber optic pathway will be required to support redundant provider connection from off base, up to 1,120 LM on base to connect to the planned network. Supporting facilities include demolition and site work: landscaping and grading, pavements, manholes, information systems and utility				

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connections for power. Facilities will be designed as permanent construction in accordance with the Department of Defense Unified Facilities Criteria 1-200-01. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facility Criteria 4-010-01.			
<p>11. REQUIREMENT</p> <p>PROJECT: Construct base-wide communications infrastructure to support USAFE APOD mission and the PPI Program. (New Mission)</p> <p>REQUIREMENT: This project is required by USAFE-AFAFRICA missions to support the Polish Provided Infrastructure (PPI) initiative. PPI represents a key tool for the implementation of the Enhanced Defense Cooperation Agreement (EDCA) between the United States of America and the Republic of Poland signed in Warsaw on August 15, 2020, and entered into force November 13, 2020. It serves as a critical guide to define both U.S. and Polish defense mission, facility, and infrastructure needs. This project is required to provide secure, reliable communications for Wrocław Airport, Poland (WRO) and the APOD - Aerial Port of Debarkation mission for personnel and cargo as part of PPI and includes AT/FP upgrades, connecting taxiways, an APOD ramp, hot cargo pads and munitions storage and handling areas, a contingency beddown area, a passenger terminal, aerial port facilities, armories, a dormitory with laundry, a renovated dining facility, medical and dental clinic space, administrative spaces, post office, fitness center, vehicle maintenance and motor pool area, and a railhead with rail extensions. This secure communications infrastructure will serve to support the primary location for APOD by USAFE-AFAFRICA in Poland and enduring rotational force missions. Project will provide direct mission support to the APOD operating at WRO and necessary resources to ensure continuous and adequate secure communications connections with operational forces in the Area of Responsibility (AOR) and worldwide. WRO will support up to 120 forward stationed U.S. rotational personnel working the APOD mission with a surge capacity during major exercises and training events. New communications infrastructure for the proposed APOD and support facilities, adequately sized and configured with appropriate security and redundant systems, is required to support the APOD mission. This requirement includes NIPR, SIPR, VOSIP, and JWICS service to the RPA Squadron Operations Facility, and network service as needed to other U.S.-occupied facilities. There is a requirement for dedicated space in the existing communications entry point, the primary commercial POP, as well as a backup POP facility with a physically diverse path to provide true redundancy. A Technical Control Facility (TCF) with an adjacent Tech Control Operations room, and an Information Transfer Building (ITB) is required with physical security required for network equipment. Mechanical and fire protection systems for environmental protection of network equipment is also required. Cabling requirements include a 144 single-mode (OS3) fiber strands between POP facility and TCF/ITB and 24 single-mode (OS2) fiber strands from TCF/ITB to any U.S.-occupied buildings requiring network access. Trenching for concrete ductbanks and inter-building cable ducts is required to provide redundant and physically diverse cable pathways between ITB and buildings requiring 24/7 mission critical operations. Provide Uninterruptible Power Supplies (UPS) at ITBs and critical mission buildings capable of supporting an orderly shutdown or switchover of communication equipment to backup generator power. Contingency and emergency communication mode is required to allow SATCOM or microwave communications to be used for mission critical tasks.</p>			

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<p>CURRENT SITUATION: The capability and communications infrastructure to support the required redundant, mission-critical secure communications for USAFE-AFAFRICA missions does not currently exist at Wrocław Airport. The existing Polish communications infrastructure is undersized and not adequate to meet U.S. needs and requirements. There is no existing network in the proposed site for development of the APOD Ramp and related APOD facilities. The dormitory and other supporting facilities are located on an existing Polish base, with limited communications infrastructure. Currently, U.S. personnel utilize mobile and other temporary means for secure communications when operating at Wrocław Airport, which does not support enduring operational requirements as no infrastructure exists for a physical communications network.</p> <p>IMPACT IF NOT PROVIDED: If this project is not provided the implementation of PPI-required facilities and missions will be slowed at Wrocław Airport and personnel would be required to continue to meet communications needs with sub-standard and less secure communications infrastructure with increased down time, data/information transfer, and response times. This would lead to decreases in personnel and cargo processing, increased timeframes for U.S. and multi-national training exercises, and additional downtime of needed equipment which would negatively impede theater presence and impair mission capability and operational readiness. The APOD mission at Wrocław Airport cannot function on an enduring basis without this project.</p> <p>ADDITIONAL: This project meets the scope/criteria specified in Air Force Manual 32-1084, Facility Requirements Unified Facility Criteria 3-260-01 Airfield & Heliport Planning & Design, Unified Facility Criteria 3-260-02 Pavement Design for Airfields, United States Air Force in Europe & Air Force in Africa 32-1007 Airfield and Heliport Planning and Design, and NATO Bi-SC Directive 085-005 NATO Criteria and Standards for Airfields, as applicable. 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. A parametric cost estimate based upon project engineering design was used to develop this budget estimate.</p> <p>ECONOMIC ANALYSIS (EA) STATEMENT: Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02 the Energy Policy Act 2005, Executive Orders 13123 and 13423, 10 United States Code (USC) 2802 (c), and other applicable laws and Executive orders. This includes the preparation of a life-cycle cost analysis (LCCA) for energy consuming systems, renewable energy generating systems, or when life cycle cost effective (LCCE) is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable.</p> <p>NATO STATEMENT: NATO eligibility for this project has not yet been established.</p> <p>FYDP STATEMENT: NA</p> <p>MASTER PLAN STATEMENT: Facility is sited in accordance with current Wrocław Airport plans and is within a compatible land use area.</p> <p>JOINT USE CERTIFICATION: These facilities can be used by other components on an "as available" basis; however, the scope of the project is based on United States Air Force requirements.</p> <p>NATO SECURITY INVESTMENT: As the Host Nation, Poland should submit to the NATO Office of Resources (NOR) the Prefinancing Statement (PFS) for the project to be included in Capability Package CP3A0019. This project is partially eligible for funding within an established NATO infrastructure category for common funding and has the potential for reimbursement (partially or whole) from NATO Security Investment Program (NSIP) funds.</p>			

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b. Equipment associated with this project:

EQUIPMENT NOMENCLATURE	FISCAL YEAR APPROPRIATED OR REQUESTED	COST (\$000)
FURNITURE FIXTURES & EQUIPMENT	2026	350
COMMUNICATION EQUIPMENT	2026	150
OTHER	2026	XXX



Department of the Air Force

Military Family Housing

Fiscal Year (FY) 2025 Budget Estimates

**Justification Data Submitted to
Congress**

Feb 2024

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MILITARY FAMILY HOUSING

	<u>Program (\$ in Thousands)</u>
FY 2025 Budget Request	\$547,799
FY 2024 President's Budget Request	\$551,483
FY 2024 Annualized Continuing Resolution (CR) Adjustments	\$65,327
*Total FY 2024 PB Request with Annualized CR Adjustments	\$616,810

NARRATIVE SUMMARY

This Military Family Housing budget request reflects the Air Force's commitment to ensure military personnel and their families have access to quality housing facilities and services. The Air Force relies on the local community to support military family housing needs. When community housing is unavailable or inadequate, the AF provides military family housing to support this requirement. We construct, replace, improve, or repair and maintain military family housing to meet contemporary standards.

The Air Force created the Family Housing Master Plan (FHMP) as the strategic planning and programming investment tool for government-owned, leased and privatized military family housing. This request funds the AF FHMP recommendations to sustain, improve and divest military family housing overseas, support privatized family housing, and lease family housing when necessary and fiscally appropriate.

Consistent with AF FHMP priorities, this budget provides a program that supports daily operations and the maintenance and repair of assets to sustain and prevent deterioration of our inventory. The operations, maintenance and leasing accounts predominantly support "must pay" requirements. These costs include service contracts, lease contracts, utilities, and essential maintenance to operate the units and contract funding to correct life safety, health, and facility preservation issues that cannot wait for family housing construction funding.

MAJOR FACTORS

In accordance with 10 USC 2837, the Department of the Air Force plans to conduct the following Housing Requirements and Market Analysis in FY 2025: Barksdale AFB, LA; Dyess AFB, TX; Dover AFB, DE; Grand Forks AFB, ND; Maxwell AFB, AL; McConnell AFB, KA; Little Rock AFB, AR; Joint Base Charleston, SC; Joint Base Andrews, MD; Joint Base Anacostia-Bolling, MD; Joint Base San Antonio - Lackland, TX; Joint Base San Antonio - Randolph, TX; Joint Base San Antonio - Fort Sam Houston, TX.

We respectfully request full support for the Air Force family housing needs presented herein.

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Continuing Appropriations and Other Extensions, 2024 (Public Law 118-22). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

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FINANCIAL SUMMARY

**AUTHORIZATION FOR APPROPRIATION
REQUESTED FOR FY 2025:**

(\$000)

FUNDING REQUEST FOR FY 2025

Construction	\$5,750
Construction Improvements	\$209,242
Planning and Design	\$6,557
<u>Appropriation Request: Construction</u>	<u>\$221,549</u>

Operations, Utilities, and Maintenance \$287,464

Operating Expenses	\$110,486
Utilities	\$49,955
Maintenance	\$127,023
Housing Privatization	\$32,508
Leasing - Worldwide	\$6,278

Appropriation Request: O&M, Leasing, Housing Privatization \$326,250

Appropriation Request \$547,799

Reimbursement Request \$2,500

FY 2025 FAMILY HOUSING REQUEST \$550,299

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Worldwide

	Number of Units- Worldwide						
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Beginning of FY Adequate Inventory Total	11,697	11,905	12,157	11,862	11,293	10,497	10,151
FCI of 90% to 100% (Good Condition)	9,639	9,273	9,486	8,205	7,293	5,851	5,409
FCI of 80% to 89% (Fair Condition)	2,058	2,632	2,671	3,657	4,000	4,646	4,742
Beginning of FY Inadequate Inventory Total	3,477	3,392	3,114	3,290	3,605	4,353	4,436
FCI of 60% to 79% (Poor Condition)	3,221	3,114	3,032	2,979	3,376	3,980	4,034
FCI of 59% and below (Failing Condition)	256	278	82	311	229	373	402
Beginning of FY Total Inventory	15,174	15,297	15,271	15,152	14,898	14,850	14,587
Percent Adequate - Beginning of FY Inventory	77%	78%	80%	78%	76%	71%	70%
Inadequate Inventory Reduced Through:	(85)	(278)	176	315	748	83	1,029
Construction (FHCON)	0	(25)	0	(2)	(16)	(24)	(40)
Maintenance & Repair (FHO&M)	(70)	(138)	(68)	(86)	(86)	(68)	(27)
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	79	(8)	(19)	(33)	(16)	(63)	(10)
Funded by Host Nation	0	0	0	0	0	0	0
Additional Inadequate Units Identified	(94)	(107)	263	436	866	238	1,106
Adequate Inventory Changes:	208	252	(295)	(569)	(796)	(346)	(1,111)
Construction (FHCON)	0	25	2	2	16	25	40
Maintenance & Repair (FHO&M)	70	138	68	86	86	68	27
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	33	(18)	(102)	(221)	(256)	(241)	(126)
Funded by Host Nation	11	0	0	0	224	40	54
Additional Adequate Units Identified	94	107	(263)	(436)	(866)	(238)	(1,106)
End of FY Adequate Inventory Total	11,905	12,157	11,862	11,293	10,497	10,151	9,040
FCI of 90% to 100% (Good Condition)	9,273	9,486	8,205	7,293	5,851	5,409	4,503
FCI of 80% to 89% (Fair Condition)	2,632	2,671	3,657	4,000	4,646	4,742	4,537
End of FY Inadequate Inventory Total	3,392	3,114	3,290	3,605	4,353	4,436	5,465
FCI of 60% to 79% (Poor Condition)	3,114	3,032	2,979	3,376	3,980	4,034	4,670
FCI of 59% and below (Failing Condition)	278	82	311	229	373	402	795
End of FY Total Inventory	15,297	15,271	15,152	14,898	14,850	14,587	14,505
Percent Adequate - End of FY Inventory	78%	80%	78%	76%	71%	70%	62%
DoD Performance Goal - 90% of world-wide family housing inventory at FCI of at least 80% (Good or Fair Condition)	0%	0%	0%	0%	0%	0%	0%
<p>NOTES:</p> <p>1 - Facility Condition Index (FCI) is a general measure of the physical condition of the facility. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition.</p> <p>2 - Assessment data and investment, sustainment, and divestiture strategy for the worldwide AF government-owned inventory is based on the installation level Housing Community Profiles (HCPs), the Japan Investment Strategy, and the Family Housing Master Plan (FHMP). The FHMP includes updates to scores based on recent HCPs at five installations in Europe and two installations in Japan; and reviews and updates to condition data at other installations based on project execution and data reviews. An adjustment of scores is shown in the FY24 inventory changes.</p> <p>3 - The FY25 scores are reflective of recent 2022 and 2023 HCPs that have been finalized (3 installation with 1,518 housing units) and in progress (4 installation with 5,592 units). Two more installations will have new HCPs in 2024 (7,959 units); which will be updated as available in the next FHMP.</p> <p>4 - Units with FCI scores <60 are planned for divestiture or replacement, with the majority of the units located at Okinawa.</p> <p>5 - There is a large increase in projected future inadequate units in FY27-30 due to the large number of units built/renovated in 2010-2012 that are projected to have scores <80 around the 15-20 year mark.</p> <p>6 - Surplus inventory at Okinawa is identified for divestiture in FY30 – FY36; this is tied to agreements on land returns associated with the Government of Japan (GOJ).</p>							

UNITED STATES (CONUS plus Hawaii and Alaska)

	Number of Units- U.S.						
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Beginning of FY Adequate Inventory Total	30	30	31	31	32	32	32
FCI of 90% to 100% (Good Condition)	30	30	31	31	32	32	32
FCI of 80% to 89% (Fair Condition)	0	0	0	0	0	0	0
Beginning of FY Inadequate Inventory Total	62	76	75	75	64	64	45
FCI of 60% to 79% (Poor Condition)	62	66	65	65	64	64	45
FCI of 59% and below (Failing Condition)	0	10	10	10	0	0	0
Beginning of FY Total Inventory	92	106	106	106	96	96	77
Percent Adequate - Beginning of FY Inventory	33%	28%	29%	29%	33%	33%	42%
Inadequate Inventory Reduced Through:	14	(1)	0	(11)	0	(19)	0
Construction (FHCON)	0	(1)	0	0	0	0	0
Maintenance & Repair (FHO&M)	0	0	0	(1)	0	0	0
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	14	0	0	(10)	0	(19)	0
Funded by Host Nation	0	0	0	0	0	0	0
Additional Inadequate Units Identified	0	0	0	0	0	0	0
Adequate Inventory Changes:	0	1	0	1	0	0	0
Construction (FHCON)	0	1	0	0	0	0	0
Maintenance & Repair (FHO&M)	0	0	0	1	0	0	0
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	0	0	0	0	0	0	0
Funded by Host Nation	0	0	0	0	0	0	0
Additional Inadequate Units Identified	0	0	0	0	0	0	0
End of FY Adequate Inventory Total	30	31	31	32	32	32	32
FCI of 90% to 100% (Good Condition)	30	31	31	32	32	32	32
FCI of 80% to 89% (Fair Condition)	0	0	0	0	0	0	0
End of FY Inadequate Inventory Total	76	75	75	64	64	45	45
FCI of 60% to 79% (Poor Condition)	66	65	65	64	64	45	45
FCI of 59% and below (Failing Condition)	10	10	10	0	0	0	0
End of FY Total Inventory	106	106	106	96	96	77	77
Percent Adequate - End of FY Inventory	28%	29%	29%	33%	33%	42%	42%

NOTES:

1 - Facility Condition Index (FCI) is a general measure of the physical condition of the facility. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition.

2 - Wright Patterson - the FHMP identifies an FHCON projects for Key and Essential (K&E) at 29 historic units in FY20, which is reflected in the FY23+ condition ratings. This project, however, has had multiple protests and construction has not yet begun. Demolition of 10 surplus units was initially identified in FY22; however, due to the delay in the FHCON project, divestiture has been moved to FY26 for the installation to use these 4-BR units as the swing space during the FHCON project. Divestiture of the remaining 40 surplus units is shown in FY28, FY30, and FY32 in order to finalize requirements with the State Historic Preservation Officer (SHPO).

3 - United States Air Force Academy (USAFA) - the inventory includes two General Officer Quarters (GOQs) in the government-owned inventory; one is identified for an FHCON new construction project in FY24 the other as and FHO&M project in FY26. Execution to be finalized with appropriate approvals.

4 - Eglin - nine units were identified for divestiture in FY21. Four units are brought back into the MFH inventory in FY23 due to delays in execution; divestiture plan is being evaluated and identified in FY28.

FOREIGN (includes U.S. Territories)

	Number of Units- Foreign						
	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029
Beginning of FY Adequate Inventory Total	11,667	11,875	12,126	11,831	11,261	10,465	10,119
FCI of 90% to 100% (Good Condition)	9,609	9,243	9,455	8,174	7,261	5,819	5,377
FCI of 80% to 89% (Fair Condition)	2,058	2,632	2,671	3,657	4,000	4,646	4,742
Beginning of FY Inadequate Inventory Total	3,415	3,316	3,039	3,215	3,541	4,289	4,391
FCI of 60% to 79% (Poor Condition)	3,159	3,048	2,967	2,914	3,312	3,916	3,989
FCI of 59% and below (Failing Condition)	256	268	72	301	229	373	402
Beginning of FY Total Inventory	15,082	15,191	15,165	15,046	14,802	14,754	14,510
Percent Adequate - Beginning of FY Inventory	77%	78%	80%	79%	76%	71%	70%
Inadequate Inventory Reduced Through:	(99)	(277)	176	326	748	102	1,029
Construction (FHCON)	0	(24)	0	(2)	(16)	(24)	(40)
Maintenance & Repair (FHO&M)	(70)	(138)	(68)	(85)	(86)	(68)	(27)
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	65	(8)	(19)	(23)	(16)	(44)	(10)
Funded by Host Nation	0	0	0	0	0	0	0
Additional Inadequate Units Identified	(94)	(107)	263	436	866	238	1,106
Adequate Inventory Changes:	208	251	(295)	(570)	(796)	(346)	(1,111)
Construction (FHCON)	0	24	2	2	16	25	40
Maintenance & Repair (FHO&M)	70	138	68	85	86	68	27
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	33	(18)	(102)	(221)	(256)	(241)	(126)
Funded by Host Nation	11	0	0	0	224	40	54
Additional Inadequate Units Identified	94	107	(263)	(436)	(866)	(238)	(1,106)
End of FY Adequate Inventory Total	11,875	12,126	11,831	11,261	10,465	10,119	9,008
FCI of 90% to 100% (Good Condition)	9,243	9,455	8,174	7,261	5,819	5,377	4,471
FCI of 80% to 89% (Fair Condition)	2,632	2,671	3,657	4,000	4,646	4,742	4,537
End of FY Inadequate Inventory Total	3,316	3,039	3,215	3,541	4,289	4,391	5,420
FCI of 60% to 79% (Poor Condition)	3,048	2,967	2,914	3,312	3,916	3,989	4,625
FCI of 59% and below (Failing Condition)	268	72	301	229	373	402	795
End of FY Total Inventory	15,191	15,165	15,046	14,802	14,754	14,510	14,428
Percent Adequate - End of FY Inventory	78%	80%	79%	76%	71%	70%	62%
NOTES:							
1 - Facility Condition Index (FCI) is a general measure of the physical condition of the facility. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition.							
2 - Assessment data and investment, sustainment, and divestiture strategy for the worldwide AF government-owned inventory is based on the installation level Housing Community Profiles (HCPs), the Japan Investment Strategy, and the Family Housing Master Plan (FHMP). The FHMP includes updates to scores based on recent HCPs at five installations in Europe and two installations in Japan; and reviews and updates to condition data at other installations based on project execution and data reviews. An adjustment of scores is shown in the FY24 inventory changes.							
3 - The FY25 scores are reflective of recent 2022 and 2023 HCPs that have been finalized (3 installation with 1,518 housing units) and in progress (4 installation with 5,592 units). Two more installations will have new HCPs in 2024 (7,959 units); which will be reflected in the next FHMP.							
4 - Units with FCI scores <60 are planned for divestiture or replacement, with the majority of the units located at Okinawa.							
5 - There is a large increase in projected future inadequate units in FY27-30 due to the large number of units built/renovated in 2010-2012 that are projected to have scores <80 around the 15-20 year mark.							
6 - Surplus inventory at Okinawa is identified for divestiture in FY30 – FY36; this is tied to agreements on land returns associated with the Government of Japan (GOJ).							

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Transitional

	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>	<u>FY 2026</u>	<u>FY 2027</u>	<u>FY 2028</u>	<u>FY 2029</u>
Beginning of FY Adequate Inventory Total	0	33	39	31	21	21	0
FCI of 90% to 100% (Good Condition)	0	29	39	10	0	0	0
FCI of 80% to 89% (Fair Condition)	0	4	0	21	21	21	0
Beginning of FY Inadequate Inventory Total	0						
FCI of 60% to 79% (Poor Condition)	0	0	0	0	0	0	0
FCI of 59% and below (Failing Condition)	0	0	0	0	0	0	0
Beginning of FY Total Inventory	0	33	39	31	21	21	0
Percent Adequate - Beginning of FY Inventory	0%	100%	100%	100%	100%	100%	0%
Inadequate Inventory Reduced Through:	0						
Construction (FHCON)	0	0	0	0	0	0	0
Maintenance & Repair (FHO&M)	0	0	0	0	0	0	0
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	0	0	0	0	0	0	0
Funded by Host Nation	0	0	0	0	0	0	0
Additional Inadequate Identified	0	0	0	0	0	0	0
Adequate Inventory Changes:	33	6	(8)	(10)	0	(21)	0
Privatization	0	0	0	0	0	0	0
Demolition/Divestiture/Diversion/Conversion	33	6	(8)	(10)	0	(21)	0
Additional Inadequate Identified	0	0	0	0	0	0	0
End of FY Adequate Inventory Total	33	39	31	21	21	0	0
FCI of 90% to 100% (Good Condition)	29	39	10	0	0	0	0
FCI of 80% to 89% (Fair Condition)	4	0	21	21	21	0	0
End of FY Inadequate Inventory Total	0						
FCI of 60% to 79% (Poor Condition)	0	0	0	0	0	0	0
FCI of 59% and below (Failing Condition)	0	0	0	0	0	0	0
End of FY Total Inventory	33	39	31	21	21	0	0
Percent Adequate - End of FY Inventory	100%	100%	100%	100%	100%	0%	0%

NOTES:

1 - The definition of transitional family housing (FH) are units that are at enduring and non-enduring sites 1) as a result of organizational deactivations, consolidation (e.g. Europe Infrastructure Consolidation (EIC), etc.) and relocation efforts; 2) where FH units have been identified by the Services as surplus and not currently occupied; and 3) in both cases, the Service has planned, documented, funded and/or announced the divestiture, demolition, or transfer of these units in the Future Years Defense Program (FYDP).

2. The European Infrastructure Consolidation (EIC) decisions have impacted manpower requirements for bases in England. The 2022 Housing Requirements and Market Analysis (HRMA) for RAF Fairford identified a decrease due to the EIC decisions. There is now a 62 unit surplus; initially 33 units were identified to be divested within the FYDP (added to transitional inventory in FY24); however, updated planning has identified 39 units to be divested within the FYDP. The additional 6 units are added to the transitional inventory in FY25. Divestiture is planned for 8 units in FY25, 10 units in FY26, and 21 units in FY28. The remaining surplus units are planned for use as swing space during renovations of the required units. The surplus swing space units are identified to be removed after the FYDP, therefore these units are not included in the transitional numbers per definition number 3 (Note 1).

3 - Facility Condition Index (FCI) is a general measure of the physical condition of the facility. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition.

Transitional Unit Details by Location

<u>State/Country</u>	<u>Installation</u>	<u>N/E²</u>	<u>Change in Transitional Units</u>	<u>Condition (FCI)³</u>	<u>Explanation</u>
FY 2023					
United Kingdom	RAF Fairford	N	33	1/2	Manpower and housing requirements have been reduced as identified the 2022 Draft Housing Requirements and Market Analysis (HRMA) due to the European Infrastructure Consolidation (EIC) decisions. See Note 2 for more details.
FY 2023 Transitional Unit Changes			33		
FY 2024					
United Kingdom	RAF Fairford	N	6	1	Manpower and housing requirements have been reduced as identified the 2022 Draft HRMA due to the EIC decisions. See Note 2 for more details.
FY 2024 Transitional Unit Changes			6		
FY 2025					
United Kingdom	RAF Fairford	N	(8)	1	Manpower and housing requirements have been reduced as identified the 2022 Draft HRMA due to the EIC decisions. See Note 2 for more details.
FY 2025 Transitional Unit Changes			(8)		
FY 2026					
United Kingdom	RAF Fairford	N	(10)	1	Manpower and housing requirements have been reduced as identified the 2022 Draft HRMA due to the EIC decisions. See Note 2 for more details.
FY 2026 Transitional Unit Changes			(10)		
FY 2027					
FY 2027 Transitional Unit Changes			0		
FY 2028					

<u>State/Country</u>	<u>Installation</u>	<u>N/E</u> ²	<u>Change in Transitional Units</u>	<u>Condition (FCI)</u> ³	<u>Explanation</u>
United Kingdom	RAF Fairford	N	(21)	2	Manpower and housing requirements have been reduced as identified the 2022 Draft HRMA due to the EIC decisions. See Note 2 for more details.
FY 2028 Transitional Unit Changes			(21)		
FY 2029					
FY 2029 Transitional Unit Changes			0		
Total			0		
<p>NOTES:</p> <p>1 - The definition of transitional family housing (FH) are units that are at enduring and non-enduring sites 1) as a result of organizational deactivations, consolidation (e.g. Europe Infrastructure Consolidation (EIC), etc.) and relocation efforts; 2) where FH units have been identified by the Services as surplus and not currently occupied; and 3) in both cases, the Service has planned, documented, funded and/or announced the divestiture, demolition, or transfer of these units in the Future Years Defense Program (FYDP).</p> <p>2. The European Infrastructure Consolidation (EIC) decisions have impacted manpower requirements for bases in England. The 2022 Housing Requirements and Market Analysis (HRMA) for RAF Fairford identified a decrease due to the EIC decisions. There is now a 62 unit surplus; initially 33 units were identified to be divested within the FYDP (added to transitional inventory in FY24); however, updated planning has identified 39 units to be divested within the FYDP. The additional 6 units are added to the transitional inventory in FY25. Divestiture is planned for 8 units in FY25, 10 units in FY26, and 21 units in FY28. The remaining surplus units are planned for use as swing space during renovations of the required units. The surplus swing space units are identified to be removed after the FYDP, therefore these units are not included in the transitional numbers per definition number 3 (Note 1).</p> <p>3 - Facility Condition Index (FCI) is a general measure of the physical condition of the facility. FCI is calculated as the ratio of Plant Replacement Value (PRV) minus the estimated cost of maintenance and repair requirements, divided by PRV. This provides a FCI from 0% to 100% with 100% representing good condition. Facility Condition Index bands:</p> <ul style="list-style-type: none"> 1 - FCI of 90% to 100% (Good Condition) 2 - FCI of 80% to 89% (Fair Condition) 3 - FCI of 60% to 79% (Poor Condition) 4 - FCI of 59% and below (Failing Condition) 					

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FH-8 Air Force Inadequate Family Housing Units Eliminated in FY 2023

<u>MAJCOM</u>	<u>Project Type</u>	<u>Base</u>	<u>Total Inventory Minus Leased & Privatized</u>	<u>Total Inadequate Inventory</u>	<u>Total Inadequate Addressed</u>
Units at Beginning of FY 2023			15,174	3,477	
Additional Inadequate Units Identified			0	(94)	0
PACAF	Condition Adjustment	Misawa	0	76	0
PACAF	Condition Adjustment	Okinawa	0	(107)	0
PACAF	Condition Adjustment	Osan	0	4	0
PACAF	Condition Adjustment	Yokota	0	40	0
USAFE	Condition Adjustment	RAF Croughton	0	(22)	0
USAFE	Condition Adjustment	RAF Lakenheath	0	(84)	0
USAFE	Condition Adjustment	KMC	0	(1)	0
FY 2023 Family Housing Construction, Improvement, and O&M Projects to Eliminate Inadequate Units			0	(70)	70
PACAF	FHO&M	Yokota	0	(70)	70
Privatization Projects Executed			0	0	0
Units Demolished/Divested FY 2023			112	79	(79)
AFMC	Divestiture Cancelled (See note 4)	Eglin	4	4	(4)
AFMC	Divestiture Cancelled (See note 5)	Wright Patterson	10	10	(10)
PACAF	Divestiture Cancelled (See note 6)	Okinawa	180	180	(180)
PACAF	Acquisition (See note 6)	Okinawa	33	0	0
PACAF	Demolition (See note 6)	Okinawa	(115)	(115)	115
Units Added to Family Housing			0	0	0
Deficit			0	0	0
Host Nation Construction projects			11	0	0
PACAF	Japanese Facilities Improvement Program (JFIP) (See note 7)	Okinawa	11	0	0
Units at End of FY 2023			15,297	3,392	(9)
<p>1 - Condition adjustments reflect the 2021 and 2022 Housing Community Profile (HCP) re-assessments of Royal Air Force (RAF) Croughton; RAF Feltwell; RAF Lakenheath; RAF Mildenhall; Kaiserslautern Military Community (KMC); and Spangdahlem Air Base (AB). Condition adjustments also reflect updates completed through the FHMP to provide updates to condition data at other installations based on project execution and data reviews.</p> <p>2 - Family Housing Military Construction (FHCON) and Family Housing Operations and Maintenance (FHO&M) investments are based on the HCP and Family Housing Master Plan (FHMP). Inventory reflects the FY23 FHCON and FHO&M projects.</p> <p>3 - Divestiture is based on Family Housing Master Plan updates with input from the installations and AFIMSC Detachments.</p> <p>4 - Eglin - nine units were identified for divestiture in FY21. Four units are brought back into the MFH inventory in FY23 due to delays in execution; divestiture plan is being evaluated and identified in FY28.</p> <p>5 - Wright Patterson - demolition was initially identified for 10 units in FY22; however, this project has been placed on hold to address grade/bedroom mix needs during renovations. These 10 units are added back into the inventory in FY23. Divestiture for the surplus units is now shown in FY26 (10 units); FY28 (15 units); FY30 (15 units); and FY32 (10 units).</p> <p>6 - Okinawa inventory changes include: - Divestiture/demolition of units 180 which have been placed on hold; these units were originally planned for divestiture associated with the Japanese Facilities Improvement Program (JFIP) future phases. Due to delays in future phases, these units have been added back into the inventory in FY23 until a determination is made through the future HCP (planned in FY24). - 33 units, formerly used by the Department of State (DOS), are added back into the MFH inventory in FY23 to correct the record. - Demolition of 4 surplus units at Kadena AB (based on condition); and demolition of 111 planned and funded by the Government of Japan (GOJ) for future replacement construction at the United States Marines Corps (USMCMC) area through the Special Actions Committee of Okinawa (SACO) program.</p> <p>7. The Host Nation Construction project is funded by the GOJ includes replacement construction at Kadena AB through JFIP. Project update has been provided by the installation and AFIMSC Detachment 2.</p>					

FH-8 Air Force Inadequate Family Housing Units Eliminated in FY 2024

<u>MAJCOM</u>	<u>Project Type</u>	<u>Base</u>	<u>Total Inventory Minus Leased & Privatized</u>	<u>Total Inadequate Inventory</u>	<u>Total Inadequate Addressed</u>
Units at Beginning of FY 2024			15,297	3,392	
Additional Inadequate Units Identified			0	(107)	0
PACAF	Condition Adjustment	Misawa	0	(236)	0
PACAF	Condition Adjustment	Okinawa	0	574	0
PACAF	Condition Adjustment	Osan	0	112	0
PACAF	Condition Adjustment	Yokota	0	(454)	0
PACAF	Condition Adjustment	KMC	0	2	0
USAFE	Condition Adjustment	RAF Alconbury	0	2	0
USAFE	Condition Adjustment	RAF Croughton	0	2	0
USAFE	Condition Adjustment	RAF Lakenheath	0	(109)	0
FY 2024 Family Housing Construction, Improvement, and O&M Projects to Eliminate Inadequate Units			0	(163)	163
PACAF	FHCON	Yokota	0	(24)	24
USAF	FHCON	US Air Force Academy	0	(1)	1
PACAF	FHO&M	Okinawa	0	(68)	68
PACAF	FHO&M	Yokota	0	(70)	70
Privatization Projects Executed			0	0	0
Units Demolished/Divested FY 2024			(26)	(8)	8
PACAF	Demolition	Yokota	(8)	(8)	8
USAFE	Demolition	Spangdahlem	(18)	0	0
Units Added to Family Housing			0	0	0
Deficit Construction			0	0	0
Host Nation Construction projects			0	0	0
Units at End of FY 2024			15,271	3,114	171
<p>1 - Condition adjustments reflect the 2022/2023 Housing Community Profile (HCP) final assessment updates for of Royal Air Force (RAF) RAF Alconbury and RAF Lakenheath; and the 2023 assessments for Misawa Air Base (AB) and Yokota (AB). Additional condition adjustments reflect projected degradation based on the latest HCP assessments.</p> <p>2 - Family Housing Military Construction (FHCON) and Family Housing Operations and Maintenance (FHO&M) investments are based on the Housing Community Profile (HCP) and Family Housing Master Plan (FHMP). Inventory reflects the FY24 FHCON and FHO&M projects.</p> <p>3 - Divestiture is based on Family Housing Master Plan updates with input from the installations and AFIMSC Detachments.</p>					

FH-8 Air Force Inadequate Family Housing Units Eliminated in FY 2025

MAJCOM	Project Type	Base	Total Inventory Minus Leased & Privatized	Total Inadequate Inventory	Total Inadequate Addressed
Units at Beginning of FY 2025			15,271	3,114	
Additional Inadequate Units Identified			0	263	0
PACAF	Condition Adjustment	Misawa	0	16	0
PACAF	Condition Adjustment	Yokota	0	214	0
USAFE	Condition Adjustment	KMC	0	18	0
USAFE	Condition Adjustment	RAF Lakenheath	0	15	0
FY 2025 Family Housing Construction, Improvement, and O&M Projects to Eliminate Inadequate Units			0	(68)	68
PACAF	FHO&M	Okinawa	0	(68)	68
Privatization Projects Executed			0	0	0
Units Demolished/Divested FY 2025			(121)	(19)	19
PACAF	Divestiture	Yokota	(17)	(13)	13
USAFE	Divestiture	RAF Croughton	(96)	(6)	6
USAFE	Divestiture	RAF Fairford	(8)	0	0
Units Added to Family Housing			0	0	0
Deficit Construction			2	0	0
USAFE	Deficit Construction	KMC	2	0	0
Host Nation Construction projects			0	0	0
Units at End of FY 2025			15,152	3,290	87
1 - Family Housing Military Construction (FHCON) and Family Housing Operations and Maintenance (FHO&M) investments are based on the Housing Community Profile (HCP) and Family Housing Master Plan (FHMP). 2 - Divestiture is based on Family Housing Master Plan updates with input from the installations and AFIMSC Detachments.					

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AUTHORIZATION LANGUAGE

SEC. 2302. FAMILY HOUSING

(a) CONSTRUCTION AND ACQUISITION. Using amounts appropriated pursuant to the authorization of appropriations in Section 2303(a) and available for military family housing functions as specified in the funding table in section 4601, the Secretary of the Air Force may carry out architectural and engineering services with respect to the construction of family housing units as set forth in the following table:

Air Force: Family Housing

State	Installation	Units	Amount
Germany	Ramstein AB	7	\$5,750,000

(b) IMPROVEMENTS TO MILITARY FAMILY HOUSING UNITS. – Subject to section 2825 of Title 10, United States Code, and using amounts appropriated pursuant to the authorization of appropriations in Section 2303(a) and available for military family housing functions as specified in the funding table in section 4601, the Secretary of the Air Force may improve existing military family housing units in an amount not to exceed [\$229,282,000] \$209,242,000.

(c) PLANNING AND DESIGN. – Using amounts appropriated pursuant to the authorization of appropriations in Section 2303(a) and available for military family housing functions as specified in the funding table in section 4601, the Secretary of the Air Force may carry out architectural and engineering services and construction design activities with respect to the construction or improvement of military family housing units in an amount not to exceed [\$7,815,000] \$6,557,000.

SEC. 2303. AUTHORIZATION OF APPROPRIATIONS, AIR FORCE

(a) AUTHORIZATION OF APPROPRIATIONS. – Funds are hereby authorized to be appropriated for fiscal years beginning after September 30, 2024, for military construction, land acquisition, and military family housing functions of the Department of the Air Force, as specified in the funding table in section 4601.

(b) LIMITATION ON TOTAL COST OF CONSTRUCTION PROJECTS. – Notwithstanding the cost variations authorized by section 2853 of title 10, United States Code, and any other cost variation authorized by law, the total cost of all projects carried out under section 2301 of this Act may not exceed the total amount authorized to be appropriated under subsection (a), as specified in the funding table in section 4601.

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APPROPRIATION LANGUAGE

FAMILY HOUSING CONSTRUCTION, AIR FORCE

For expenses of family housing for the Air Force for construction, including acquisition, replacement, addition, expansion, extension, and alteration, as authorized by law, [\$237,097,000] \$221,549,000 to remain available until September 30, 2029.

FAMILY HOUSING OPERATION AND MAINTENANCE, AIR FORCE

For expenses of family housing for the Air Force for operation and maintenance, including debt payment, leasing, minor construction, principal and interest charges, and insurance premiums, as authorized by law [\$314,386,000] \$326,250,000.

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FAMILY HOUSING CONSTRUCTION

	<u>Program (\$ in Thousands)</u>
FY 2025 Budget Request	\$221,549
FY 2024 President's Budget Request	\$237,097
FY 2024 Annualized Continuing Resolution (CR) Adjustments	\$ 14,091
*Total FY 2024 PB Request with Annualized CR Adjustments	\$251,588

NEW CONSTRUCTION

	<u>Budget Request (\$ in Thousands)</u>
FY 2025 Budget Request	\$5,750
FY 2024 Budget Request	\$0

Purpose and Scope

This program provides for site preparation, acquisition, and construction, and initial outfitting with fixtures and integral equipment of new family housing units and associated facilities such as roads, driveways, sidewalks, and utility systems.

Budget Request Summary

Authorization is requested for:

- (1) Construction of two new (deficit) General Officer Quarters at Ramstein AB, Germany, (\$4,350,000) in FY2025.
- (2) Replacement of five detached, single-car garages with two-car garages at Ramstein AB, Germany, (\$1,400,000) in FY2025.

<u>Activity</u>	<u>Mission</u>	<u>No. of Units</u>	<u>Amount (\$000)</u>
Activity Total		7	\$5,750
Ramstein AB, GE	Current	2	\$4,350
Ramstein AB, GE	Current	5	\$1,400

* A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Continuing Appropriations and Other Extensions, 2024 (Public Law 118-22). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION RAMSTEIN AIR BASE RAMSTEIN AIR BASE SITE 1 GERMANY		4. PROJECT TITLE: TWO GENERAL OFFICER QUARTERS (GOQ)		
5. PROGRAM ELEMENT 88741F	6. CATEGORY CODE 711-142	7. PROJECT NUMBER TYFR244003	8. PROJECT COST (\$000) \$4,350	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)
PRIMARY FACILITIES				3,415
FAMILY HOUSING APPROPRIATED FY 70 AND AFTER	UN	2	1,570,000	(3,140)
CYBERSECURITY OF FACILITY-RELATED CONTROL SYS	LS			(275)
SUPPORTING FACILITIES				435
SITE PREPARATION	LS			(64)
SITE IMPROVEMENTS	LS			(72)
UTILITIES	LS			(108)
PAVEMENTS	LS			(77)
PASSIVE FORCE PROTECTION	LS			(25)
COMMUNICATIONS	LS			(47)
ENVIRONMENTAL SUPPORT	LS			(42)
SUBTOTAL				3,850
CONTINGENCY (5.0%)				193
TOTAL CONTRACT COST				4,043
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)				295
TOTAL REQUEST				4,338
TOTAL REQUEST (ROUNDED)				4,350
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(120)
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION: Construct two General Officer Quarters four bedroom two story unit with all necessary amenities and supporting facilities. The project includes site preparation, attached two-car garages, parking, exterior patios and privacy fencing, road infrastructure, utilities, communications, landscaping and environmental support for complete and usable facilities. The General Officer Quarters will be designed based on the US Air Force Family Housing Guide and the current Housing Community Profile, and providing compliance with the existing layout of the General Officer Quarters built in Kaiserslautern Military Community between 2004 - 2008 during the Military Family Housing Improvement Program.</p> <p>Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building Requirements and Unified Facilities Criteria 4-711-01 Family Housing. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: N/A</p>				

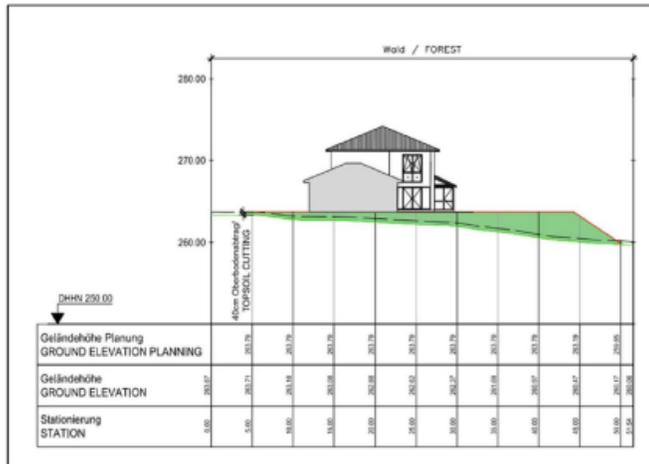
1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
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5. PROGRAM ELEMENT 88741F	6. CATEGORY CODE 711-142	7. PROJECT NUMBER TYFR244003	8. PROJECT COST (\$000) \$4,350
<p>11. REQUIREMENT: 2 UN ADEQUATE: 0 UN SUBSTANDARD: 0 UN</p> <p>PROJECT: Construct two General Officer Quarters</p> <p>REQUIREMENT: This project is required to provide modern and efficient housing for General Officers and their dependents stationed at Ramstein AFB. The units will meet modern housing standards and are programmed in accordance with the Housing Community Profile. The housing will provide a safe, comfortable, and appealing living environment comparable to the off-base civilian community. The design will provide a modern kitchen, living room, family room, bedroom, and bath configuration, with ample interior and exterior storage. The number of bedrooms will be four based on Air Force Instruction 32-6000 and Air Force Family Housing Guide for General Officer Quarters. Units will be provided with a duplex car garage and exterior parking for vehicles. Space will also be provided with an adequate support infrastructure of roads and utilities. The base currently has only twelve General Officer Quarters units available versus the validated requirement of fifteen. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: The most recent Housing Requirements and Market Analysis for the base shows a deficit of three General Officer Quarters housing units. The shortage of suitable General Officer housing forces the base to occupy General Officer personnel in Senior Officer units which do not provide adequate size and living standards authorized for General Officers. The remaining deficit of an additional General Officer Quarters has been more recently identified and insertion in this project would put execution timelines at risk. This deficit will be addressed in a subsequent effort if mission requirements are enduring.</p> <p>IMPACT IF NOT PROVIDED: There are no alternatives for General Officers living in inadequate housing located at Ramstein AB. The impact will be the continued loss of Senior Officer Quarters units due to the temporarily conversion into General Officer Quarters.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in the Air Force Manual 32-1084, Facility Requirements, Air Force Instruction 32-6000 Housing Management, and Unified Facilities Criteria 4-711-01, Family Housing. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from the United States Army Corps of Engineers. All reasonable alternatives were considered during the development of this project to include status quo, new construction, and renovation. An Economic Analysis is in progress for this project. Sustainable principles, to include life-</p>			

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
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5. PROGRAM ELEMENT 88741F	6. CATEGORY CODE 711-142	7. PROJECT NUMBER TYFR244003	8. PROJECT COST (\$000) \$4,350
<p>cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, or when life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project does not fall or partly within a 100-year flood plain. Facilities are sited in accordance with the Installation Development Plan and are within a compatible land use area.</p> <p>86 Wing Base Civil Engineer: 011-49-6371-5007</p> <p>FOREIGN CURRENCY BUDGET RATE USED: EURO-DOLLAR 0.9798</p>			

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION RAMSTEIN AIR BASE RAMSTEIN AIR BASE SITE 1 GERMANY		4. PROJECT TITLE: TWO GENERAL OFFICER QUARTERS (GOQ)	
5. PROGRAM ELEMENT 88741F	6. CATEGORY CODE 711-142	7. PROJECT NUMBER TYFR244003	8. PROJECT COST (\$000) \$4,350
12. SUPPLEMENTAL DATA			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design			Design-Bid-Build
(b) Date Design Started			15-DEC-21
(c) Parametric Cost Estimates used to develop costs			YES
(d) Percent Complete as of 01 JAN 2024			100%
(e) Date 35% Designed			18-MAY-22
(f) Date Design Complete			1-AUG-23
(g) Energy Study/Life-Cycle analysis was performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			N/A
(3) Total cost = (a) + (b) and (d) + (e)			(\$000)
(a) Production of Plans and Specifications			257
(b) All Other Design Costs			129
(c) Total			386
(d) Contract			432
(e) In-house			64
(4) Construction Contract Award			2025-MAR
(5) Construction Start			2025-JUL
(6) Construction Completion			2026-DEC
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)
FURNITURE FIXTURES & EQUIPMENT	721.40	2026	80
COMMUNICATION EQUIPMENT	3400	2026	40

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION RAMSTEIN AIR BASE RAMSTEIN AIR BASE SITE 1 GERMANY		4. PROJECT TITLE: TWO GENERAL OFFICER QUARTERS (GOQ)
5. PROGRAM ELEMENT 88741F	6. CATEGORY CODE 711-142	7. PROJECT NUMBER TYFR244003
		8. PROJECT COST (\$000) \$4,350

Site Plan Location 2



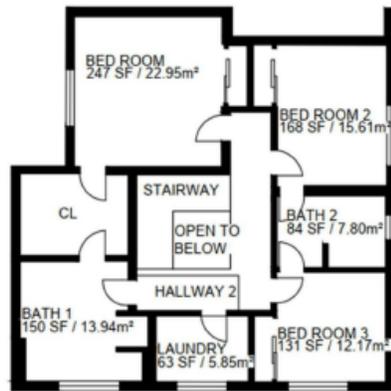
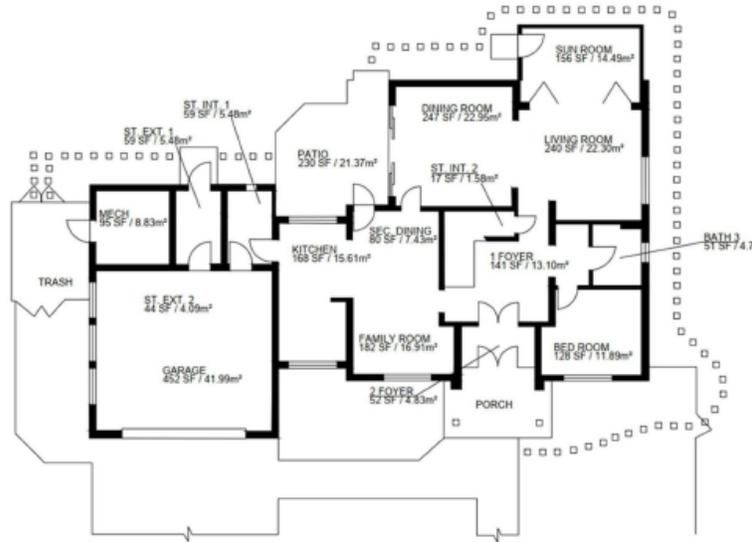
1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
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5. PROGRAM ELEMENT 88741F	6. CATEGORY CODE 711-142	7. PROJECT NUMBER TYFR244003
		8. PROJECT COST (\$000) \$4,350

Site Plan Location 3



1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION RAMSTEIN AIR BASE RAMSTEIN AIR BASE SITE 1 GERMANY		4. PROJECT TITLE: TWO GENERAL OFFICER QUARTERS (GOQ)
5. PROGRAM ELEMENT 88741F	6. CATEGORY CODE 711-142	7. PROJECT NUMBER TYFR244003
		8. PROJECT COST (\$000) \$4,350

GOQ Design 1st and 2nd Floor



1. COMPONENT AIR FORCE		FY <u>2025</u> MILITARY CONSTRUCTION PROGRAM					2. DATE (YYYYMMDD) 20230822				
3. INSTALLATION AND LOCATION RAMSTEIN AIR BASE, GERMANY					4. COMMAND UNITED STATES AIR FORCES IN EUROPE			5. AREA CONSTRUCTION COST INDEX 0.74			
6. PERSONNEL		(1) PERMANENT			(2) STUDENTS			(3) SUPPORTED			(4) TOTAL
		OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	OFFICER	ENLISTED	CIVILIAN	
a. AS OF Oct 20		2,440	10,336	1,851	0	0	0	0	0	0	14,627
b. END FY		2,425	10,347	1,828	0	0	0	0	0	0	14,600
7. INVENTORY DATA (\$000)											
a. TOTAL ACREAGE										1,024	
b. INVENTORY TOTAL AS OF 30 Sep 23										5,249,651.00	
c. AUTHORIZATION NOT YET IN INVENTORY										0.00	
d. AUTHORIZATION REQUESTED IN THIS PROGRAM										5,750.00	
e. AUTHORIZATION INCLUDED IN FOLLOWING PROGRAM										0.00	
f. PLANNED IN NEXT THREE PROGRAM YEARS										2,500.00	
g. REMAINING DEFICIENCY										406,675.00	
h. GRAND TOTAL										5,664,576.00	
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		
711-142	Two General Officer Quarters (GOQ)			2 Units		4,350		12/21	03/23		
711-161	Replace Duplex Garages at GOQs			5 Units		1,400		12/21	03/23		
9. FUTURE PROJECTS											
a. Included in Following Program: 0 Homes											
b. Planned Next Three Years: 1 Home											
c. R&M Family Housing Revitalization Requirement (Replacement, Improvements, Major Repairs): \$406.675M											
10. MISSION OR MAJOR FUNCTIONS											
Home of the 86th Airlift Wing, Headquarters US Air-Forces in Europe, 3rd Air Force, 17th Air Force, as well as the North Atlantic Treaty Organization Headquarters Air North. Ramstein AB is the central airlift hub for strategic and tactical airlift within the European theater. The wing's mission is the operation and maintenance of airlift assets composed of C-130s for tactical airlift, a C-40, C-20s & C-21s for DV airlift throughout Europe, Africa, and the Middle East.											
11. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES											
a. Air Pollution 0											
b. Water Pollution 0											
c. Occupational Safety and Health 0											
d. Other Environmental 0											
OUTSTANDING DEFICIENCIES TOTAL: 0											

MILITARY FAMILY HOUSING JUSTIFICATION		1. DATE OF REPORT 20230815		2. FISCAL YEAR 2025		REPORT CONTROL SYMBOL		
3. DOD COMPONENT Air Force		4. REPORTING INSTALLATION						
5. DATA AS OF		a. NAME KMC			b. LOCATION Germany			
ANALYSIS OF REQUIREMENTS AND ASSETS	CURRENT				PROJECTED			
	OFFICER (a)	E9 - E4 (b)	E3 - E1 (c)	TOTAL (d)	OFFICER (a)	E9 - E4 (b)	E3 - E1 (c)	TOTAL (d)
6. TOTAL PERSONNEL STRENGTH	2440	8254	2112	12806	2425	8236	2111	12772
7. PERMANENT PARTY PERSONNEL	2440	8254	2112	12806	2425	8236	2111	12772
8. GROSS FAMILY HOUSING REQUIREMENTS	1825	4988	389	7202	1814	4977	389	7180
9. TOTAL UNACCEPTABLY HOUSED (a+b+c)	0	0	0	0				
a. INVOLUNTARILY SEPARATED	0	0	0	0				
b. IN MILITARY HOUSING TO BE DISPOSED/REPLACED	0	0	0	0				
c. UNACCEPTABLY HOUSED - IN	0	0	0	0				
10. VOLUNTARY SEPARATIONS	0	0	0	0	0	0	0	0
11. EFFECTIVE HOUSING REQUIREMENTS	1825	4988	389	7202	1814	4977	389	7180
12. HOUSING ASSETS (a+b)	1897	5217	936	8050	1888	5294	675	7857
a. UNDER MILITARY CONTROL	350	899	592	1841	350	986	331	1667
(1) Housed in existing DoD	267	853	179	1299	350	986	331	1667
(2) Under Contract/Approved					0	0	0	0
(3) Vacant	65	46	251	362				
(4) Inactive	18	0	162	180				
b. PRIVATE HOUSING	1547	4318	344	6209	1538	4308	344	6190
(1) Acceptably Housed	1547	4318	344	6209				
(2) Acceptable Vacant Rental	0	0	0	0				
13. EFFECTIVE HOUSING DEFICIT	0	0	0	0	3	0	0	0
14. PROPOSED PROJECT					2	0	0	0
15. REMARKS (Specify item number) The 2020 Housing Requirements and Market Analysis identified a deficit of 3 GOQs. Two GOs are currently living in SOQ units and the other GO is incoming. The remaining GOQ will be addressed in a future update to the Air Force Family Housing Master Plan.								

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION RAMSTEIN AIR BASE RAMSTEIN AIR BASE SITE 1 GERMANY			4. PROJECT TITLE: REPLACE DUPLEX GARAGES AT GOQs		
5. PROGRAM ELEMENT 88741F	6. CATEGORY CODE 711-161	7. PROJECT NUMBER TYFR214129		8. PROJECT COST (\$000) \$1,400	
9. COST ESTIMATES					
ITEM	U/M	QUANTITY	UNIT COST (\$)	COST (\$000)	
PRIMARY FACILITIES				1,080	
FAMILY HOUSING DEUTCHMARK	UN	5	216,000	(1,080)	
SUPPORTING FACILITIES				183	
SITE PREPARATION	LS			(21)	
SITE IMPROVEMENTS	LS			(14)	
UTILITIES	LS			(38)	
PAVEMENTS	LS			(57)	
PASSIVE FORCE PROTECTION	LS			(20)	
COMMUNICATIONS	LS			(4)	
ENVIRONMENTAL SUPPORT	LS			(29)	
SUBTOTAL				1,263	
CONTINGENCY (5.0%)				63	
TOTAL CONTRACT COST				1,326	
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)				97	
TOTAL REQUEST				1,423	
TOTAL REQUEST (ROUNDED)				1,400	
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(15)	
<p>10. DESCRIPTION OF PROPOSED CONSTRUCTION: Replace five detached single car garages with enclosed duplex garages including trash enclosure on existing General Officer Quarters (Buildings: 1010, 1012, 1013, 1112A/B) with all necessary supporting facilities. The project includes demolition of existing attached single car garages, site preparation, pavements, utilities, communications, restore landscaping and environmental support for testing of debris and remediation for complete and usable facilities. The duplex garages will be designed based on the US Air Force Family Housing Guide and the current Housing Community Profile (HCP), and matching the existing layout of these General Officer Quarters. Facilities will be designed as permanent construction in accordance with Department of Defense Unified Facilities Criteria 1-200-01, General Building Requirements and Unified Facilities Criteria 4-711-01 Family Housing. This project will comply with Department of Defense antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01.</p> <p>Air Conditioning: N/A</p>					

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<p>11. REQUIREMENT: 5 UN ADEQUATE: 0 UN SUBSTANDARD: 0 UN</p> <p>PROJECT: Replace five detached single car garages with duplex garages including trash enclosure on existing General Officer Quarters</p> <p>REQUIREMENT: This project is required to provide modern and efficient housing for General Officers and their dependents stationed at Ramstein AFB. All garages will meet modern housing standards programmed in accordance with the Housing Community Profile, and include separate trash storage. The replacement of the single car garages is required to upgrade the existing General Officer Quarters (Buildings: 1010, 1012, 1013, 1112A/B) in order to provide modern amenities equal to the recently built General Officer Quarters. This is not a tenant or supported service requirement.</p> <p>CURRENT SITUATION: The detached single car garages at the existing General Officer Quarters mentioned above were built in 1956 and currently in an inadequate condition and do not meet current General Officer Quarters authorization standards for a two-car garage. Furthermore the electrical system is overloaded and outdated.</p> <p>IMPACT IF NOT PROVIDED: Without this project, the garages will remain in an inadequate condition not meeting the authorized General Officer Quarters size criteria identified in the current/valid Individual Facility Profile.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in the Air Force Manual 32-1084, Facility Requirements, Air Force Instruction 32-6000 Housing Management, and Unified Facilities Criteria 4-711-01, Family Housing. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from the United States Army Corps of Engineers. An Economic Analysis will not be required since the investment cost is below \$2.0M. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, or when life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project does not fall or partly within a 100-year flood plain. Facilities are sited in accordance with the Installation Development Plan and are within a compatible land use area.</p>			

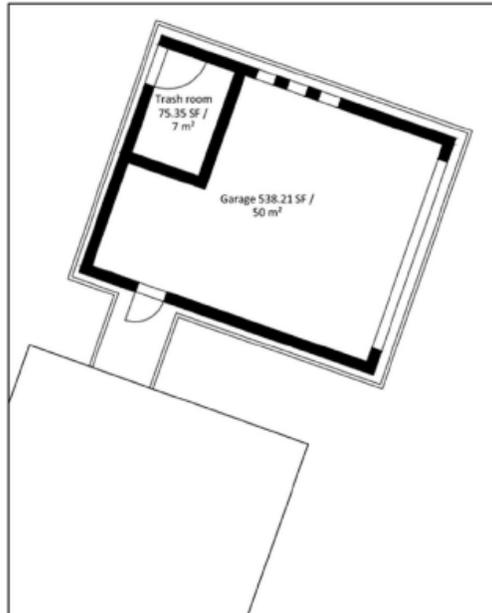
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86 Wing Base Civil Engineer: 011-49-6371-5007
FOREIGN CURRENCY BUDGET RATE USED: EURO-DOLLAR 0.9798

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE FEBRUARY 2024
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5. PROGRAM ELEMENT 88741F	6. CATEGORY CODE 711-161	7. PROJECT NUMBER TYFR214129	8. PROJECT COST (\$000) \$1,400
12. SUPPLEMENTAL DATA			
a. Estimated Design Data:			
(1) Status:			
(a) Type of Design			Design-Bid-Build
(b) Date Design Started			15-DEC-21
(c) Parametric Cost Estimates used to develop costs			YES
(d) Percent Complete as of 01 JAN 2024			100%
(e) Date 35% Designed			18-MAY-22
(f) Date Design Complete			1-MAR-23
(g) Energy Study/Life-Cycle analysis was performed			YES
(2) Basis:			
(a) Standard or Definitive Design -			NO
(b) Where Design Was Most Recently Used -			N/A
(3) Total cost = (a) + (b) and (d) + (e)			(\$000)
(a) Production of Plans and Specifications			86
(b) All Other Design Costs			43
(c) Total			129
(d) Contract			108
(e) In-house			21
(4) Construction Contract Award			2025-MAR
(5) Construction Start			2025-JUL
(6) Construction Completion			2026-JUL
b. Equipment associated with this project provided from other appropriations:			
		FISCAL YEAR	
		APPROPRIATED	COST
EQUIPMENT NOMENCLATURE	PROCURING APPROP	OR REQUESTED	(\$000)
FURNITURE FIXTURES & EQUIPMENT	722.91	2025	15

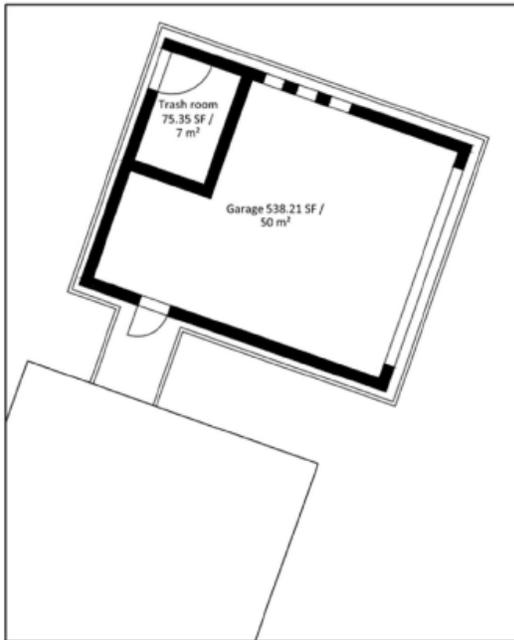
1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION RAMSTEIN AIR BASE RAMSTEIN AIR BASE SITE 1 GERMANY		4. PROJECT TITLE: REPLACE DUPLEX GARAGES AT GOQs	
5. PROGRAM ELEMENT 88741F	6. CATEGORY CODE 711-161	7. PROJECT NUMBER TYFR214129	8. PROJECT COST (\$000) \$1,400

Design detached duplex Garage at GOO 1010



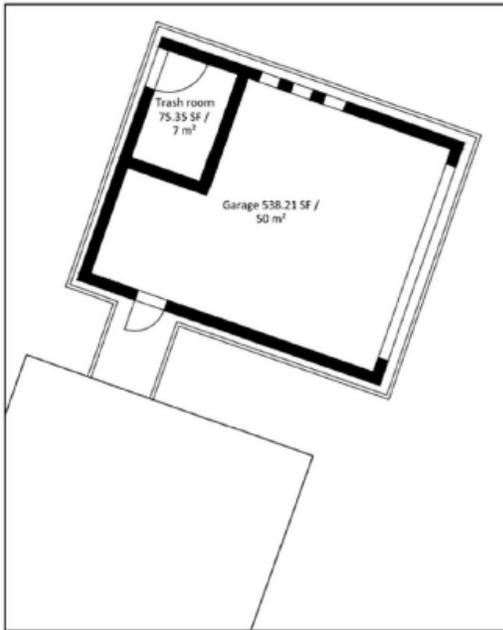
1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024	
3. INSTALLATION AND LOCATION RAMSTEIN AIR BASE RAMSTEIN AIR BASE SITE 1 GERMANY		4. PROJECT TITLE: REPLACE DUPLEX GARAGES AT GOQs	
5. PROGRAM ELEMENT 88741F	6. CATEGORY CODE 711-161	7. PROJECT NUMBER TYFR214129	8. PROJECT COST (\$000) \$1,400

Design detached duplex Garage at GOQ 1012



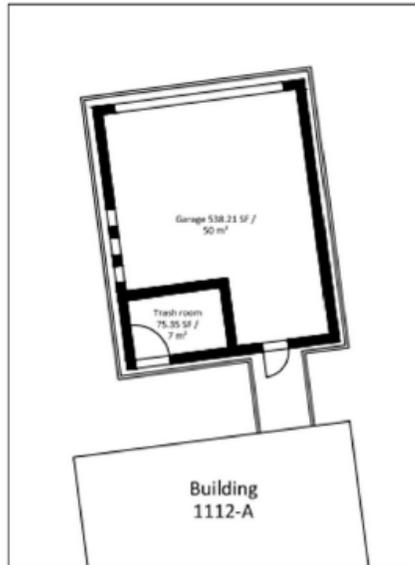
1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION RAMSTEIN AIR BASE RAMSTEIN AIR BASE SITE 1 GERMANY		4. PROJECT TITLE: REPLACE DUPLEX GARAGES AT GOQs
5. PROGRAM ELEMENT 88741F	6. CATEGORY CODE 711-161	7. PROJECT NUMBER TYFR214129
		8. PROJECT COST (\$000) \$1,400

Design detached duplex Garage at GOQ 1013



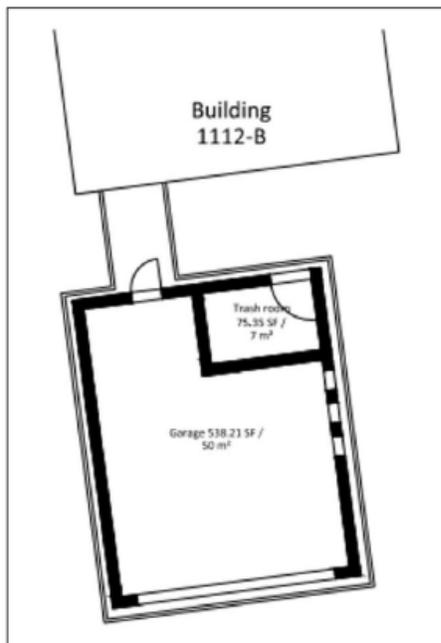
1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION RAMSTEIN AIR BASE RAMSTEIN AIR BASE SITE 1 GERMANY		4. PROJECT TITLE: REPLACE DUPLEX GARAGES AT GOQs
5. PROGRAM ELEMENT 88741F	6. CATEGORY CODE 711-161	7. PROJECT NUMBER TYFR214129
		8. PROJECT COST (\$000) \$1,400

Design detached duplex Garage at GOQ 1112A



1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA	2. DATE FEBRUARY 2024
3. INSTALLATION AND LOCATION RAMSTEIN AIR BASE RAMSTEIN AIR BASE SITE 1 GERMANY		4. PROJECT TITLE: REPLACE DUPLEX GARAGES AT GOQs
5. PROGRAM ELEMENT 88741F	6. CATEGORY CODE 711-161	7. PROJECT NUMBER TYFR214129
		8. PROJECT COST (\$000) \$1,400

Design detached duplex Garage at GOQ 1112B



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CONSTRUCTION IMPROVEMENTS

Budget Request (\$ in Thousands)

FY 2025 Budget Request	\$209,242
FY 2024 Budget Request	\$229,282

Purpose and Scope

The Air Force is expected to have approximately 15,150 owned units at the end of FY 2025. The average age of housing units in the Air Force's inventory is close to 30 years.

The Air Force developed the "whole house" revitalization concept for construction improvement projects. Whole house is the combination of required maintenance and repair together with improvements to bring the unit to contemporary standards. In addition, we are looking beyond the house to the entire housing area in our comprehensive plan. Our "whole neighborhood" concept includes the development of supporting housing infrastructure requirements, neighborhood vehicular and pedestrian circulation concepts to consider siting, density, landscaping, parking, playgrounds, recreation areas and utilities, in addition to the housing unit itself. The Air Force has gathered data on the construction improvement projects to detail past projects on these units and any future work being programmed within a three year period. This information is provided as part of this submittal.

Budget Request Summary

Authorization is requested for:

- (1) Appropriation of two Family Housing Improvement projects at Yokota AB, Japan, (\$65,242,000) in FY 2025.
- (2) Appropriation of two MHPI Restructures (\$144,000,000) in FY 2025.

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA (computer generated)			2. DATE FEBRUARY 2024
3. INSTALLATION, SITE AND LOCATION YOKOTA AIR BASE JAPAN		4. PROJECT TITLE IMPROVE FAMILY HOUSING PHASE 8B (19 UN)		
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER ZNRE194318	8. PROJECT COST (\$000) 26,242	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES				15,900
FAMILY HOUSING APPROPRIATED FY50-69	UN	19	836,839	(15,900)
SUPPORTING FACILITIES				7,392
UTILITIES	LS			(6,320)
SITE IMPROVEMENTS	LS			(545)
ENVIROMENTAL REMEDIATION	LS			(527)
SUBTOTAL				23,292
CONTINGENCY (5.0%)				1,165
TOTAL CONTRACT COST				24,457
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)				1,785
TOTAL REQUEST				26,242
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(0)
<p>10. Description of Proposed Construction: Provides whole house interior and exterior modernization, renovation and repair of eighteen (18) housing units at Yokota Air Base (Senior Non-Commissioned Officer three-bedroom units and one (1) General Officer four-bedroom unit). The work includes, but is not limited to, providing all labor, materials, transportation, and performing all work necessary for the improvements of the family housing units to meet current codes and standards. Modernizes finishes in each unit's rooms including, but not limited to, the kitchen, bathroom, living room, dining, laundry, bedrooms, family rooms and storage rooms. Replaces roofing, windows, doors, and the General Officer Quarter garage door with energy efficient products. Provides insulation in perimeter walls and roofs. The General Officer Quarter patio cover and structure requires painting and new translucent cover. The General Officer Quarter requires cybersecurity and exterior lighting. Provides lifecycle replacement of domestic water and sanitary plumbing for all 19 units. Provides each unit with hard wired smoke alarms and fire sprinklers to meet Unified Facilities Criteria 3-600-01 Fire Protection and the International Residential Criteria 3-600-01 Fire Protection and the International Residential Code. Provides lifecycle replacement of mechanical systems to each unit, supplying energy efficient heating and cooling.</p> <p>The modernization includes the construction and addition to the eighteen (18) Senior Non-Commissioned Officer units to incorporate family rooms, laundry rooms, secondary dining, interior storage, and exterior storage to meet the</p>				

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5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER ZNRE194318	8. PROJECT COST (\$000) 26,242
<p>functional requirements set for the US Air Force Family Housing Guide. The family rooms will include a new heating, ventilation, and air conditioning system. The exterior modernization includes the construction of a new patio cover for each unit to protect from sun and rain exposure and an addition to provide exterior storage for the General Officer Quarter unit. The project will include demolition and removal of the fireplace in the family room, including patch and repair of roof. The project includes the paint and repair of each trash enclosure supporting these housing units (Buildings 1270, 1272, 3234, and 3236).</p> <p>The project provides upgrade to the electrical system to meet code, providing safe and adequate housing. The environmental work includes remediation testing, demolition, disposal, and abatement required for asbestos, lead and other present hazardous materials. The project will include all necessary site electrical, site mechanical, telecommunications, landscape, resurface of pavement, replacement of fence and pavement as needed for utility upgrades, upgrading the sanitary sewer line and water to each building and all necessary supporting work to provide a complete and usable facility. Demo and replace sidewalks and parking to meet requirements for parking stalls and Americans with Disabilities Act ramps at entrance to parking lots as required by Unified Facilities Criteria 3-201-01 Civil Engineering. Replace sewer and water laterals back to the main lines replacing water meters and valves. Verify and repair radon mitigation systems as necessary. Demo unused mechanical buildings, repair and repaint any mechanical buildings that will be used and remain. Verify transformer capacity and upgrade transformer and replace secondary feeders to the unit as necessary. Inspect and repair of exterior and interior cracks. Replace rangehood and ceiling fans.</p> <p>The overall facility improvement shall be permanent construction and designed to meet current Air Force Family Housing Standards and be in accordance with the Department of Defense Unified Facilities Criteria 1-200-01, Unified Facilities Criteria 4-711-01 Family Housing, Unified Facilities Criteria 3-600-01 Fire Protection Engineering for Facilities, and other latest applicable Department of Defense Unified Facilities Criteria. The project should comply with Department of Defense anti-terrorism/force protection requirements per Unified Facility Criteria 4-010-01.</p> <p>Air Conditioning: 125 Tons</p>			
11. Requirement: 19 UN Adequate: 0 UN Substandard: 0 UN			

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE FEBRUARY 2024
3. INSTALLATION, SITE AND LOCATION YOKOTA AIR BASE JAPAN		4. PROJECT TITLE IMPROVE FAMILY HOUSING PHASE 8B (19 UN)	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER ZNRE194318	8. PROJECT COST (\$000) 26,242
<p>PROJECT: IMPROVE FAMILY HOUSING PHASE 8B (19 UN)</p> <p>REQUIREMENT: The project is required to provide safe and efficient housing for Military members and their families stationed at Yokota AB. This project is programmed in accordance with the 2017 Housing Community Profile (HCP) and Family Housing Master Plan. This is not a tenant or supporting service requirement.</p> <p>CURRENT SITUATION: This family housing at Yokota AB was constructed in 1975 and 1992 and requires major renovation and repair to deterioration resulting from age and heavy use. The existing housing units have Facility Condition Index scores ranging from 64 to 72 and are in need of lifecycle updates to meet current life safety codes for electrical, mechanical, seismic, fire safety and energy efficiency. The housing units have had no major upgrades since construction, and do not meet the functional and spatial needs of today's families or provide a modern home environment. The kitchens are poorly configured with inadequate storage, cabinet space and countertop area. The plumbing and lighting fixtures are deteriorated. The units have inadequate family room area, secondary dining, and storage, according to the latest guidance in US Air Force Family Housing Guide, August 2004. The electrical systems do not meet current construction codes under the National Electric Code, including missing ground fault circuit interrupter protection in bathrooms, kitchens, and exterior circuits. The fire detection systems do not meet current construction codes, under Unified Facilities Criteria 3-600-01 Fire Protection Engineering, and fire suppression systems do not exist. The flooring, windows, and roofing require replacement due to deterioration and abatement of asbestos and lead is required to provide a safe environment.</p> <p>IMPACT IF NOT PROVIDED: Without this project, Yokota Air Base's family housing units will continue to deteriorate, resulting in inefficient operations, excessive maintenance and repair costs to the Air Force. The units will continue to lack the appropriate functional spaces required in the US Air Force Family Housing Guide.</p> <p>If the situation remains status quo, the repair of these units will continue to be accomplished in a costly and piecemeal fashion with little or no improvement in living quality, resulting in low morale. Retention problems are likely if conditions are permitted to continue, directly impacting overall mission for supporting Military members and their families while stationed at Yokota Air Base.</p> <p>ADDITIONAL: This project meets the scope/criteria specified in Air Force</p>			

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5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER ZNRE194318	8. PROJECT COST (\$000) 26,242
<p>Manual 32- 1084, Facility Requirements and the US Air Force Family Housing Guide, August 2004. The overall facility improvement shall be compatible with applicable Department of Defense Air Force, and Yokota Base design standards. In addition, local materials and construction techniques shall be used where cost effective, and environmental (asbestos/lead) sampling, testing, remediation and all other related work are programmed into the project to provide complete and usable facilities. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, and all applicable federal and host nation requirements, but will not employ a standard facility design because there is no Air Force standard facility design for these units, and there is no applicable standard design from United States Army Corps of Engineers. A preliminary analysis of reasonable alternatives for accomplishing this project (status quo, renovation, addition/alteration, new construction) indicated that renovation is the most cost-effective option to meet mission requirements. A formal economic analysis is in progress. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facility Criteria 1-200-02. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, whenever life-cycle cost effective is selected as the reason any requirement of Unified Facility Criteria 1-200-02 is partially compliant or not applicable. This project does not fall within or partly within the 100-year flood plain. This facility is sited in accordance with the Installation Development Plan and is within a compatible land use area. Supporting facility costs exceed 25% of primary facility cost due to the extensive scope in utility upgrades and replacement. This project is not eligible for Host Nation funding.</p> <p>FOREIGN CURRENCY EXCHANGE RATES FY24 Budget Rate Used: YEN 139.1635</p> <p>BY-2, BY-1, and Future Unaccompanied Housing Restoration and Modernization Conducted: None</p> <p>Base Civil Engineer: (011) 81-3117-55-7215; DSN: 225-7215</p>			

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3. INSTALLATION, SITE AND LOCATION YOKOTA AIR BASE JAPAN		4. PROJECT TITLE IMPROVE FAMILY HOUSING PHASE 8B (19 UN)	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER ZNRE194318	8. PROJECT COST (\$000) 26,242
12. SUPPLEMENTAL DATA: a. Estimated Design Data: (1) Status: (a) Type of Design Design-Bid-Build (b) Date Design Started 24-MAR-23 (c) Parametric Cost Estimates Used to develop costs YES (d) Percent Complete as of 01 JAN 2024 65% (e) Date 35% Designed 29-SEP-23 (f) Date Design Complete 06-MAY-24 (g) Energy Study/Life-Cycle analysis was/will be performed YES (2) Basis: (a) Standard or Definitive Design NO (b) Where Design Was Most Recently Used N/A (3) Total Cost (c) = (a) + (b) or (d) + (e) (\$000) (a) Production of Plans and Specifications 3,183 (b) All Other Design Costs 1,591 (c) Total 4,774 (d) Contract 3,978 (e) In-house 796 (4) Construction Contract Award 25-MAY (5) Construction Start 25-AUG (6) Construction Completion 28-JAN b. Equipment associated with this project provided from other appropriations: None			

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3. INSTALLATION, SITE AND LOCATION YOKOTA AIR BASE JAPAN		4. PROJECT TITLE IMPROVE FAMILY HOUSING PHASE 8B (19 UN)	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER ZNRE194318	8. PROJECT COST (\$000) 26,242

FACILITY LISTING

Neighborhood	Bldg#	Unit Type/Fac. Name	Street #	Street Name	Config	Unit Cnt	Blt By	Yr Blt	Last Ren.	Status	Bed	Bath	GSF	Adequate	Inadequate	SCI	Decision
West Area	1287	3GAW	1287	Godfrey A	Townhom	6	GOJ	1992		Existing	3	3, 3/2, 3/2	1562	D	6	64	Improve (FHCON)
West Area	1290	3GAW	1290	Godfrey A	Townhom	6	GOJ	1992		Existing	3	3, 3/2, 3/2	1562	D	6	64	Improve (FHCON)
West Area	1291	3GAW	1291	Godfrey A	Townhom	6	GOJ	1992		Existing	3	3, 3/2, 3/2	1562	D	6	64	Improve (FHCON)
Kenney C	691	GOQ-691	691	Kenney C	Single Fam	1	GOJ	1975	2007	Existing	4	3, 3/2	4030	D	3	72	Sustain

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3. INSTALLATION, SITE AND LOCATION YOKOTA AIR BASE JAPAN		4. PROJECT TITLE IMPROVE FAMILY HOUSING PAIP 9, PHASE 2 (32 UN)		
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER ZNRE224305P2	8. PROJECT COST (\$000) 39,000	
9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT	COST (\$000)
PRIMARY FACILITIES				29,920
FAMILY HOUSING APPROPRIATED FY50-69	UN	32	935,000	(29,920)
SUPPORTING FACILITIES				4,709
SITE PREPARATION	LS			(824)
UTILITIES	LS			(989)
SITE IMPROVEMENTS	LS			(1,310)
MECHANICAL SYSTEM IMPROVEMENTS	LS			(768)
DEMOLITION	SM	100	5,882	(588)
ENVIROMENTAL REMEDIATION	LS			(230)
SUBTOTAL				34,629
CONTINGENCY (5.0%)				1,731
TOTAL CONTRACT COST				36,360
SUPERVISION, INSPECTION AND OVERHEAD (7.3%)				2,654
TOTAL REQUEST				39,014
TOTAL REQUEST (ROUNDED)				39,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(0)
10. Description of Proposed Construction: Provides whole house interior and exterior modernization, renovation and repair of thirty-two (32) housing units at Yokota Air Base (O-1 to O-5 three-bedroom military family housing townhouse units). The work includes but is not limited to, providing all labor, materials, transportation, and performing all necessary work for the improvements of the family housing units to meet current codes and standards. The interior renovation includes modernizing finishes in kitchen, bathrooms, living room, bedrooms and family rooms, replace windows with American Society for Testing and Materials (ASTM) F2090 window fall protection and doors, lifecycle replacement of domestic water and sanitary plumbing, bring units up to Life Health Safety code by installing hard wired smoke alarms and fire sprinklers. The modernization includes the construction and expansion of the existing floorplan to provide a family room and secondary dining space consistent with the Air Force family housing design standards. The exterior modernization includes the construction of awnings, exterior storage and roof replacement. The project will include the lifecycle replacement of mechanical systems in supporting mechanical buildings, to provide energy efficient heating and cooling. The project will demolish the two supporting mechanical				

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5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER ZNRE224305P2	8. PROJECT COST(\$000) 39,000
<p>buildings (Building 1035 and 1059) and all utility lines all the way to main line. The environmental remediation work includes testing, abatement, demolition, and disposal of asbestos, lead and any other hazard material. The project will include all necessary utilities, site electrical, site mechanical, natural gas lines, landscape, pavement, electrical upgrades, environmental remediation, site work, and all necessary supporting work for a complete, safe, adequate and usable facility.</p> <p>The project provides upgrade and modernize lighting and plumbing fixtures to meet latest code requirements on the unit interior and exterior. Replacement of water, sewer and storm utilities to the mains. The project will also include parking lot improvements and Americans with Disabilities Act ramps at entrance to parking lots. Verify and repair radon mitigation systems as necessary. Repair and repaint any mechanical buildings that will be used and remain. Verify transformer capacity and upgrade transformer and replace secondary feeders to the unit as necessary. Repair and repaint trash enclosures. Inspect and repair of exterior and interior cracks.</p> <p>The overall facility improvement shall be permanent and designed to meet the current Air Force Family Housing Standard and be in accordance with Unified Facilities Criteria 4-711-01 Family Housing, Unified Facilities Criteria 3-600-01 Fire Protection Engineering for Facilities and other latest applicable Department of Defense Unified Facilities Criteria.</p> <p>Air Conditioning: 208 Tons</p>			
<p>11. Requirement: 32 UN Adequate: 0 UN Substandard: 0 UN</p> <p>PROJECT: Improve Family Housing Post Acquisition Improvement Program (PAIP) 9, Phase 2 (32 Units)</p> <p>REQUIREMENT: The project is required to provide safe and efficient housing for Military members and their families stationed at Yokota AB. The existing housing units have Facility Condition Index scores ranging from 68 to 71 (Poor Condition), and are in need of lifecycle repair/replacement of basic utilities, mechanical systems, hardware and finishes. These housing units must be upgraded to meet current life safety codes for electrical, mechanical, seismic, fire safety and energy efficiency. This project is programmed in accordance with the 2017 Housing Community Profile (HCP) and Family Housing Master Plan. This is not a tenant or supporting service requirement.</p> <p>CURRENT SITUATION: This project upgrades and modernizes housing which was constructed in the early 1990s. These housing units require major</p>			

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3. INSTALLATION, SITE AND LOCATION YOKOTA AIR BASE JAPAN		4. PROJECT TITLE IMPROVE FAMILY HOUSING PAIP 9, PHASE 2 (32 UN)	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER ZNRE224305P2	8. PROJECT COST (\$000) 39,000
<p>renovation and repair to correct deterioration resulting from age and heavy use. They have had no major upgrades since construction, and do not meet the needs of today's families, nor do they provide a modern home environment. The kitchen area does not provide adequate storage, cabinet space or countertop area, and are not functionally arranged. The plumbing and lighting fixtures are deteriorated. The electrical systems do not meet modern construction codes. There is no ground fault circuit interrupter protection provided for bathrooms, kitchens, and exterior circuits. The fire detection systems do not meet modern construction codes, and fire suppression systems are non-existent. The flooring, windows, and roofing require replacement. The units have inadequate living space and storage. The playgrounds, parking areas, and landscaping are inadequate or nonexistent.</p> <p>IMPACT IF NOT PROVIDED: These units will continue to deteriorate resulting in increasing operations, maintenance and repair costs to the Air Force. Without this project, the repair of these units will be accomplished in a costly and piecemeal fashion with little or no improvement in living quality. Low morale and retention problems will result if conditions are permitted to continue.</p> <p>ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, Facilities Requirements, Air Force Instruction 32-6000, Housing Management and Unified Facilities Criteria 4-711-01, Family Housing. This design shall conform to criteria established in the Air Force Corporate Facilities Standards, the Installation Facilities Standards, but will not employ a standard facility design because there is no Air Force standard facility design for this project, and there is no applicable standard design from the United States Army Corps of Engineers. All reasonable alternatives were considered during the development of this project to include status quo, new construction, and renovation. An approved Economic Analysis determined renovation as the most cost effective option to meet this requirement. Sustainable principles, to include life-cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Unified Facilities Criteria 1-200-02, High Performance and Sustainable Building Requirements. This includes preparation of a life-cycle cost analysis for energy consuming systems, renewable energy generating systems, or when life-cycle cost effective is selected as the reason any requirement of Unified Facilities Criteria 1-200-02 is partially compliant or not applicable. This project does not fall or partly within a 100-year flood plain. Facilities are sited in accordance with the Installation Development</p>			

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3. INSTALLATION, SITE AND LOCATION YOKOTA AIR BASE JAPAN		4. PROJECT TITLE IMPROVE FAMILY HOUSING PAIP 9, PHASE 2 (32 UN)	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER ZNRE224305P2	8. PROJECT COST (\$000) 39,000
<p>Plan and are within a compatible land use area. This project is not eligible for Host Nation funding. Environmental Impact Analysis Process (EIAP): The action described for this project is not a major Federal action that will significantly harm the environment and/or the resources of the foreign nation per Department of Defense Directive (DoDD) 6050.7. Therefore, in accordance with DoDD 6050.7, para E2.2.1.1, an environmental review or study is not required.</p> <p>DEMOLITION: 100 SM = 1,076 Square Feet</p> <p>FOREIGN CURRENCY EXCHANGE RATES FY24 Budget Rate Used: YEN 139.1635</p> <p>BY-2, BY-1, and Future Unaccompanied Housing Restoration and Modernization Conducted: None</p> <p>Base Civil Engineer: (011) 81-3117-55-7215; DSN: 225-7215</p>			

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5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER ZNRE224305P2	8. PROJECT COST (\$000) 39,000
12. SUPPLEMENTAL DATA: a. Estimated Design Data: (1) Status: (a) Type of Design Design-Bid-Build (b) Date Design Started 24-MAR-23 (c) Parametric Cost Estimates Used to develop costs YES (d) Percent Complete as of 01 JAN 2024 65% (e) Date 35% Designed 29-SEP-23 (f) Date Design Complete 06-MAY-24 (g) Energy Study/Life-Cycle analysis was/will be performed YES (2) Basis: (a) Standard or Definitive Design NO (b) Where Design Was Most Recently Used N/A (3) Total Cost (c) = (a) + (b) or (d) + (e) (\$000) (a) Production of Plans and Specifications 0 (b) All Other Design Costs 5,794 (c) Total 5,794 (d) Contract 0 (e) In-house 0 (4) Construction Contract Award 25-JUL (5) Construction Start 25-AUG (6) Construction Completion 27-AUG b. Equipment associated with this project provided from other appropriations: None			

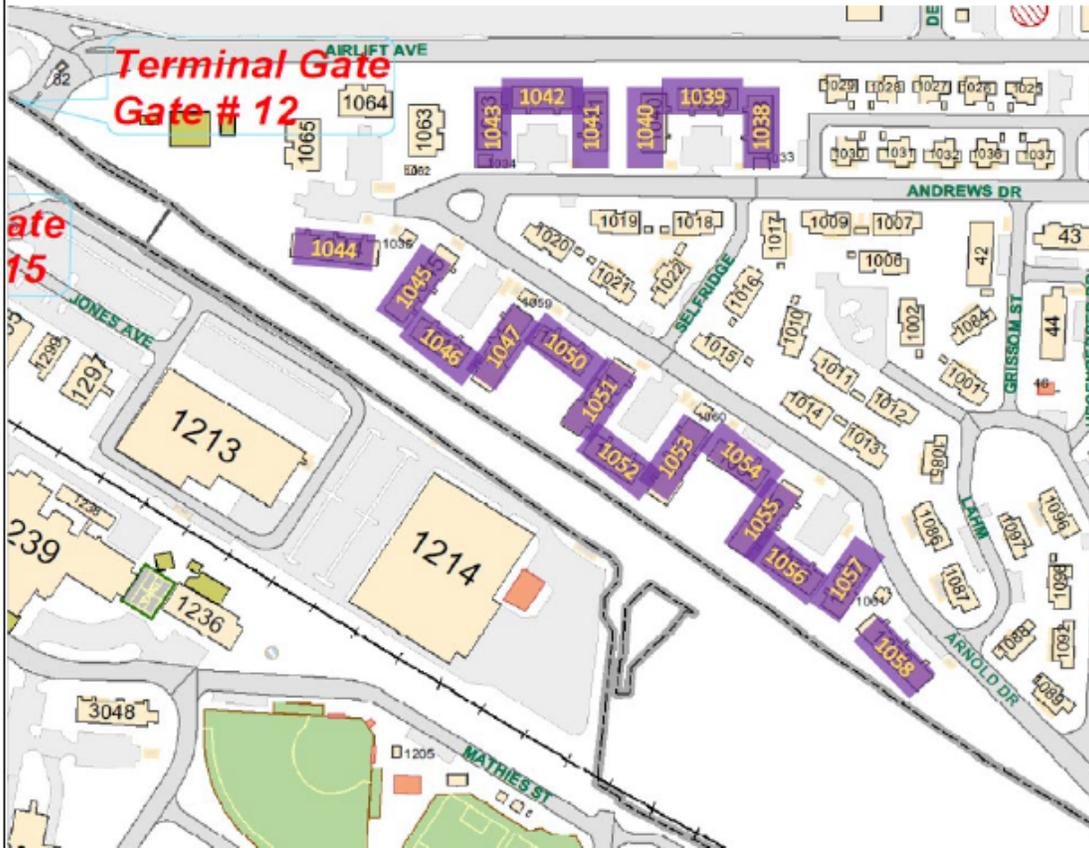
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3. INSTALLATION, SITE AND LOCATION YOKOTA AIR BASE JAPAN		4. PROJECT TITLE IMPROVE FAMILY HOUSING PAIP 9, PHASE 2 (32 UN)	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER ZNRE224305P2	8. PROJECT COST (\$000) 39,000

FACILITY LISTING

Neighborhood	Bldg#	Unit Type/ Fac. Name	Street	Street Name	Config	Unit Cnt	Bl By	Yr Bt	Last Ren.	Status	Bed	Bath	GSF	Adequacy	Adq	BCI	Decision
ZNRE224305P2 IMPROVE FAMILY HOUSING, YOKOTA AB PAIP 9 PHASE 2																	
North Area	1044	3GAN	1044	Andrews Drive	Townhome	6	GOI	1994	Existing	3	1, 1/2, 1/2	1500	0	6	67	Improve (FHCON)	
North Area	1045	3GAN	1045	Arnold Drive	Townhome	6	GOI	1994	Existing	3	1, 1/2, 1/2	1500	0	6	67	Improve (FHCON)	
North Area	1046	3GAN	1046	Arnold Drive	Townhome	4	GOI	1994	Existing	3	1, 1/2, 1/2	1500	0	4	69	Improve (FHCON)	
North Area	1047	3GAN	1047	Arnold Drive	Townhome	6	GOI	1994	Existing	3	1, 1/2, 1/2	1500	0	6	67	Improve (FHCON)	
North Area	1050	3GAN	1050	Arnold Drive	Townhome	4	GOI	1994	Existing	3	1, 1/2, 1/2	1500	0	4	69	Improve (FHCON)	
North Area	1051	3GAN	1051	Arnold Drive	Townhome	6	GOI	1994	Existing	3	1, 1/2, 1/2	1500	0	6	67	Improve (FHCON)	
North Area	1035	Mechanical Building				1	GOI	1994	Existing	0		548	0	1	61	Improve (FHCON)	
North Area	1059	Mechanical Building				1	GOI	1998	Existing	0		525	0	1	71	Improve (FHCON)	

1. COMPONENT AIR FORCE	FY 2025 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE FEBRUARY 2024
3. INSTALLATION, SITE AND LOCATION YOKOTA AIR BASE JAPAN		4. PROJECT TITLE IMPROVE FAMILY HOUSING PAIP 9, PHASE 2 (32 UN)	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE 711-143	7. PROJECT NUMBER ZNRE224305P2	8. PROJECT COST (\$000) 39,000

SITE MAP



1. COMPONENT Air Force	FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE	
3. INSTALLATION, SITE AND LOCATION Joint Base Elmendorf-Richardson Anchorage/AK			4. PROJECT TITLE JBER III MHPI Project Restructure		
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE N/A	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000) 120,000		
9. COST ESTIMATES					
ITEM		U/M	QTY	UNIT COST	COST (\$000)
PRIMARY FACILITIES					120,000
Privatized Housing Inventory		Un	1,240	96.774	120,000
SUPPORTING FACILITIES					0
SUBTOTAL					120,000
TOTAL CONTRACT COST					120,000
TOTAL REQUEST					120,000
10. Description of Proposed Work: Complete a financial restructure of the JBER III military housing privatization initiative (MHPI) project by utilizing FY25 Department of the Air Force (DAF) Budget Authority to modify the terms of the JBER III MHPI project's Government Direct Loan (GDL) and/or to provide a Government Equity Contribution to the JBER III MHPI project to ensure adequate funding available for sustainment needs (e.g., roofing, Heating Ventilation and Cooling (HVAC) units, repairs, etc.) and reinvestment needs (e.g., unit replacements, whole-house renovations).					
11. Requirement: 1,240 UN PROJECT: JBER III MHPI Project Restructure REQUIREMENT: From the time of project closing in 2011 when the housing was originally privatized, this project is required to provide 1,240 modern and					

1. COMPONENT Air Force	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION Joint Base Elmendorf-Richardson Anchorage/AK		4. PROJECT TITLE JBER III MHPI Project Restructure	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE N/A	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000) 120,000
<p>efficient housing units for military members and their dependents stationed at Joint Base Elmendorf-Richardson (Phase III) through the end of the 50-year lease term.</p> <p>CURRENT SITUATION: The DAF currently projects sustainment funding shortfalls of \$31M over the next 10 years, including funds for HVAC, appliance replacements, exterior maintenance, roofing, and infrastructure. Additionally, there is forecasted to be a \$376M shortfall of the projected funds required for mid-term reinvestment at the project. Funding shortfalls are driven factors that are beyond the privatized housing owner's control, including lower basic allowance for housing growth and higher sustainment and reinvestment costs due to inflation impacts and current market conditions.</p> <p>IMPACT IF NOT PROVIDED: Project housing at the JBER III MHPI project will continue to further deteriorate impacting the quality of life for 1,240 Airmen living on Joint Base Elmendorf-Richardson (Phase III). Additionally, the ongoing degradation of the units could result in increased life/health/safety issues at project units.</p> <p>ADDITIONAL: None</p>			
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Restructure Schedule:</p> <ul style="list-style-type: none"> (1) Initial Restructure discussions w/ Project Owner: Nov 22 (completed) (2) Initial Project Owner restructure proposal: Feb 23 (completed) (3) AFCEC review proposal/draft counter: Feb 23 (completed) (4) Ongoing negotiations w/ Project Owner: Jul 23 (completed) (5) Project Owner submit revised proposal: Aug 23 (completed) (6) DAF evaluate proposal/draft Scoring Package: Mar 24 (7) OSD/OMB Vector: Apr-Jun 24 (8) Ongoing Negotiations with Project Owner w/OSD Feedback: Jul-Aug 24 (9) Final Proposal from Project Owner: Sep 24 (10) Draft Restructure Approval Package & Submit to OSD/OMB: Oct 24 (11) OSD/OMB Review and Approval: Nov 24-Feb 25 (12) Draft Restructure Amendments: Mar-Apr 25 (13) Congressional Notification/Funds Transfer: May-Jun 25 (14) Restructure Executed: Aug 25 			

1. COMPONENT Air Force		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE		
3. INSTALLATION, SITE AND LOCATION Joint Base San Antonio-Lackland San Antonio/TX				4. PROJECT TITLE Lackland MHPI Project Restructure			
5. PROGRAM ELEMENT 88742F		6. CATEGORY CODE N/A	7. RPSUID/PROJECT NUMBER		8. PROJECT COST (\$000) 24,000		
9. COST ESTIMATES							
ITEM				U/M	QTY	UNIT COST	COST (\$000)
PRIMARY FACILITIES							24,000
Privatized Housing Inventory				Un	885	27.119	24,000
SUPPORTING FACILITIES							0
SUBTOTAL							24,000
TOTAL CONTRACT COST							24,000
TOTAL REQUEST							24,000
10. Description of Proposed Work: Complete a financial restructure of the Lackland military housing privatization initiative (MHPI) project by utilizing FY25 Department of the Air Force (DAF) Budget Authority to modify the terms of the Lackland MHPI project's Government Direct Loan (GDL) and/or to provide a Government Equity Contribution to the Lackland MHPI project to ensure adequate funding available for sustainment needs (e.g., roofing, Heating Ventilation and Cooling (HVAC) units, repairs, etc.) and reinvestment needs (e.g., whole-house renovations).							
11. Requirement: 885 UN PROJECT: Lackland MHPI Project Restructure REQUIREMENT: The housing at Joint Base San Antonio-Lackland was originally privatized through a two-phase process with phase 1 closing in 1998 and							

1. COMPONENT Air Force	FY 2025 MILITARY CONSTRUCTION PROJECT DATA		2. DATE
3. INSTALLATION, SITE AND LOCATION Joint Base San Antonio-Lackland San Antonio/TX		4. PROJECT TITLE Lackland MHPI Project Restructure	
5. PROGRAM ELEMENT 88742F	6. CATEGORY CODE N/A	7. RPSUID/PROJECT NUMBER	8. PROJECT COST (\$000) 24,000
<p>phase 2 closing in 2008. This project is required to provide 885 modern and efficient housing units for military members and their dependents stationed at Joint Base San Antonio-Lackland through the end of the 50-year lease term.</p> <p>CURRENT SITUATION: The DAF currently projects sustainment funding shortfalls of \$24M over the next 10 years, including funds for HVAC, appliance replacements, exterior maintenance, roofing, and infrastructure. Additionally, there is forecasted to be a \$23M shortfall of the projected funds required for mid-term reinvestment at the project. Funding shortfalls are driven by factors that are beyond the privatized housing owner's control, including lower occupancy, higher operating costs, and higher sustainment and reinvestment costs due to inflation impacts and current market conditions.</p> <p>IMPACT IF NOT PROVIDED: Project housing at the Lackland MHPI project will continue to further deteriorate impacting the quality of life for 885 Airmen living on Joint Base San Antonio - Lackland. Additionally, the ongoing degradation of the units could result in increased life/health/safety issues at project units.</p> <p>ADDITIONAL: None</p>			
<p>12. SUPPLEMENTAL DATA:</p> <p>a. Restructure Schedule:</p> <ol style="list-style-type: none"> (1) Initial Restructure discussions w/ Project Owner: Feb 23 (completed) (2) Initial Project Owner restructure proposal: Dec 23 (3) AFCEC review proposal/draft counter: Jan 24 (4) Ongoing negotiations w/ Project Owner: Jan 24 (5) Project Owner submit revised proposal: Feb 24 (6) DAF evaluate proposal/draft Scoring Package: Mar 24 (7) OSD/OMB Vector: Apr-Aug 24 (8) Ongoing Negotiations with Project Owner w/OSD Feedback: Sep-Oct 24 (9) Final Proposal from Project Owner: Nov 24 (10) Draft Restructure Approval Package & Submit to OSD/OMB: Jan 25 (11) OSD/OMB Review and Approval: Feb-Apr 25 (12) Draft Restructure Amendments: May-Jun 25 (13) Congressional Notification/Funds Transfer: Jul 25 (14) Restructure Executed: Aug 25 			

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PLANNING AND DESIGN

Budget Request (\$ in Thousands)

FY 2025 Budget Request	\$6,557
FY 2024 Budget Request	\$7,815

Purpose and Scope

This program provides for preliminary studies to develop additional family housing facilities, on time multi-phase design, and housing community profile developments; studies for site adaptation and determination of type and design of units; and working drawings, specifications, estimates, project planning reports and final design drawings of facility housing construction projects. This includes the use of architectural and engineering services in connection with any family housing new construction or construction improvement program.

Budget Request Summary

Authorization is requested for:

- (1) Planning and design for future year housing programs.
- (2) FY 2025 Authorization and Appropriation of \$6,557,000 to fund this effort as outlined in the following exhibit:

A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Continuing Appropriations and Other Extensions, 2024 (Public Law 118-22). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

1. COMPONENT AIR FORCE		FY 2025 MILITARY CONSTRUCTION PROJECT DATA			2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES			4. PROJECT TITLE FAMILY HOUSING PLANNING AND DESIGN		
5. PROGRAM ELEMENT 88742	6. CATEGORY CODE 711-000	7. PROJECT NUMBER PAYZ714FNA	8. PROJECT COST (\$000) 6,557		
9. COST ESTIMATE					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
FAMILY HOUSING PLANNING AND DESIGN		LS			6,557
SUBTOTAL					6,557
TOTAL CONTRACT COST					6,557
TOTAL REQUEST					6,557
<p>10. <u>DESCRIPTION OF PROPOSED CONSTRUCTION</u>: Architect-engineer services, survey, fees, etc., in connection with advance planning and design of family housing dwelling units and properties included in or proposed for the Air Force Family Housing Construction Account.</p> <p>11. <u>PROJECT</u>: This request is for an authorization and appropriation of \$6.557 million to provide planning and design costs in connection with family housing new construction or construction improvements programs.</p> <p><u>REQUIREMENT</u>: The funds requested are necessary to procure architect-engineer services to make site and utility investigations; one time multi-phase design, and housing community profiles (HCP) developments; and for the preparation of design and specifications of advance plans for future year family housing programs in connection with any family housing new construction or construction improvements programs.</p> <p><u>IMPACT IF NOT PROVIDED</u>: The funds requested are necessary to support the development of the housing community profile planning documents and to support the new construction and construction improvement programs. Without the requested funds, housing community profiles cannot be developed and the new construction and construction improvement programs cannot be designed and constructed.</p>					

Operations, Utilities and Maintenance Summary
(Excludes Leasing and Privatization)

Budget Request (\$ in Thousands)

FY 2025 Budget Request	\$287,464
FY 2024 President's Budget Request	\$277,440
FY 2024 Annualized Continuing Resolution (CR) Adjustments	\$50,836
*Total FY 2024 PB Request with Annualized CR Adjustments	\$365,222

Purpose and Scope

Provides operations and maintenance resources to fund property management, utilities, and maintenance of Air Force owned units. The Air Force requests essential resources to provide military families with housing either in the private market through assistance from a housing office, or by providing government housing. The Air Force's Military Family Housing Operation and Maintenance program emphasizes the following goals:

- * Identify suitable, affordable housing for military members. Where shortages exist, identify alternative solutions, to include privatization, new construction or leased housing.
- * Reduce utility consumption to increase energy efficiency and conservation.
- * Provide government appliances and furniture as required.
- * Invest wisely in maintenance and repairs to sustain the existing adequate housing inventory worldwide. The top priorities are life, safety, and health issues and divestiture of surplus housing.

*A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Continuing Appropriations and Other Extensions, 2024 (Public Law 118-22). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

a. Operations. This portion of the program provides for operating expenses in the following sub-accounts:

(1) Management. Includes installation-level housing management office operations. It supports the housing referral and relocation program to assist military families in locating suitable housing and implements the Fair Housing Act. Management efforts at privatized installations include duties that are inherently governmental such as asset management, housing support services, and fiscal oversight. It supports the AF Family Housing Master Plan (FHMP) planning efforts.

(2) Services. Includes basic support services comprising refuse collection and disposal; fire and police protection; custodial services; entomology and pest control; and snow removal and street cleaning. Privatized units do not receive funding from this account.

(3) Furnishings. Includes household appliances (primarily stoves and refrigerators) and furniture (in limited circumstances and mainly in overseas locations). It includes costs associated with procurement, management, and repairs of furnishings and appliance inventories.

(4) Miscellaneous. Includes payments to other Federal agencies or foreign governments (i.e., United States Coast Guard and United Kingdom) to operate housing units occupied by military personnel.

b. Utilities. Includes all purchased and base-produced heat, electricity, water, sewer, and gas commodities serving family housing. Residents purchase their own telephone, internet and cable TV service. Privatized housing units do not receive funding from this account.

c. Maintenance. Privatized housing units do not receive funding from this account.

Provides the following:

(1) Maintenance/Repair of Dwellings. Includes service calls, routine maintenance and repairs, and replacement of deteriorated facility components. Housing maintenance contracts are included in these costs.

(2) Exterior Utilities. Includes maintenance and repair of water, sewer, electrical, and gas lines and other utility distribution, collection, or service systems assigned to or supporting family housing areas.

(3) Other Real Property. Includes maintenance of grounds, common areas, roads, parking areas, and other property for the exclusive use of family housing occupants not included above.

(4) Alterations and Additions. Includes minor alterations to housing units or housing support facilities. Whole-house improvements with complex scopes are included in the construction program.

Operation and Maintenance FY 2025 Budget Request Summary - Highlights

The requested FY 2025 amount is \$287,464,000. This amount, together with estimated reimbursements of \$2,500,000 will fund the FY 2025 Operation and Maintenance program of \$289,964,000.

A summary of the budget request for FY 2025 is as follows (\$ in thousands):

<u>Operations Request</u>	<u>Utility Request</u>	<u>Maintenance Request</u>	<u>Total Direct Request</u>	<u>Reimbursement</u>	<u>Total Program</u>
\$110,486	\$49,955	\$127,023	\$287,464	\$2,500	\$289,964

Inventory and Funding Summary (FH-2)

USAF FY 2025 PB	Fiscal Year: 2025
Family Housing Operations and Maintenance, Summary	Command: USAF
Excludes Leased Units and Costs	Exhibit: FH-2
Worldwide Summary	

<u>Inventory Data (Units)</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>
Units in Being Beginning of Year	15,174	15,297	15,271
Units in Being at End of Year	15,297	15,271	15,152
Average Inventory for Year	15,236	15,284	15,212
Historic Units	96	96	96
Units Requiring FHO&M Funding			
a. Contiguous US	92	106	106
b. U.S. Overseas	0	0	0
c. Foreign	15,082	15,191	15,165
d. Worldwide	15,174	15,297	15,271

<u>Funding Requirements (\$000)</u>	<u>FY 2023</u>		<u>FY 2024</u>		<u>FY 2025</u>	
	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>
OPERATIONS (DIRECT)						
Management	81,281	5,335	68,023	4,451	71,384	4,693
Services	11,020	723	10,692	700	12,446	818
Furnishings	33,622	2,207	12,884	843	24,230	1,593
Miscellaneous	1,156	76	2,377	156	2,426	159
Sub-Total Direct Operations	127,079	8,341	93,976	6,149	110,486	7,263
Anticipated Reimbursements	322	21	322	21	322	21
Gross Obligations, Operations	127,401	8,362	94,298	6,170	110,808	7,284
UTILITIES (DIRECT)						
Direct Utilities	71,295	4,680	48,054	3,144	49,955	3,284
Utilities Anticipated Reimbursements	646	42	646	42	646	42
Gross Obligations, Utilities	71,941	4,722	48,700	3,186	50,601	3,326
MAINTENANCE (DIRECT)						
M&R Dwelling	106,576	6,995	116,453	7,619	109,240	7,181
M&R Ext. Utilities	6,196	407	6,771	443	6,351	418
M&R Other Real Property	9,914	651	10,833	709	10,162	668
Alter & Add	1,239	81	1,353	89	1,270	83
Sub-Total Direct Maintenance	123,925	8,134	135,410	8,860	127,023	8,350
Anticipated Reimbursements	1,532	101	1,532	100	1,532	101
Gross Obligations, Maintenance	125,457	8,235	136,942	8,960	128,555	8,451
GRAND TOTAL, FHO&M - Direct	322,299	21,154	277,440	18,152	287,464	18,898
Anticipated Reimbursements	2,500	164	2,500	164	2,500	164
GRAND TOTAL, FHO&M - TOA	324,799	21,319	279,940	18,316	289,964	19,062

USAF FY 2025 PB	Fiscal Year: 2025
Family Housing Operation and Maintenance, Summary	Command: USAF
Excludes Leased Units and Costs	Exhibit: FH-2
Contiguous US	

<u>Inventory Data (Units)</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>
Units in Being Beginning of Year	92	106	106
Units in Being at End of Year	106	106	106
Average Inventory for Year	99	106	106
Historic Units	96	96	96

<u>Funding Requirements (\$000)</u>	<u>FY 2023</u>		<u>FY 2024</u>		<u>FY 2025</u>	
	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>
OPERATIONS (DIRECT)						
Management	52,833	0	44,215	0	46,400	0
Services	110	0	107	0	124	0
Furnishings	672	0	258	0	485	0
Miscellaneous	335	0	689	0	704	0
Sub-Total Direct Operations	53,950	0	45,269	0	47,713	0
Anticipated Reimbursements	0	0	0	0	0	0
Gross Obligations, Operations	53,950	0	45,269	0	47,713	0
UTILITIES (DIRECT)						
Direct Utilities	352	0	481	0	493	0
Utilities Anticipated Reimbursements	0	0	0	0	0	0
Gross Obligations, Utilities	352	0	481	0	493	0
MAINTENANCE (DIRECT)						
M&R Dwelling	2,132	0	2,329	0	2,185	0
M&R Ext. Utilities	0	0	0	0	0	0
M&R Other Real Property	595	0	650	0	610	0
Alter & Add	62	0	68	0	64	0
Sub-Total Direct Maintenance	2,789	0	3,047	0	2,859	0
Maintenance Anticipated Reimbursements	0	0	0	0	0	0
Gross Obligations, Maintenance	2,789	0	3,047	0	2,859	0
GRAND TOTAL, FHO&M - Direct	57,091	0	48,797	0	51,065	0
Anticipated Reimbursements	0	0	0	0	0	0
GRAND TOTAL, FHO&M - TOA	57,091	0	48,797	0	51,065	0

USAF FY 2025 PB	Fiscal Year: 2025
Family Housing Operation and Maintenance, Summary	Command: USAF
Excludes Leased Units and Costs	Exhibit: FH-2
US Overseas	

<u>Inventory Data (Units)</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>
Units in Being Beginning of Year	0	0	0
Units in Being at End of Year	0	0	0
Average Inventory for Year	0	0	0
Historic Units	0	0	0

<u>Funding Requirements (\$000)</u>	<u>FY 2023</u>		<u>FY 2024</u>		<u>FY 2025</u>	
	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>
OPERATIONS (DIRECT)						
Management	1,626	0	1,360	0	1,428	0
Services	0	0	0	0	0	0
Furnishings	1,009	0	387	0	727	0
Miscellaneous	0	0	0	0	0	0
Sub-Total Direct Operations	2,635	0	1,747	0	2,155	0
Anticipated Reimbursements	0	0	0	0	0	0
Gross Obligations, Operations	2,635	0	1,747	0	2,155	0
UTILITIES (DIRECT)						
Direct Utilities	0	0	0	0	0	0
Utilities Anticipated Reimbursements	0	0	0	0	0	0
Gross Obligations, Utilities	0	0	0	0	0	0
MAINTENANCE (DIRECT)						
M&R Dwelling	0	0	0	0	0	0
M&R Ext. Utilities	0	0	0	0	0	0
M&R Other Real Property	0	0	0	0	0	0
Alter & Add	0	0	0	0	0	0
Sub-Total Direct Maintenance	0	0	0	0	0	0
Maintenance Anticipated Reimbursements	0	0	0	0	0	0
Gross Obligations, Maintenance	0	0	0	0	0	0
GRAND TOTAL, FHO&M - Direct	2,635	0	1,747	0	2,155	0
Anticipated Reimbursements	0	0	0	0	0	0
GRAND TOTAL, FHO&M - TOA	2,635	0	1,747	0	2,155	0

USAF FY 2025 PB	Fiscal Year: 2025
Family Housing Operation and Maintenance, Summary	Command: USAF
Excluded Leased Units and Costs	Exhibit: FH-2
Foreign	

<u>Inventory Data (Units)</u>	<u>FY 2023</u>	<u>FY 2024</u>	<u>FY 2025</u>
Units in Being Beginning of Year	15,082	15,191	15,165
Units in Being at End of Year	15,191	15,165	15,046
Average Inventory for Year	15,137	15,178	15,106
Historic Units	0	0	0

<u>Funding Requirements (\$000)</u>	<u>FY 2023</u>		<u>FY 2024</u>		<u>FY 2025</u>	
	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>	<u>Total Cost (\$000)</u>	<u>Unit Cost (\$)</u>
OPERATIONS (DIRECT)						
Management	26,822	1,772	22,448	1,479	23,556	1,559
Services	10,910	721	10,585	697	12,322	816
Furnishings	31,941	2,110	12,239	806	23,018	1,524
Miscellaneous	821	54	1,688	111	1,722	114
Sub-Total Direct Operations	70,494	4,657	46,960	3,094	60,618	4,013
Anticipated Reimbursements	322	21	322	21	322	21
Gross Obligations, Operations	70,816	4,678	47,282	3,115	60,940	4,034
UTILITIES (DIRECT)						
Direct Utilities	70,943	4,687	47,573	3,134	49,462	3,274
Utilities Anticipated Reimbursements	646	43	646	43	646	43
Gross Obligations, Utilities	71,589	4,729	48,219	3,177	50,108	3,317
MAINTENANCE (DIRECT)						
M&R Dwelling	104,444	6,900	114,124	7,519	107,055	7,087
M&R Ext. Utilities	6,196	409	6,771	446	6,351	420
M&R Other Real Property	9,319	616	10,183	671	9,552	632
Alter & Add	1,177	78	1,285	85	1,206	80
Sub-Total Direct Maintenance	121,136	8,003	132,363	8,721	124,164	8,220
Maintenance Anticipated Reimbursements	1,532	101	1,532	101	1,532	101
Gross Obligations, Maintenance	122,668	8,104	133,895	8,822	125,696	8,321
GRAND TOTAL, FHO&M - Direct	262,573	17,346	226,896	14,949	234,244	15,507
Anticipated Reimbursements	2,500	165	2,500	165	2,500	165
GRAND TOTAL, FHO&M - TOA	265,073	17,512	229,396	15,114	236,744	15,672

Summary Historic Housing

Summary of Historic Housing Detail			
	<u>2023</u>	<u>2024</u>	<u>2025</u>
1. Historic Housing Costs, Non-GOQ Data			
a. Number of Non-GOQ units on NHRP (Inventory)	64	64	64
b. Improvement Costs (\$000)	0	0	0
c. Maintenance and Repair Costs (\$000)	833	847	858
d. Total Historic Maintenance, Repair, Improvements (\$000)	833	847	858
e. Average Cost Per Unit (\$000)	13	13	13
2. Historic Housing Costs, GOQ Data			
a. Number of GOQ units on NHRP (Inventory)	32	32	32
b. Improvement Costs (\$000)	0	9,282	0
c. Maintenance and Repair Costs (\$000)	1,128	610	483
d. Total Historic Maintenance, Repair, Improvements (\$000)	1,128	9,892	483
e. Average Cost Per Unit (\$000)	35	309	15
3. Total Historic Inventory & Costs (Non-GOQ & GOQ)			
a. Number of Non-GOQ and GOQ units on NHRP (Inventory)	96	96	96
b. Improvement Costs (\$000)	0	9,282	0
c. Maintenance and Repair Costs (\$000)	1,961	1,457	1,342
d. Total Historic Maintenance, Repair, Improvements (\$000)	1,961	10,739	1,342
e. Average Cost Per Unit (\$000)	20	112	14
Note: Includes Egin AFB units (4)			

Family Housing Operation and Maintenance Reprogramming Actions

(\$ in Thousands) as of 14 Aug 2023

	<u>FY 2023 Appropriation</u>	<u>Funds Reprogrammed</u>	<u>Percent Reprogrammed</u>	<u>FY 2023 End of Year</u>
Utilities	46,217,000	24,869,944	53.81%	71,086,944
Operations				
Management	82,042,000	102,226	0.12%	82,144,226
Services	10,570,000	474,877	4.49%	11,044,877
Furnishings	27,379,000	6,337,363	23.15%	33,716,363
Miscellaneous	2,240,000	(1,073,044)	(47.90%)	1,166,956
Leasing	7,882,000	(2,571,254)	(32.62%)	5,310,746
Maintenance	150,375,000	(25,273,348)	(16.81%)	125,101,652
Debt	0	0	0.00%	0
Privatization	38,517,000	(2,866,764)	(7.44%)	35,650,236
Foreign Currency	0	0	0.00%	0
Total	365,222,000	0	0.00%	365,222,000

RECONCILIATION OF INCREASES AND DECREASES

MANAGEMENT EXHIBIT OP-5

Management The Management account supports housing operations to include management office personnel; supplies, equipment and custodial services; community liaison and housing support services; and housing information technology software and support. It supports studies such as the housing requirements and market analyses, preliminary studies, and engineering construction plans. It includes concept development, acquisition, and portfolio management supporting housing privatization.

				<u>(\$ in Thousands)</u>
1. FY 2024 President's Budget Request:				\$68,023
2. FY 2024 Appropriated Amount:				\$0
3. FY 2024 Current Estimate:				\$68,023
4. Price Growth:				\$1,428
a. General Inflation	2.10%	\$1,428		
5. Program Increase:				\$1,933
6. Program Decrease:				\$0
7. FY 2025 Budget Request:				\$71,384

Notes:

Analysis of changes in Management:

The FY25 program sustains the FY20 Congressional funding for additional manpower needed to enhance privatization oversight. The additional manpower positions are aligned to Air Force Installation Military Housing offices, Air Force Civil Engineer Center, and Headquarters Air Force to support inherently governmental activities of privatized housing oversight, asset management, housing support services, and fiscal oversight. A total of 218 positions (GS 7-15) were added in FY21 with 100% fill rate. The FY25 program increases are due to a program review of requirements, including funding for Housing Requirements and Market Analyses, and prior years' execution. The FY 2025 Budget Request of \$71,384 represents 5% increase compared to the FY2024 President's Budget Request.

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RECONCILIATION OF INCREASES AND DECREASES

SERVICES EXHIBIT OP-5

Services Provides basic municipal-type support services such as refuse collection and disposal; fire and police protection; entomology and pest control; snow removal; street cleaning, and custodial services for government-owned family housing units. Since private developers are responsible for municipal services, installations with privatized housing have no requirements for funding. Services at remaining government-owned housing units are based on historical obligations.

				<u>(\$ in Thousands)</u>
1. FY 2024 President's Budget Request:				\$10,692
2. FY 2024 Appropriated Amount:				\$0
3. FY 2024 Current Estimate:				\$10,692
4. Price Growth:				\$225
a. General Inflation	2.10%	\$225		
5. Program Increase:				\$1,529
6. Program Decrease:				\$0
7. FY 2025 Budget Request:				\$12,446

Notes:

Analysis of changes in Services:

The FY 2025 Budget Request is based on a review of program requirements (e.g. adjustments in service contracts at OCONUS locations), prior years' execution and inflation. The FY 2025 Budget Request of \$12,446 represents 12% increase compared to the FY2024 President's Budget Request.

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RECONCILIATION OF INCREASES AND DECREASES

FURNISHINGS EXHIBIT OP-5

Furnishings The Air Force provides furnishings support to members in overseas locations and for general officers residing in government-provided and privatized housing. This Furnishing account includes furnishing office personnel, procurement for initial issue and replacement of household equipment, domestic appliances (primarily stoves and refrigerators) and for furniture in limited circumstances. It funds the control, moving, and handling of furnishings inventories, and the maintenance and repair of such items. Privatized housing units do not receive funding with the exception for residents of general officers' quarters.

Loaner furniture is provided to military families overseas so they may occupy permanent quarters prior to the arrival of their personally-owned furniture.

“Loaner kits” consisting of beds, sofas, dining tables, etc., allows members to set up their household faster while reducing the cost of temporary quarters. In addition, there are some furnishings normally built into CONUS houses that are often limited or nonexistent in foreign private rentals, such as wardrobes (clothes closets), kitchen cabinets, sideboards and appliances. These items are provided to families as required.

The furnishings account funds essential furnishings at levels consistent with the needs of the Air Force.

	<u>(\$ in Thousands)</u>
1. FY 2024 President's Budget Request:	\$12,884
2. FY 2024 Appropriated Amount:	\$0
3. FY 2024 Current Estimate:	\$12,884
4. Price Growth:	\$271
a. General Inflation	2.10% \$271
5. Program Increase:	\$11,165
6. Program Decrease:	\$0
7. FY 2025 Budget Request:	\$24,320

Notes:

Analysis of changes in Furnishings:

DAF proposed an \$11,000 Technical Adjustment from Maintenance to support Furnishings. The total Furnishings FY2024 President's Budget Request is \$23,884.

The FY25 requirement is based on review of program requirements, prior years' execution and inflation. The DAF has a large OCONUS requirement for families and assists with helping families to occupy permanent quarters faster. This helps to avoid higher costs in other accounts such as military allowances and other support appropriations. The FY 2025 Budget Request of \$24,320 represents 2% increase compared to the FY2024 \$23,884 Technical Adjustment amount.

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RECONCILIATION OF INCREASES AND DECREASES

MISCELLANEOUS EXHIBIT OP-5

Miscellaneous Includes payments to other Federal agencies or foreign governments (i.e. United States Coast Guard and United Kingdom) to operate housing units occupied by Air Force personnel. For locations that are U.S. government owned or controlled, funding is based on historical obligations. No funding is provided in this category for installations with privatized housing.

				<u>(\$ in Thousands)</u>
1. FY 2024 President's Budget Request:				\$2,377
2. FY 2024 Appropriated Amount:				\$0
3. FY 2024 Current Estimate:				\$2,377
4. Price Growth:				\$50
a. General Inflation	2.10%	\$50		
5. Program Increase:				\$0
6. Program Decrease:				(\$1)
7. FY 2025 Budget Request:				\$2,426

Notes:

Analysis of changes in Miscellaneous:

The FY 2025 Budget Request is based on a review of program requirements, prior years' execution and inflation. The FY 2025 Budget Request of \$2,426 represents 2% increase compared to the FY2024 President's Budget Request.

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RECONCILIATION OF INCREASES AND DECREASES

UTILITIES EXHIBIT OP-5

This program provides for all utilities consumed in government-owned family housing. This program funds electricity, natural gas, fuel oil and other purchased heating, water, sewage and waste systems. Military Family Housing residents and housing management continue to work towards meeting energy reduction goals. However, as the majority of homes become privatized, and utility cost responsibility is shifted to private developers, this becomes less of an overall government concern.

Utilities Reconciliation Increases Decreases

	<u>(\$ in Thousands)</u>
1. FY 2024 President's Budget Request:	\$48,054
2. FY 2024 Appropriated Amount:	\$0
3. FY 2024 Current Estimate:	\$48,054
4. Price Growth:	\$1,009
a. General Inflation	2.10% \$1,009
5. Program Increase:	\$892
6. Program Decrease:	\$0
7. FY 2025 Budget Request:	\$49,955

Notes:

Analysis of changes in Utilities:

The FY25 increase is based on a review of program requirements, prior years' execution and inflation. The FY 2025 Budget Request of \$49,955 represents 4% increase compared to the FY2024 President's Budget Request.

Family Housing Summary of Utilities Detail

	2023	2024	2025
Total Cost of Utilities (\$000)	71,295	48,054	49,955
Utility Quantities			
Electricity (KwH)	204,323,395	208,409,863	212,578,060
Heating			
Gas(CF)	581,848,188	593,485,152	605,354,855
Fuel Oil			
Residuals (BBLs)			
Distillates (BBLs)	18,102	18,464	18,833
Purchased Steam (MBTU)	315,497	321,807	328,243
Heat Plants Coal Fired (MBTU)	0	0	0
Heat Plants Other Than Gas, Oil, Coal (MBTU)	0	0	0
Propane (BBLs)	13,646	13,919	14,197
Water (Kgal)			
Water (Kgal)	2,484,624	2,534,316	2,585,003
Sewage (Kgal)			
Sewage (Kgal)	2,245,008	2,289,908	2,335,706

RECONCILIATION OF INCREASES AND DECREASES

MAINTENANCE EXHIBIT OP-5

Maintenance provides for sustainment of family housing assets through service calls, change of occupancy rehabilitation, routine maintenance, preventive maintenance, interior and exterior painting, and major repairs. Housing condition assessments conducted for the AF FHMP substantiate that the maintenance and repair funding profile represents a balanced, fiscally constrained program, while ensuring sufficient Real Property Maintenance by Contract (RPMC) funds are available to maintain the existing adequate inventory. MFH maintenance is categorized in two types of service.

The first is routine recurring work such as service calls and repairs necessary to keep a house habitable (e.g. repairing leaking faucets, replacing broken windows, or replacing furnace filters). It includes maintenance performed during change of occupancy, such as painting or carpet replacement.

The second type of service is major maintenance and repair needed to fix or replace major systems and their components that are nearing the end of their useful life. Examples include restoring or replacing structural items including roofs, electrical, plumbing, heating, ventilation and air conditioning, landscaping, and complete exterior painting.

No maintenance funds are provided for privatized housing units which are the responsibility of the privatization property owner.

	<u>(\$ in Thousands)</u>
1. FY 2024 President's Budget Request:	\$135,410
2. FY 2024 Appropriated Amount:	\$0
3. FY 2024 Current Estimate:	\$135,410
4. Price Growth:	\$2,844
a. General Inflation	2.10% \$2,844
5. Program Increase:	\$0
6. Program Decrease:	(\$11,231)
7. FY 2025 Budget Request:	\$127,023

Notes:

Analysis of changes in Maintenance:

DAF requested a Technical Adjustment to realign \$11,000 from Maintenance to Furnishings. The total Maintenance FY2024 President's Budget Request is \$124,410

The FY25 program provides funding necessary to prevent deterioration of the government-owned housing inventory, routine recurring repair, and to address 68 units with low condition ratings through maintenance and repair projects. The FY25 Budget Request of \$127,023 represents an 8% decrease compared to the FY2024 President's Budget Request and is based on a program review of requirements as well as prior years' execution and inflation. The FY25 Budget Request of \$127,023 compared to the Technical Adjustment \$124,410 amount represents a 2.1% increase.

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MAINTENANCE AND REPAIR NON-GOQ UNITS EXCEED \$20,000 THRESHOLD

While these projects are shown as line items here, the maintenance budget estimate includes them among overall requirements for the entire inventory. AF Policy is to program projects that exceed \$20K threshold when work cannot await MILCON funding or housing privatization. Work includes actions that keep "good units good", protect life, safety, and health, and ensure facility preservation.

Location	Base	Number of Units	Year Built	High Unit Cost (\$000)	Unit (NSM)	Project (NSM)	Total Cost (\$000)	Significant O&M FY 2020-2024 (\$000)
OVERSEAS								
Germany	Spangdahlem AB	17	2008	323.0	3,170	3,170	4,948.0	0
Full renovation due to needed repairs on water and sewer pipe leakages, deficiencies at kitchens, stairwells, bathrooms, heating and electricity systems at Military Family Housing units, Buildings 6004, 6009, 6010, 6024, 6025, 6026, 6027, 6035, 6036, 6121, 6122, 6123, 6124, 6125, 6126, 6137 and 6138. Work will include but is not limited to the removal / deactivation of the existing domestic water piping, heating system, kitchen and bathrooms throughout the entire facility and replacement with new material. Removal and replacement of sections of the sewer pipe system, including broken drain inlets at various locations (bathroom tub and shower, kitchen sink, etc.) through the facility. The work will also include all necessary demolition, mechanical, masonry, flooring and wall tile replacement, paint and wall paper replacement work, as well as a final cleaning required prior to the re-occupation of the housing units.								
Germany	Ramstein AB	38	2007	414.0	5,487	5,487	17,100.0	0
Full renovation of 38 Townhouse units located on Landstuhl. Scope of work includes all interior floors, screeding and walls, bathrooms, kitchen, paint work, lock system, electrical work, communications, mechanical work, utilities, domestic water lines, and all other necessary site work to provide a complete and usable facility. Area includes Townhouse Bldg. 3600, 3601, 3610, 3611, 3612, 3614, 3625, 3626, 3627, 3628, 3629, 3631, 3632, 3633, 3635, 3637 at Landstuhl Air Base Ramstein, Germany.								
Japan	Kadena	68	1990	765.0	139	13,754	52,944.0	0
Repair 68 units in Tower 2602 (TJ3-90p10, JNCO) at Camp Foster to include repair of facilities: Shell & Core: Building System – Electrical Systems, Exterior Structure, Fire and Life Safety, Interior Structure, Mechanical Systems, Plumbing Systems, Parking, and Roof Structure; Common Area – Corridors, Garbage Disposal Rooms, Janitors Closets, Mechanical Room, Recreation Rooms, and Women/Men Restrooms; Lot – Utilities and Landscape; Dwelling unit: Building System - Electrical Systems, Exterior Structure, Fire and Life Safety, Interior Structure, Mechanical Systems and Plumbing, Systems; Space – Balcony, Bathroom, Bedroom, Dining Room, Exterior Storage, Family Room, Foyer, Hallway, Interior Storages, Kitchen, Laundry Room, Closets, and Living Room.								
Japan	Kadena	2	1970	81.0	203	406	162.0	0
Repair 2 units (SQH4-76p4) at Kadena Air base to meet current environmental safety standards. Specifically, this project addresses concerns associated with asbestos containing material located underneath the finish floor, this project uses conventional design and construction methods compatible with applicable DoD and AF standards, and provides the management, tools, design, supplies, equipment, transportation, labor and services necessary to replace the unit's floor finish.								
Japan	Kadena	188	1976	37.0	112	21,056	6,944.0	0
Repair 188 units at Washington Heights, Kadena Air base to include but is not limited to repair of building system and covered parkings' roof system. In addition, environmental (asbestos/lead) sampling, testing, and all other related work are incorporated into the project.								

Location	Base	Number of Units	Year Built	High Unit Cost (\$000)	Unit (NSM)	Project (NSM)	Total Cost (\$000)	Significant O&M FY 2020-2024 (\$000)
Japan	Misawa	32	1997	1,216.0	111	3,547	39,361.0	0
<p>Project provides general interior and exterior repair and maintenance to thirty-two (32), three-bedroom, Junior Non-Commissioned Officer (JNCO) military family house (MFH) units and common areas: corridors, trash rooms and mechanical rooms/pump house (B216).</p> <p>Work includes all utility (i.e., electrical, water/sewer, communications) upgrades to meet current code standards including required replacement of transformer (Transformer 215). Repair, by lifecycle replacement, to kitchen and bathroom cabinetry, finishes, fixtures and closets. All light fixtures will use LED bulbs. Repair, by lifecycle replacement, the steam-sourced heat system with new, energy efficient heat pump system. Repair, by replacement, all exhaust fans, windows (to include window fall protection as required), doors (as required) and frames (as required) to each unit for maximum energy efficiency. Repair, by replacement, the front and rear exterior overhang per Misawa Air Base (MAB) standard. Project provides energy management control system (EMCS) for integration with the MAB EMCS system including water and electric smart meters. Project will connect new servicing transformer to the EMCS. Existing fiber lines will be extended/used or if unavailable, new fiber lines installed. Energy efficient heat pump system will replace the aged steam-sourced domestic hot water system. Roof repair to increase energy efficiencies will be completed as required (verify roof has reached its useful life prior to replacement). Project will address/repair/replace any fire safety deficiencies including fire suppression and fire detection systems. Project will provide new interior and exterior painting, lighting, and floor coverings. Project will update, to code, force protection measures in accordance with current version of the Unified Facilities Criteria (UFC) 4-010-01. Project will abate asbestos, lead-based paint, arsenic gypsum board and all other hazardous materials as encountered. Project will provide all related civil, architectural, structural, mechanical, electrical and environmental work necessary for complete and usable units/building. Project programmed in accordance with the current (2016) Housing Community Profile (HCP).</p>								
Japan	Yokota	70	1991	552.0	552	38,700	38,700.0	0
<p>All work necessary to renovate Tower 3001. Architectural works include replace gutter/downspouts; install new elastomeric roof covering over existing concrete deck; replace exterior metal sliding doors and frames; replace all exterior doors with new metal doors; replace sliding aluminum windows; repaint interior/exterior throughout; replace shelves; replace metal handrail; replace floor finish; replace cabinets and countertops; replace porcelain toilets with Japanese standard washlets, urinals, wall sink and lavatory sink; replace shower enclosure and bathtub; replace door lock hardware with smart card hardware; landscaping. Mechanical works include replace fan coil units; install digital programmable thermostats in each housing unit and recreation room; upgrade plumbing system for new fixtures; replace domestic water distribution, sanitary waste collection and water storage tank; replace steam/water heat exchangers; replace pipe and fittings; replace circulating pump and terminal unit; replace water heater storage tanks; replace chillers; replace condensate pump; replace exhaust fan; repair/replace elevators. Electrical works include replace interior light fixtures with new energy efficient; replace interior fluorescent light fixtures; replace all electrical outlets; install communication, data and TV cabling to each individual bedroom; replace electrical panel, generator and transformer. Fire and safety works include fire suppression; fire alarm, fire pump, standpipe and mass notification; life safety. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria (UFC).</p>								
Japan	Yokota	1	1975	9,900.0	1	9,900	9,900.0	0
<p>All work necessary to renovate FMO warehouse and include any other incidental work. Civil work includes: install loading ramp. Architectural work includes: install new metal awning and modernization of vinyl roll up doors, upgrade appliance shop, renovate bathrooms, construct a new paint booth, replace existing roof, construct new offices, install two industrial sinks, repair floors and walls. Mechanical work includes: upgrade HVAC system and fire protection system, upgrade water and waste water lines. Structural work includes upgrade to structural seismic mitigation. Electrical work includes: upgrade electrical and lighting system. Fire protection work includes upgrade fire protection system, fire detection, alarm and suppressions. Any asbestos encountered</p>								

Location	Base	Number of Units	Year Built	High Unit Cost (\$000)	Unit (NSM)	Project (NSM)	Total Cost (\$000)	Significant O&M FY 2020-2024 (\$000)
needs to be abated in accordance with all laws and regulations. All other associated work to make the project complete and functional.								
United Kingdom	RAF Croughton	36	1968	213.0	4,444	4,444	9,000.0	0
Project is to undertake the complete renovation of 36 MFH housing units located on RAF Croughton, United Kingdom. The renovation will include; replacement of all kitchen units, worktops and appliances, replacement of flooring throughout, replacement of all bathrooms, shower rooms and toilets. Complete internal electrical infrastructure refurbishment to make systems up to current code, replace all lighting with more energy efficient LED fixtures. Redecoration of all walls and ceilings, including replacement of wall tiles in kitchen and bathroom areas. Replacement of all internal and external doors and windows. This project is to enable the installation to comply with the recent FY22 HCP requirements, all costings are taken from using the HCP cost analysis.								
United Kingdom	RAF Feltwell	24	1951	167.9	4,108	4,698	4,140.0	0
Scope of work includes the repair and renovation of 24 Military Family Housing townhouse units. Work will include but is not limited to updating kitchen/bath/finishes, and the replacement of boilers with temperature regulation. This project is intended to keep these units for at least 10-15 years to use as swing space during on-going replacement construction. In 15+ years, these units can be reevaluated for a long-term plan; The area can also be used for deficit construction if needed. Also included is all necessary demolition, mechanical, masonry, flooring and wall tile replacement, paint, and gypsum board replacement work, as well as a final cleaning, required prior to the re-occupation of the housing units. Project will be executed at Military Family Housing single-family units: 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622; townhouse duplex unit 623 at RAF Feltwell, England. Project also includes repairs to the roofs of the adjacent garage buildings to these MFH units: 651, 653, 655, 657, 659, 661, 663, 665, 667, 669, 670, 671, 673, 674. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02.								

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GENERAL AND FLAG OFFICERS' QUARTERS (GFOQ)

Anticipated Operations, Maintenance and Repair Expenditures Exceeding \$35,000 per Unit (FH-5)

(Dollars in Thousands)

Installation	Quarters Address	Year Built	Size NSF	Operations Cost	Maintenance Cost	Total OMR > \$35K Cost	Utility Cost	Leasing Cost	Historic Preservation Cost	Total FH O&M Cost	Significant O&M FY 2020-2024
CONUS											
USAFA	6950 Otis Drive	1929	7,303	\$2.0	\$38.0	\$40.0	\$9.9	\$0.0	\$0.0	\$50.0	\$738.3
<p>Waiver is required since normal operations and maintenance costs will exceed the \$35K GOQ maintenance and repair threshold for the traditional home of the USAFA Commandant of Cadets. This request enables routine reoccurring charges (e.g. service calls, grounds maintenance, snow removal, etc.) to be incurred without exceeding the GOQ threshold. Significant FHO&M was approved as and Exceed Threshold Project during FY23 (\$738.3K) to repair and replace aging infrastructure, including HVAC, chimney repairs, and electrical systems, and to address health and life safety deficiencies while making required changes to the home bringing it to SCP standards during change of occupancy maintenance in preparation for housing the USAFA Superintendent while the Carlton House is renovated.</p>											
Total GOQ Units				\$2.0	\$38.0	\$40.0	\$9.9	\$0.0	\$0.0	\$50.0	\$738.3

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GENERAL AND FLAG OFFICERS' QUARTERS

Quarters 6,000 Net Square Feet (FH-10)

State/Country	Installation	Quarters ID	Year Built	Size NSF	Total FHO&M Cost (\$000)	Alternative Use	Cost to Convert Unit	If O&M >\$35K Demolish & Rebuild Cost
Colorado	USAF Academy	6950 Otis	1929	11553	\$50	None	N/A	N/A
Colorado	USAF Academy	6776 Carlton	1931	10846	\$0	None	N/A	N/A
Total:					\$50		0.00	0.00

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Privatized GFOQ Operations, Maintenance and Repair Costs Exceeding \$50,000 (FH-12)

<u>State/Country</u>	<u>Installation</u>	<u>Quarters ID</u>	<u>Year Built</u>	<u>Size NSF</u>	<u>Operations Cost (Note 1)</u>	<u>Maintenance and Repair Cost (Note 2)</u>	<u>Total FH O&M Cost</u>
Colorado	USAFA	6700 Dean's Way	2009	3928	12.4	40.4	52.8
Nebraska	Offutt	16 Custer	1894	6340	15.3	85.5	100.8
Florida	MacDill	8204 Constellation Blvd	2009	4950	6.4	50.5	56.9
Alaska	JB Elmendorf-Richardson	8436 Pease	1942	3471	19.2	44.0	63.1
Hawaii	JB Pearl Harbor-Hickam	207 8th Street	1938	2518	21.8	38.5	60.3
Hawaii	JB Pearl Harbor-Hickam	301 Julian Ave	1941	3913	27.8	55.4	83.2
Total					102.9	314.3	417.1

Notes:

Cost incurred per unit by the private sector developer/partner/owner for Fiscal Year 2023 (\$ in Thousands).

- (1) Maintenance & Repair includes Capital Repair & Replacement and reinvestment Costs
- (2) Total O&M cost are from quarterly reports
- (3) This annual report complies with the FY 2009 National Defense Authorization Act (NDAA), amended Section 2805 requirement.

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REIMBURSEMENT EXHIBIT OP-5

Includes collections received from rental of Air Force family housing units to foreign nationals, civilians and others. Included in the estimate are the anticipated reimbursements due to members who voluntarily separate that are authorized to live in government quarters for up to six months after separation.

	<u>(\$ in Thousands)</u>
1. FY 2024 President's Budget Request:	\$2,500
2. FY 2024 Appropriated Amount:	\$0
3. Supplementals:	\$0
4. Price Growth:	\$0
5. Functional Program Transfers:	\$0
6. Program Increases:	\$0
7. Program Decreases	\$0
8. FY 2024 Current Estimate:	\$0
9. Price Growth:	
a. Inflation	0.00%
10. Functional Program Transfer:	\$0
11. Program Increases:	\$0
12. Program Decreases: Adjusted based on historical data	\$0
13. FY 2025 Budget Request:	\$2,500

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Leasing

Budget Request (\$ in Thousands)

FY 2025 Budget Request	\$6,278
FY 2024 President's Budget Request	\$5,143

Purpose and Scope

Leasing provides privately owned housing for assignment as government quarters at both domestic and foreign locations when the local economy and on-base housing cannot satisfy requirements. The leasing program is authorized by 10 United States Code (U.S.C.) §2828 and provides for payment of rental and operation and maintenance costs of privately owned quarters for assignment as government quarters to military families. This program includes funds needed to pay for services such as utilities and refuse collection when these services are not part of the lease agreement. The Air Force (AF) also uses the authorities in 10 U.S.C. §2834 to participate in Department of State (DoS) embassy leased housing pools.

The AF continues to rely on the private sector to meet the majority of housing needs. Where the private sector rental markets and on-base housing cannot meet requirements and cost-effective alternatives do not exist, short and long-term leases are used. The AF must use the leasing program in high-cost areas to obtain adequate housing to meet critical needs and to avoid unacceptably high out-of-pocket costs for the member where government-owned housing is not available.

A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Continuing Appropriations and Other Extensions, 2024 (Public Law 118-22). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Program Summary - Highlights

Authorization is requested to fund leases and related expenses in FY 2025. The FY 2025 request for family housing leasing points is summarized as follows:

	Lease Pts	FY 2023		FY 2024		FY 2025	
		Used	Cost (\$000)	Used	Cost (\$000)	Used	Cost (\$000)
Foreign:	8,988	82	\$5,219	84	\$5,113	85	\$6,247
Domestic:	3,333	1	\$29	1	\$30	1	\$31
Total:	12,321	83	\$5,248	85	\$5,143	86	\$6,278

Foreign Leasing

Congress authorized leasing in foreign countries in 10 U.S.C. §2828 as amended, which limits the number of lease points authorized and funds appropriated, and as required, through notifications prior to execution of lease agreements exceeding \$1M annually. The AF strategy is to provide adequate housing for our personnel serving in other countries where military family housing is not available. Foreign leases are primarily provided at Aviano, Italy and Doha, Qatar and other countries to support the direct AF mission.

The AF also provides appropriate funding support to accompanied military members and DoD civilians assigned at the DoS embassies where their housing and related services are provided by the DoS embassies under the authority of 10 U.S.C. §2834. DoS provides leased housing support through the International Cooperative Administrative Support Services (ICASS) program and requires ICASS administrative fees.

Domestic Leasing

Congress authorized domestic leasing program in 10 U.S.C. §2828 as amended, which limits the number of units authorized at any one time and specifies the maximum cost limitation.

The AF supports independent duty personnel residing in high cost rental areas of which their duty locations are geographically separated and/or outside of commuting distance from the nearest military installations with government-owned or privatized family housing. This support is provided since adequate housing is not available within member's housing allowances.

RECONCILIATION OF INCREASES AND DECREASES

LEASING EXHIBIT OP-5

				<u>(\$ in Thousands)</u>
1. FY 2024 President's Budget Request:				\$5,143
2. FY 2024 Appropriated Amount:				\$0
3. FY 2024 Current Estimate:				\$5,143
4. Price Growth:				\$108
a. General Inflation	2.10%		\$108	
5. Program Increase:				\$1,027
7. FY 2025 Budget Request:				\$6,278

Notes

The attached leasing charts reflect changes to the program by locations and type of lease. These requirements are a direct result of changes to missions, changes in accompanied requirements, and other housing needs. The FY 2025 Budget Request of \$6,278 represents 22% increase compared to the FY2024 President's Budget Request.

Analysis of Leased Units Exhibit (FH-4)

LOCATION	FY 23			FY 24			FY 25		
	# UNITS	LEASE MONTHS	COST (\$000)	# UNITS	LEASE MONTHS	COST (\$000)	# UNITS	LEASE MONTHS	COST (\$000)
DOMESTIC LEASES									
CONUS-wide (AF Recruiters, ROTC staffs, & other)	1	12	\$29	1	12	\$30	1	12	\$31
Unassigned	3,332	0	\$0	3,332	0	\$0	3,332	0	\$0
TOTAL DOMESTIC LEASES	3,333	12	\$ 29	3,333	12	\$ 30	3,333	12	\$ 31
FOREIGN LEASES									
Department of State (\$2834):									
Abu Dhabi, UAE	10	120	\$726	10	120	\$662	9	108	\$1,115
Amman, Jordan	5	60	\$326	5	60	\$233	4	48	\$311
Bangkok, Thailand	1	12	\$43	1	12	\$45	1	12	\$47
Bogotá, Colombia	8	96	\$510	7	84	\$442	9	108	\$542
Brasilia/Rio De Janeiro, Brazil	3	36	\$418	2	24	\$159	3	36	\$428
Cairo, Egypt	4	48	\$190	3	36	\$152	3	36	\$223
Chiang Mai, Thailand	2	24	\$45	2	24	\$69	3	36	\$47
Classified Location	2	24	\$151	2	24	\$153	4	48	\$410
Copenhagen, Denmark	2	24	\$158	2	24	\$161	2	24	\$163
Doha, Qatar	1	12	\$141	2	24	\$174	1	12	\$175
Mexico City, Mexico	11	132	\$617	11	132	\$604	13	156	\$692
Oslo, Norway	1	12	\$65	0	0	\$0	1	12	\$65
New Dehli, India	1	12	\$65	1	12	\$67	1	12	\$72
Paris, France	10	120	\$851	10	120	\$835	10	120	\$853
Santiago, Chile	2	24	\$155	2	24	\$106	2	24	\$173
Tel Aviv, Israel	1	12	\$54	1	12	\$56	3	36	\$322
DoS Subtotal	64	768	\$4,515	61	732	\$3,918	69	828	\$5,638
AF Foreign Leases (\$2828):									
Doha, Qatar	1	12	\$71	6	72	\$527	0	0	\$0
Geilenkirchen, Germany	1	12	\$64	1	12	\$72	1	12	\$73
Aviano, Italy	15	180	\$495	15	180	\$522	14	168	\$455
Stavanger, Norway	1	12	\$74	1	12	\$74	1	12	\$81
AF Foreign Leases Subtotal	18	216	\$ 704	23	276	\$ 1,195	16	192	\$ 609
Unassigned	8,906	0	\$0	8,904	0	\$0	8,903	0	\$0
TOTAL FOREIGN LEASES	8,988	984	\$ 5,219	8,988	1,008	\$ 5,113	8,988	1,020	\$ 6,247
GRAND TOTAL FH-4	12,321	996	\$ 5,248	12,321	1,020	\$ 5,143	12,321	1,032	\$ 6,278

Analysis of High Cost Leased Units (FH-4) (Other than Section 801)

LOCATION	FY25 TOTAL LEASES PER LOCATION	FY23			FY24			FY25		
		HIGH COST UNITS	HIGH COST DEFINED	EST COST (\$000)	HIGH COST UNITS	HIGH COST DEFINED	EST COST (\$000)	HIGH COST UNITS	HIGH COST DEFINED	EST COST (\$000)
DOMESTIC LEASES	0	0	\$38,015	\$0	0	\$38,015	\$0	0	\$38,015	\$0
Sub-Total Domestic High-cost	0	0		\$0	0		\$0	0		\$0
FOREIGN LEASES										
Doha, Qatar	0	1	\$58,170	\$71	6	\$58,170	\$527	0	\$58,170	\$0
Geilenkirchen, Germany	1	1	\$58,170	\$64	1	\$58,170	\$72	1	\$58,170	\$73
Stavanger, Norway	1	1	\$58,170	\$74	1	\$58,170	\$74	1	\$58,170	\$81
Sub-Total Foreign High-cost	2	3		\$209	8		\$673	2		\$154
GRAND TOTAL FH-4A	2	3		\$209	8		\$673	2		\$154

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FAMILY HOUSING PRIVATIZATION

Budget Request (\$ in Thousands)

FY 2025 Budget Request	\$32,508
FY 2024 President's Budget Request	\$31,803

Purpose and Scope

The Department of the Air Force uses the Military Housing Privatization Initiative (MHPI) program to provide quality and affordable housing to military members and their families throughout the continental United States (U.S.) plus Alaska and Hawaii at locations where adequate housing in the local community is not sufficient. The Air Force's program consists of an end state of 52,243 privatized homes at 63 installations within 31 privatization projects. This represents 99.8% of the total on-base family housing inventory in the U.S. The Air Force plans to complete the Initial Development Period for 100% of the projects by the end of FY24, extended from FY19 due to environmental remediation delays and time required to accumulate funds for demolition. To date, privatization will provide the Air Force with 22,243 new homes and 12,295 renovated homes, in addition to the 17,643 homes conveyed as-is at project closings.

The Air force is focused on sustaining the housing privatization program through detailed portfolio and asset management process. The Air Force remains committed to providing members and their families access to safe and adequate housing facilities and services.

A full-year FY 2024 appropriation for this account was not enacted at the time the budget was prepared; therefore, the budget assumes this account is operating under the Further Continuing Appropriations and Other Extensions, 2024 (Public Law 118-22). The amounts included for FY 2024 reflect the annualized level provided by the continuing resolution.

Program Summary

The FY 2025 funding request provides \$32,491,000 portfolio oversight and management. This program funds all costs related to family housing privatization, to include civilian pay for portfolio management personnel, privatized housing resident advocates, travel, contracts for environmental assessments, financial consultant services, project construction oversight, and training. This funding ensures the Air Force maintains oversight and accountability and fulfills reporting requirements mandated in Title 10, United States Code, Section 2885. In addition, long-term project oversight is essential to ensuring the Air Force continues to receive quality housing from the privatized housing project owners.

It is estimated that the Air Force will pay basic allowance for housing (BAH) under section 403 of title 37 to members living in privatized housing the amounts of \$1,100,615,335 in FY 2024 and \$1,146,841,179 in FY 2024. The number of units of military family housing upon which these estimated payments are made is 40,207 in FY 2024 and 41,621 in FY 2025. The number of units of military unaccompanied housing upon which these estimated payments are made is 112 in FY 2024 and 91 in FY 2025.

These estimates meet the reporting requirement stipulated in 10 USC 2884(b)(2). However, it must be noted that it is difficult to project the true cost of BAH allowances provided to members living in privatized housing. BAH allowances for members in privatized housing are not specifically tracked in budget or execution data, as these members receive the same allowances as those who live on the economy. BAH accounting data is available for only the various categories of payments (for instance, domestic with and without dependents, partial, overseas housing allowances, etc.).

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RECONCILIATION OF INCREASES AND DECREASES

Housing Privatization Exhibit OP-5

Housing Privatization Support

				<u>(\$ in Thousands)</u>
1. FY 2024 President's Budget Request:				\$31,803
2. FY 2024 Appropriated Amount:				\$0
3. FY 2024 Current Estimate:				\$31,803
4. Price Growth:				\$668
a. General Inflation	2.10%	\$668		
5. Program Decrease:				\$0
6. Program Increase:				\$37
7. FY 2025 Budget Request:				\$32,508

Notes:

Analysis of changes in Privatization:

The FY25 program continues to provide funds for MHPI Resident Advocates at installations with DAF privatized housing. The Air Force is committed to long-term project oversight to ensure program accountability and compliance. The FY 2025 Budget Request is based on a program review of requirements and prior years' execution and inflation. The FY 2025 Budget Request of \$31,803 represents 2% increase compared to the FY2024 President's Budget Request.

Family Housing Privatization Comparison Exhibit (FH-6)

Privatization Date ¹	MHPI Project Name ²	Installation/State ³	Approved by OSD & OMB ⁴						Actual/Current ⁸						MHPI Authorities ¹³	
			No. Units Conveyed ⁵	No. End State Units ⁶	Funding Source ⁶				No. Units Conveyed ⁹	End State Units ¹⁰	Total No. Units in Current Inventory ¹¹	Funding Source ¹²				
					Amount (\$M) ^{7a}	Budget Year(s) ^{7b}	Type of Funds ^{7c}	Source Project Name ^{7d}				Amount (\$M) ¹²	Budget Year(s) ¹²	Type of Funds ¹²		Source Project Name ¹²
Aug-98	Lackland I	Lackland AFB, TX (Ph I)	272	420	6.200	97	Construction	Lackland SIOH	272	420	420	6.161	97	Construction	Lackland SIOH	1, 2, 5
						96	Construction	Lackland					96	Construction	Lackland	
Sep-00	Robins I	Robins AFB, GA (Ph I)	670	670	12.800	98	Construction	Robins Replace MFH Ph 4 (60)	0	0	0	17.164	98	Construction	Robins Replace MFH Ph 4 (60)	1, 2, 5
						97	Construction	Dyess Construct MFH Ph 1 (70)					97	Construction	Dyess Construct MFH Ph 1 (70)	
Sep-00	Dyess	Dyess AFB, TX	0	402	16.300	99	Construction	Dyess-Construct MFH Ph 2 (64)	0	402	406	16.269	99	Construction	Dyess-Construct MFH Ph 2 (64)	1
						98	Construction	Dyess-Construct MFH Ph 1 (70)					98	Construction	Dyess-Construct MFH Ph 1 (70)	
Mar-01	Elmendorf I	Elmendorf AFB, AK (Ph I)	584	828	23.304	98	Improvement	Elmendorf-Improve MFH Ph 9 (82 units)	584	828	828	23.304	98	Improvement	Elmendorf-Improve MFH Ph 9 (82 units)	1, 5
								HRSO to FHIF							HRSO to FIFH	
Aug-02	Wright-Patterson I	Wright-Patterson AFB, OH (Ph I)	1,733	1,536	10.813	02	Improvement	Hickam-Privatize MFH	1,733	1,536	1,536	10.715	02	Improvement	Hickam-Privatize MFH	1, 2, 5
						99	Construction	Wright Patterson-Replace 40 Units					99	Construction	Wright Patterson-Replace 40 Units	
Apr-03	Kirtland	Kirtland AFB, NM	1,783	1,078	24.221	02	Construction	Travis - Replace MFH Ph 1	1,783	1,078	1,303	24.013	02	Construction	Travis - Replace MFH Ph 1	1, 2, 5
						02	Construction	Mountain Home-Replace MFH 56 Units					02	Construction	Mountain Home-Replace MFH 56 Units	
						99	Construction	Kirtland-Replace MFH Ph 5 (37)					99	Construction	Kirtland-Replace MFH Ph 5 (37)	
Aug-04	Buckley	Buckley AFB, CO	0	351	15.619	04	Improvement	Hickam - Improve 190 MFH	0	351	353	17.893	04	Improvement	Hickam - Improve 190 MFH	1, 5
						02	Construction	Buckley-Privatize MFH					02	Construction	Buckley-Privatize MFH	
Sep-04	Elmendorf II	Elmendorf AFB, AK (Ph II)	986	1,194	41.496	03	Improvement	Elmendorf-192 Ph 11 Improve	986	1,194	1,194	41.496	03	Improvement	Elmendorf-192 Ph 11 Improve	1, 4, 5
						02	Improvement	Elmendorf-Privatize MFH					02	Improvement	Elmendorf-Privatize MFH	
Feb-05	Hickam I	Hickam AFB, HI (Ph I)	1,356	1,356	4.194	02	Improvement	Hickam Privatize MFH	1,356	1,356	1,356	4.185	02	Improvement	Hickam Privatize MFH	1, 5

Sep-05	Offutt	Offutt AFB, NE	2,600	1,640	12.568	01	Improvement	Offutt Privatize MFH	2,600	1,640	1,954	12.568	01	Improvement	Offutt Privatize MFH	1, 5
Sep-05	Hill	Hill AFB, UT	1,138	1,018	11.280	05	Improvement	Davis-Monthan, Repair MFH Ph 6	1,138	1,018	1,092	11.656	05	Improvement	Davis-Monthan, Repair MFH Ph 6	1, 5
						01	Improvement	Hill, Privatize MFH					01	Improvement	Hill, Privatize MFH	
Sep-05	Dover	Dover AFB, DE	1,488	980	12.425	05	Improvement	Fairchild AFB - Privatize MFH	1,488	980	982	12.278	05	Improvement	Fairchild AFB - Privatize MFH	1, 5
						04	Construction	Dover, Repl 112 MFH Ph 3					04	Construction	Dover, Repl 112 MFH Ph 3	
Jan-06	Scott	Scott AFB, IL	1,430	1,593	0.000	N/A	N/A	N/A	1,430	1,593	1,595	0.000	N/A	N/A	N/A	1, 5
May-06	Nellis	Nellis AFB, NV	1,278	1,178	1.827	05	Improvement	Holloman - Privatize MFH	1,278	1,178	1,180	1.827	05	Improvement	Holloman - Privatize MFH	1, 5
						02	Improvement	Nellis - Privatize MFH					02	Improvement	Nellis - Privatize MFH	
Sep-06	McGuire	McGuire AFB/Ft. Dix, NJ	2,364	2,083	7.569	02	Improvement	McGuire Privatize MFH	2,364	2,084	2,212	5.270	02	Improvement	McGuire Privatize MFH	1, 5
Feb-07	AETC Group I	Altus AFB, OK	883	530	6.244	04	Improvement	Sheppard Privatize 1,288 MFH	883	530	530	6.244	04	Improvement	Sheppard Privatize 1,288 MFH	1, 5
		Luke AFB, AZ	690	550					690	550	550					
		Sheppard AFB, TX	1,167	714					1,167	714	714					
		Tyndall AFB, FL	848	813					848	593	230					
		AETC Group I Total:	3,588	2,607					3,588	2,387	2,024					
May-07	USAFA	US Air Force Academy, CO	1,208	427	2.219	06	Improvement	AF Academy Privatize 445 Units	1,207	425	669	2.219	06	Improvement	AF Academy Privatize 445 Units	1, 5
Jul-07	ACC Group II	Davis-Monthan AFB, AZ	1,256	929	27.922	05	Construction	Davis-Monthan AFB - Replace FH Ph 6	1,256	961	1,174	27.922	05	Construction	Davis-Monthan AFB - Replace FH Ph 6	1, 5
		Holloman AFB, NM	1,009	909		929	923	1,065	05	Construction	MacDill Replace FH Ph 6					
		ACC Group II Total:	2,265	1,838		2,185	1,884	2,239	05	Improvement	Holloman, Privatize Family Housing					
Aug-07	Hickam II	Hickam AFB, HI (Ph II)	1,303	1,118	0.000	N/A	N/A	N/A	1,303	1,118	1,139	0.000	N/A	N/A	N/A	5
Sep-07	Tri-Group	Los Angeles AFB, CA	617	572	19.950	06	Improvement	Fort MacArthur - Improve 188 Units	617	613	617	19.945	06	Improvement	Fort MacArthur - Improve 188 Units	3, 5
		Peterson AFB, CO	493	723		493	669	669	06	Improvement	Peterson, Privatize 1,132 Units					
		Schriever AFB, CO	0	269		0	242	242	06	Improvement	Peterson, Privatize 1,132 Units					
		Tri-Group Total:	1,110	1,564		1,110	1,524	1,528								

Sep-07	BLB	Barksdale AFB, LA	729	1,090	15.300	06	Improvement	Bolling, Improve 24 Units	723	990	1,090	71.359	16	Improvement	Kadena AB, Misawa AB and Yokota AB - Construction Improvement Projects	1, 5
		Joint Base Anacostia-Bolling (Bolling), MD	1,343	669		05	Improvement	Barksdale, Imp MFH Ph 1					06	Improvement	Bolling, Improve 24 Units	
		Joint Base Langley-Eustis (Langley), VA	1,496	1,430		05	Improvement	Langley, Improve Electrical System					05	Improvement	Barksdale, Imp MFH PH 1	
		BLB Total:	3,568	3,189		03	Construction	Eglin, 234 MFH Ph 2A					05	Improvement	Langley, Improve Electrical System	
						03	Improvement	Eglin - Hurlburt 213 MFH Improvement					03	Construction	Eglin, 234 MFH Ph 2A	
Oct-07	Robins II	Robins AFB, GA (Ph II)	563	207	10.600	05	Improvement	FY 05 Robins, Improve Family Housing	558	207	254	10.600	05	Improvement	FY 05 Robins, Improve Family Housing	3, 5
Oct-07	AETC Group II	Columbus AFB, MS	518	453	59.000	06	Improvement	Andrews-Improve 178 Units	517	453	453	59.000	06	Improvement	Andrews-Improve 178 Units	3, 5
		Goodfellow AFB, TX	98	241		05	Improvement	Randolph, Construct MFH Ph 1	98	241	241		05	Improvement	Randolph, Construct MFH Ph 1	
		Laughlin AFB, TX	534	516		05	Construction	Davis-Monthan, Repair MFH Ph 6	534	451	451		05	Construction	Davis-Monthan, Repair MFH Ph 6	
		Maxwell AFB, AL	729	501		03	Construction	Hurlburt, 134 MFH Ph 2A	723	501	513		03	Construction	Hurlburt, 134 MFH Ph 2A	
		JBSA-Randolph, TX	397	317		03	Improvement	Eglin - Hurlburt 213 MFH Improvement	397	317	317		03	Improvement	Eglin - Hurlburt 213 MFH Improvement	
		Vance AFB, OK	230	229					230	242	242					
AETC Group II Total:	2,506	2,257				2,499	2,205	2,217								
Nov-07	Vandenberg	Vandenberg AFB, CA	1,336	867	0.000	N/A	N/A	N/A	1,336	867	999	0.000	N/A	N/A	N/A	5
Nov-07	AMC East	Andrews AFB, MD	1,480	887	0.000	N/A	N/A	N/A	1,466	933	1,113	0.000	N/A	N/A	N/A	3, 5
		MacDill AFB, FL	752	571					752	572	572					
		AMC East Total:	2,232	1,458					2,218	1,505	1,685					
Jul-08	AMC West	Fairchild AFB, WA	1,055	641	28.190	04	Construction	Tinker, Privatize 730 MFH	1,055	641	641	28.190	04	Construction	Tinker, Privatize 730 MFH	1, 5
		Tinker AFB, OK	694	660		04	Improvement	Sheppard, Privatize 1,288 Units	694	660	660		04	Improvement	Sheppard, Privatize 1,288 Units	
		Travis AFB, CA	2,187	1,134					1,094	1,134	1,273					
		AMC West Total:	3,936	2,435					2,843	2,435	2,574					

Nov-08	Falcon Group	Hanscom AFB, MA	726	746	15.723	02	Improvement	Hickam - Privatize MFH	726	731	731	15.723	02	Improvement	Hickam - Privatize MFH	1, 5
		Little Rock AFB, AR	1,295	999		01	Improvement	Moody MFH Privatization	1,295	991	991		01	Improvement	Moody MFH Privatization	
		Moody AFB, GA	303	256		01	Construction	Travis - Replace 64 Units	303	287	287		01	Construction	Travis - Replace 64 Units	
		Patrick AFB, FL	991	616		00	Improvement	Little Rock - Privatize MFH	991	616	616		00	Improvement	Little Rock - Privatize MFH	
		Falcon Group Total:	3,315	2,617		3,315	2,625	2,625								
Dec-08	Lackland II	Lackland AFB, TX (Ph II)	264	465	21.785	05	Improvement	Robins - Improve Family Housing	264	465	613	21.618	05	Improvement	Robins - Improve Family Housing	1, 5
						03	Improvement	Keesler - Replace 117 Ph 1					03	Improvement	Keesler - Replace 117 Ph 1	
						03	Improvement	Eglin - Hurlburt 213 MFH Improve					03	Improvement	Eglin - Hurlburt 213 MFH Improve	
Jun-11	JBER	JB Elmendorf-Richardson	1242	1240	36.800	11	Improvement	Army Funds Transferred	1,242	1,240	1,240	36.798	11	Improvement	Army Funds Transferred	1, 5
Sep-11	Southern Group	Arnold AFB, TN	40	22	23.354	07	Construction	Mountain Home - Replace 457 MFH	40	22	22	23.354	07	Construction	Mountain Home - Replace 457 MFH	1, 5
		Charleston AFB, SC	478	345					478	345	599					
		Keesler AFB, MS	1,188	1,188					1,188	1,188	1,188					
		Shaw AFB, SC	681	630					679	630	633					
		Southern Group Total:	2,387	2,185					2,385	2,185	2,442					
Mar-12	Western Group	Beale AFB, CA	884	509	20.053	07	Construction	Mountain Home - Replace 457 MFH	884	509	509	20.053	07	Construction	Mountain Home - Replace 457 MFH	1, 5
		F.E. Warren AFB, WY	831	749		831	749	749	05	FHIF	Beale					
		Malmstrom AFB, MT	1,412	1,116		1,168	1,116	1,116	04	FHIF	Beale					
		Whiteman AFB, MO	920	890		920	890	890	03	FHIF	Beale					
		Western Group Total:	4,047	3,264		3,602	3,264	3,264								
Aug-13	Northern Group	Cannon AFB, NM	763	1,038	37.813	09	Improvement	Kadena - Improve 614 MFH (Ph 9) Misawa - Improve 370 MFH (Ph 4)	763	1,038	1,038	37.576	09	Improvement	Kadena - Improve 614 MFH (Ph 9) Misawa - Improve 370 MFH (Ph 4)	1, 2, 5
		Cavalier AFB, ND	14	14					14	14	14					
		Ellsworth AFB, SD	283	497					283	497	500					
		Grand Forks AFB, ND	833	547					833	547	547					
		Minot AFB, ND	1,746	1,606					1,746	1,440	1,440					
		Mountain Home AFB, ID	956	844					956	844	844					
		Northern Group Total:	4,595	4,546					4,595	4,380	4,383					

Sep-13	Continental Group	Edwards AFB, CA	741	741	82.610	09	Improvement	Mountain Home - Replace 457 MFH Kadena - Improve 614 MFH (Ph 9) Yokota - Improve 350 MFH (Ph 7) Misawa - Improve 370 MFH (Ph 4)	741	741	741	80.181	09	Improvement	Mountain Home - Replace 457 MFH Kadena - Improve 614 MFH (Ph 9) Yokota - Improve 350 MFH (Ph 7) Misawa - Improve 370 MFH (Ph 4)	1, 2, 5
		Eglin AFB, FL	898	747					894	747	873					
		Eielson AFB, AK	934	898					934	898	910					
		Hurlburt AFB, FL	380	404					380	404	504					
		McConnell AFB, KS	401	364					401	364	381					
		Seymour Johnson, NC	708	708					686	686	686					
Continental Group Total:		4,062	3,862					4,036	3,840	4,095						
Sep-13	ACC Group III	Dyess AFB, TX (PH II)	674	674	9.617	09	Improvement	Yokota - Improve 350 MFH (Ph 7) Misawa - Improve 370 MFH (Ph 4)	674	674	674	6.315	09	Improvement	Yokota - Improve 350 MFH (Ph 7) Misawa - Improve 370 MFH (Ph 4)	1, 2, 5
		Moody AFB, GA (PH II)	0	184					0	101	101					
		ACC Group III Total:	674	858					674	775	775					
Grand Totals¹⁴			61,883	53,331	617.796			59,534	52,181	54,546	671.896					

Notes:

- 1 - The date real property is transferred (land and housing units) to private ownership/developer, and when service members become entitled to receive a Basic Allowance for Housing (BAH).
- 2 - Provide the name of the MHPI Project given to the privatization project, including the name given to integrated/grouped projects. The MHPI project name should be consistent with the MHPI project name used in the previously approved OSD/OMB Scoring report and/or subsequent notification to Congress.
- 3 - List the MHPI project location by installation and state, including each installation/state incorporated into the integrated/grouped MHPI project.
- 4 - This section relates the previously-approved OSD/OMB project scope and funding amounts contained in the scoring package and/or subsequent Notification of Funds Transfer letters to Congress.
- 5 - Provide the number of family housing units to be conveyed by installation and state to the Developer, including each installation and state incorporated into the integrated/grouped MHPI project, as previously-approved in the OSD/OMB Scoring report.
- 6 - Provide the end state number of family housing units by installation and state to the Developer, including each installation/state incorporated into the integrated/grouped MHPI project, as previously-approved in the OSD/OMB Scoring report.
- 7 - Provide all of the funding source information for the MHPI project as reflected in the previously-approved OSD/OMB report and consistent with the project summary details accompanying the Notification of Transfer letter to Congress, such as:
 - a. The amount of funds to be used for the Government's cost of the project (i.e., equity contribution, credit subsidy costs, differential lease payments, etc.).
 - b. The fiscal year(s) of the funding sources to be used to cover the Government's cost of the MHPI project.
 - c. The type of funds (e.g., FH New Construction, FH Construction Improvements, FH Improvement Funds) to be used to cover the Government's cost of the MHPI project.
 - d. The project(s) that are used to source the Government's cost of the privatization project.
- 8 - This section relates to the Military Departments' actual and/or current plan, which might or might not be consistent with the details contained in the previously-approved OSD/OMB Scoring report and project summary to Congress for the MHPI project due to extenuating circumstances.
- 9 - Provide the actual and/or revised planned number of family housing units conveyed to the Developer by installation and state, including each installation/state incorporated into the integrated/grouped MHPI project.
- 10 - Provide the actual and/or revised, planned number of family housing end state units by installation and state, including each installation/state incorporated into the integrated/grouped MHPI project. Comments to 08/13/20 reporting: AETC Group 1 (cell K34) Approved end state rebuild at Tyndall after Hurricane Michael recovery changed from 813 to 593 units. Updated 30Mar2022: BLB: (Cells K46 and K47) Per the terms of the approved restructure, 100 "End State" units were "swapped" from Barksdale to Bolling effectively reducing the unit count at Barksdale to 990 from 1090 (cell K46) and increasing the unit count at Bolling from 672 to 772 (cell K47) with an additional 43 excess units online along with the proposal to bring an additional 21 units back on line in 2022. There are 14 other units being used as Maintenance storage facilities and will continue being used as such. The DL modification cost is noted in "12" below.
- 11 - Provide the total number of privatized family housing units in the inventory for each MHPI project by installation/state, including each installation/state incorporated into the integrated/grouped MHPI project, regardless if they are currently occupied or not. Kirtland increased by 1 unit due to one unit used as office/storage not accounted for on previous FH-6; ACC II-Holloman decreased by 10 over previous FH-6 which erroneously included ten units demolished in previous years; Hickam increased by 6 units at Bellows Air Force Station and 1 model unit not counted in previous FH-6; Tri-Group-Los Angeles increased by 4 for a quadplex not part of project end state but renting two units and using the other two units for storage; AMC East-Andrews decreased by 28 units erroneously counted that had been demolished in previous years; Northern Group change due to Initial Development Period (IDP) progress; Continental Group-Eglin change due to IDP progress; Continental Group-Hurlburt change due to IDP progress; Continental Group-McConnell change due to IDP progress. Comments to 08/13/20 reporting: AETC Group 1 (cell K34) Approved end state rebuild at Tyndall after Hurricane Michael recovery changed from 813 to 593 units and (cell L34) 52 units have been restored and are online for occupancy as of 31 Jul. AMC East (Cell L59) 933 was the end state; however, 2 of the Madison burn units were deleted because they were not rebuilt. Northern Group: (cell L87) 3 NDSU Units were a part of Hunt's project back in the 90s. They were not part of the inventory until 2016. Wing leadership was living in those homes and didn't want them to be torn down, so Hunt transferred them to BBC and BBC renovated them and includes them in the inventory now. The 3 units are SOQ's but are classified as NDSU's because they were transferred from 801 housing. Updates as of 08/3/2021: Hill (cell L23) total no. of units in current inventory changed from 1082 to 1090 (increased by 8 units) with 10 new units built and 2 units demolished in 2017. AETC Group 1 Tyndall AFB (cell L34) total no. units in inventory changed from 52 to 97 and (cell L35) project total changed from 1846 units to 1891 (increased by 45 units). As of 31 Dec 20, total 97 units have been rebuilt. Updated 30 Mar 2022: Robins AFB, GA (Ph I) End State Units decreased by 670 (cells E6 and K6) and Total No. Units in Current Inventory decreased by 670 (cell L6) upon divestiture from DAF MHPI portfolio on 31 Oct 2021. The DL modification is noted in "12" below. Northern Group-Minot End State Units (cell K90 and Total No. Units in Current Inventory (cell L90) changed from 1,606 to 1,440 - 166 NDSUs demolished. Updates as of 30 Jun 23: Dyess (cell L9) increased by 4 units due to 4 units built by the project owner during the initial development period that were not accounted for on previous FH-6; Buckley (cell L18) increased by 2 units due to 2 units built by the project owner during the initial development period that were not accounted for on previous FH-6; Hill (cell L24) increased by 2 units due to 2 units built by the project owner during the initial development period that were not accounted for on previous FH-6; Dover (cell L26) increased by 2 units due to 2 units built by the project owner during the initial development period that were not accounted for on previous FH-6; Nellis (L29) increased by 2 units due to 2 units built by the project owner during the initial development period that were not accounted for on previous FH-6; AETC Group 1 (cell L35) 230 units have been restored after Hurricane Michael and are online for occupancy as of 30 Jun 23; Continental Group-Eglin (cell L95) change due to IDP progress; Continental Group-Hurlburt change due to IDP progress; Continental Group-Eielson (cell L96) change due to IDP progress.
- 12 - Provide all the "actual and/or current" funding sources used to fund the MHPI project, which might or might not be consistent with the details contained in the previous-approved OSD/OMB Scoring report and project summary (i.e., project amount, budget year of funds, source project, appropriation) to Congress for the MHPI project due to extenuating circumstances. If possible and/or available, please provide the requested funding information by

installation/state. Change to scoring reported as actual for Wright Patterson as a result of actual scoring found in historical records. Updated 30 Mar 22: (1) Robins AFB, GA (ph 1) was divested from DAF MHPI portfolio on 31 Oct 2021. The DL modification cost was \$4.364 million. (2) BLB Group Loan Modification occurred in FY 2020. The modification cost was \$56.059 million.

13 - Provide the applicable MHPI authorities in subchapter IV of Chapter 169 in title 10 U.S.C. was used and/or proposed to be used for the privatization project. Designators are as follows:

1 = 10 USC 2873 - Government Direct Loans

2 = 10 USC 2873 - Loan Guarantees

3 = 10 USC 2875 - Investments, such as DoD Equity Contributions in non-governmental entities

4 = 10 USC 2877 - Differential Lease Payments

5 = 10 USC 2878 - Conveyance or Lease of Existing Property and Facilities

14 - Totals of number of units conveyed, number of end state units, and funding amounts.

FOREIGN CURRENCY EXCHANGE DATA (PB-18)

(\$ in Thousands)

MFH O&M		FY 2023		FY 2024		FY 2025	
Country	Local Currency	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion
Denmark	Krone	6.9802		7.2883		6.895	
European Comm	Euro	0.9381	\$ 59,510	0.9798	\$ 51,400	0.9249	\$ 56,296
Iceland	Krona	131.3927		142.4565		136.0931	
Japan	Yen	127.7677	\$ 148,294	139.1635	\$ 125,999	145.7323	\$ 131,915
Norway	Krone	9.3864	\$ -	10.0785	\$ -	10.6839	\$ -
Singapore	Dollar	1.3750	\$ -	1.3833	\$ -	1.3517	\$ -
South Korea	Won	1259.1031	\$ 7,753	1343.5392	\$ 6,771	1,314.21	\$ 7,040
Turkey	Lira	15.7532	\$ -	18.4846	\$ -	26.7796	\$ -
United Kingdom	Pound	0.7922	\$ 27,586	0.8502	\$ 25,191	0.7978	\$ 30,487
Total			\$ 243,144		\$ 209,361		\$ 225,739

MFH Construction		FY 2023		FY 2024		FY 2025	
Country	Local Currency	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion	Budget Exchange Rates	\$ U.S. Requiring Conversion
Denmark	Krone	6.9802		7.2883		6.895	
European Comm	Euro	0.9381	\$ -	0.9798	\$ -	0.9249	\$ 5,750
Iceland	Krona	131.3927		142.4565		136.0931	
Japan	Yen	127.7677	\$ 3,800	139.1635	\$ -	145.7323	\$ 65,242
Norway	Krone	9.3864	\$ -	10.0785	\$ -	10.6839	\$ -
Singapore	Dollar	1.3750	\$ -	1.3833	\$ -	1.3517	\$ -
South Korea	Won	1259.1031	\$ -	1343.5392	\$ -	1,314.21	\$ -
Turkey	Lira	15.7532	\$ -	18.4846	\$ -	26.7796	\$ -
United Kingdom	Pound	0.7922	\$ -	0.8502	\$ -	0.7978	\$ -
Total			\$ 3,800		\$ -		\$ 70,992