Department of the Air Force

Military Construction Program

Fiscal Year (FY) 2016
Budget Estimates

Justification Data Submitted to Congress
February 2015

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION AND MILITARY FAMILY HOUSING FISCAL YEAR 2016
PROGRAM SUMMARY

	Authorization Request ($000s)	Appropriation Request ($000s)
Military Construction		
Inside the United States	**769,750**	**855,750**
Outside the United States	**306,841**	**341,241**
Unspecified Locations	**80,130**	**80,130**
Unspecified Minor Construction (10 USC 2805)		**22,900**
Planning and Design (10 USC 2807)		**89,164**
Total Military Construction	**1,156,721**	**1,389,185**
Military Family Housing		
New Construction	**0**	**0**
Improvements	**150,649**	**150,649**
Planning and Design	**9,849**	**9,849**
Subtotal	**160,498**	**160,498**
Operations, Utilities and Maintenance	**260,811**	**260,811**
Operations	**105,871**	**105,871**
Utilities	**40,811**	**40,811**
Maintenance	**114,129**	**114,129**
Privatization	**41,554**	**41,554**
Leasing	**28,867**	**28,867**
Subtotal	**331,232**	**331,232**
Total Military Family Housing	**491,730**	**491,730**
Grand Total Air Force	**1,648,451**	**1,880,915**

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016
INDEX - INSIDE THE US
(DOLLARS IN THOUSANDS)

STATE/COUNTRY	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
ALASKA	Eielson	F-35A Flight Sim/Alter Squad Ops/AMU Facility	37,000	37,000
		Rpr Central Heat & Power Plant Boiler Ph3	34,400	34,400
		Eielson TOTAL:	71,400	71,400
		ALASKA TOTAL:	71,400	71,400
ARIZONA	Davis Monthan	HC-130J AGE Covered Storage	4,700	4,700
		HC-130J Wash Rack	12,200	12,200
		Davis Monthan TOTAL:	16,900	16,900
	Luke	F-35A ADAL Fuel Offload Facility	5,000	5,000
		F-35A Aircraft Maintenance Hangar/Sq 3	13,200	13,200
		F-35A Sq Ops/AMU/Hangar/Sq 4	33,000	33,000
		F-35A Bomb Build-Up Facility	5,500	5,500
		Luke TOTAL:	56,700	56,700
		ARIZONA TOTAL:	73,600	73,600
COLORADO	U.S. Air Force Academy	Front Gates Force Protection Enhancements	10,000	10,000
		U.S. Air Force Academy TOTAL:	10,000	10,000
		COLORADO TOTAL:	10,000	10,000
FLORIDA	Cape Canaveral	Range Communications Facility	21,000	21,000
		Cape Canaveral TOTAL:	21,000	21,000
	Eglin	F-35A Consolidated HQ Facility	8,700	8,700
		Eglin TOTAL:	8,700	8,700
	Hurlburt Field	Add to 39 IOS Facility	14,200	14,200
		Hurlburt Field TOTAL:	14,200	14,200
		FLORIDA TOTAL:	43,900	43,900
HAWAII	JBPH Hickam	F-22 Fighter Alert Facility	46,000	46,000
		JBPH Hickam TOTAL:	46,000	46,000
		HAWAII TOTAL:	46,000	46,000
KANSAS	McConnell	KC-46A ADAL Deicing Pads	4,300	4,300
		McConnell TOTAL:	4,300	4,300
		KANSAS TOTAL:	4,300	4,300
MARYLAND	Ft Meade	CYBERCOM Joint Operations Center, Increment 3	0	86,000
		Ft Meade TOTAL:	0	86,000
		MARYLAND TOTAL:	0	86,000
MISSOURI	Whiteman	Consolidated Stealth Ops & Nuclear Alert Fac	29,500	29,500
		Whiteman TOTAL:	29,500	29,500
		MISSOURI TOTAL:	29,500	29,500
MONTANA	Malmstrom	Tactical Response Force Alert Facility	19,700	19,700
		Malmstrom TOTAL:	19,700	19,700
		MONTANA TOTAL:	19,700	19,700
NEBRASKA	Offutt	Dormitory (144 RM)	21,000	21,000
		Offutt TOTAL:	21,000	21,000
		NEBRASKA TOTAL:	21,000	21,000
NEVADA	Nellis	F-35A Airfield Pavements	31,000	31,000
		F-35A Live Ordnance Loading Area	34,500	34,500
		F-35A Munitions Maintenance Facilities	3,450	3,450
		Nellis TOTAL:	68,950	68,950
		NEVADA TOTAL:	68,950	68,950

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016
INDEX - INSIDE THE US
(DOLLARS IN THOUSANDS)

STATE/COUNTRY	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
NEW MEXICO	Cannon	Construct AT/FP Gate - Portales	7,800	7,800
		Cannon TOTAL:	7,800	7,800
	Holloman	Marshalling Area ARM/DE-ARM Pad D	3,000	3,000
		Holloman TOTAL:	3,000	3,000
	Kirtland	Space Vehicles Component Development Lab	12,800	12,800
		Kirtland TOTAL:	12,800	12,800
		NEW MEXICO TOTAL:	23,600	23,600
NORTH CAROLINA	Seymour Johnson	Air Traffic Control Tower/Base Ops Facility	17,100	17,100
		Seymour Johnson TOTAL:	17,100	17,100
		NORTH CAROLINA TOTAL:	17,100	17,100
OKLAHOMA	Altus	Dormitory (120 RM)	18,000	18,000
		KC-46A FTU ADAL Fuel Cell Maintenance	10,400	10,400
		Altus TOTAL:	28,400	28,400
	Tinker	Air Traffic Control Tower	12,900	12,900
		KC-46A Depot Maintenance Dock	37,000	37,000
		Tinker TOTAL:	49,900	49,900
		OKLAHOMA TOTAL:	78,300	78,300
SOUTH DAKOTA	Ellsworth	Dormitory (168 RM)	23,000	23,000
		Ellsworth TOTAL:	23,000	23,000
		SOUTH DAKOTA TOTAL:	23,000	23,000
TEXAS	JBSA - Lackland	BMT Classrooms/Dining Facility 3	35,000	35,000
		BMT Recruit Dormitory 5	71,000	71,000
		JBSA - Lackland TOTAL:	106,000	106,000
		TEXAS TOTAL:	106,000	106,000
UTAH	Hill	F-35A Flight Simulator Addition Phase 2	5,900	5,900
		F-35A Hangar 40/42 Additions and AMU	21,000	21,000
		Hayman Igloos	11,500	11,500
		Hill TOTAL:	38,400	38,400
		UTAH TOTAL:	38,400	38,400
WYOMING	FE Warren	Weapon Storage Facility	95,000	95,000
		FE Warren TOTAL:	95,000	95,000
		WYOMING TOTAL:	95,000	95,000
		INSIDE THE US TOTAL:	769,750	855,750

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016
INDEX - OUTSIDE THE US
(DOLLARS IN THOUSANDS)

STATE/COUNTRY	INSTALLATION	PROJECT	AUTHORIZATION REQUEST	APPROPRIATION REQUEST
GREENLAND	Thule	Consolidation Ph 1	41,965	41,965
		Thule TOTAL:	41,965	41,965
		GREENLAND TOTAL:	41,965	41,965
GUAM	JRM - Andersen	APR - Dispersed Maint Spares & SE Storage Fac	19,000	19,000
		APR - Installation Control Center	22,200	22,200
		PAR - LO/Corrosion Control/Comp Rpr	0	34,400
		APR - South Ramp Utilities	7,100	7,100
		PRTC Roads	2,500	2,500
		JRM - Andersen TOTAL:	50,800	85,200
		GUAM TOTAL:	50,800	85,200
JAPAN	Yokota	C-130J Flight Simulator Facility	8,461	8,461
		Yokota TOTAL:	8,461	8,461
		JAPAN TOTAL:	8,461	8,461
NIGER	Agadez	Construct Airlift and Base Camp	50,000	50,000
		Agadez TOTAL:	50,000	50,000
		NIGER TOTAL:	50,000	50,000
OMAN	Al Musannah	Airlift Apron	25,000	25,000
		Al Musannah TOTAL:	25,000	25,000
		OMAN TOTAL:	25,000	25,000
UNITED KINGDOM	RAF Croughton	Consolidated SATCOM/Tech Control Facility	36,424	36,424
		JIAC Consolidation - Ph 2	94,191	94,191
		RAF Croughton TOTAL:	130,615	130,615
		UNITED KINGDOM TOTAL:	130,615	130,615
		OUTSIDE THE US TOTAL:	306,841	341,241
WORLDWIDE UNSPECIFIED	Worldwide Classified	Long Range Strike Bomber	77,130	77,130
	Worldwide Classified	Munitions Storage	3,000	3,000
	Various Locations	Unspecified Minor Military Construction		22,900
	Various Locations	Planning and Design		89,164
		WORLDWIDE UNSPECIFIED TOTAL:	80,130	192,194
		INSIDE THE US TOTAL:	769,750	855,750
		OUTSIDE THE US TOTAL:	306,841	341,241
		WORLDWIDE UNSPECIFIED TOTAL:	80,130	192,194
		FY 2016 TOTAL:	1,156,721	1,389,185

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016
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.

FY16	Authorization Request ($000)	Appropriation Request ($000)
NEW MISSION	665,332	775,732
CURRENT MISSION	501,389	501,389
MINOR CONSTRUCTION		22,900
PLANNING & DESIGN		89,164
TOTAL:	1,156,721	1,389,185

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016
INDEX - CURRENT/NEW MISSION BREAKOUT
(DOLLARS IN THOUSANDS)

STATE/COUNTRY	INSTALLATION	PROJECT	AUTH FOR APPROPRIATION	APPROPRIATION REQUEST	TYPE
ALASKA	Eielson	Rpr Central Heat & Power Plant Boiler Ph3	34,400	34,400	CM
COLORADO	U.S. Air Force Academy	Front Gates Force Protection Enhancements	10,000	10,000	CM
FLORIDA	Cape Canaveral	Range Communications Facility	21,000	21,000	CM
GREENLAND	Thule	Consolidation Ph 1	41,965	41,965	CM
MISSOURI	Whiteman	Consolidated Stealth Ops & Nuclear Alert Fac	29,500	29,500	CM
NEBRASKA	Offutt	Dormitory (144 RM)	21,000	21,000	CM
NEWMEXICO	Cannon	Construct AT/FP Gate - Portales	7,800	7,800	CM
NEWMEXICO	Kirtland	Space Vehicles Component Development Lab	12,800	12,800	CM
NORTHCAROLINA	Seymour Johnson	Air Traffic Control Tower/Base Ops Facility	17,100	17,100	CM
OKLAHOMA	Altus	Dormitory (120 RM)	18,000	18,000	CM
OKLAHOMA	Tinker	Air Traffic Control Tower	12,900	12,900	CM
SOUTH DAKOTA	Ellsworth	Dormitory (168 RM)	23,000	23,000	CM
TEXAS	JBSA - Lackland	BMT Classrooms/Dining Facility 3	35,000	35,000	CM
TEXAS	JBSA - Lackland	BMT Recruit Dormitory 5	71,000	71,000	CM
UNITED KINGDOM	RAF Croughton	Consolidated SATCOM/Tech Control Facility	36,424	36,424	CM
UTAH	Hill	Hayman Igloos	11,500	11,500	CM
WORLDWIDE CLASSIFIED	Worldwide Classified	Munitions Storage	3,000	3,000	CM
WYOMING	FE Warren	Weapon Storage Facility	95,000	95,000	CM
		Current Mission TOTAL:	501,389	501,389	
ALASKA	Eielson	F-35A Flight Sim/Alter Squad Ops/AMU Facility	37,000	37,000	NM
ARIZONA	Davis Monthan	HC-130J AGE Covered Storage	4,700	4,700	NM
ARIZONA	Davis Monthan	HC-130J Wash Rack	12,200	12,200	NM
ARIZONA	Luke	F-35A ADAL Fuel Offload Facility	5,000	5,000	NM
ARIZONA	Luke	F-35A Aircraft Maintenance Hangar/Sq 3	13,200	13,200	NM
ARIZONA	Luke	F-35A Bomb Build-Up Facility	5,500	5,500	NM
ARIZONA	Luke	F-35A Sq Ops/AMU/Hangar/Sq 4	33,000	33,000	NM
FLORIDA	Eglin	F-35A Consolidated HQ Facility	8,700	8,700	NM
FLORIDA	Hurlburt Field	Add to 39 IOS Facility	14,200	14,200	NM
GUAM	JRM - Andersen	APR - Dispersed Maint Spares & SE Storage Fac	19,000	19,000	NM
GUAM	JRM - Andersen	APR - Installation Control Center	22,200	22,200	NM
GUAM	JRM - Andersen	PAR - LO/Corrosion Control/Comp Rpr	0	34,400	NM
GUAM	JRM - Andersen	APR - South Ramp Utilities	7,100	7,100	NM
GUAM	JRM - Andersen	PRTC Roads	2,500	2,500	NM
HAWAII	JBPH Hickam	F-22 Fighter Alert Facility	46,000	46,000	NM
JAPAN	Yokota	C-130J Flight Simulator Facility	8,461	8,461	NM
KANSAS	McConnell	KC-46A ADAL Deicing Pads	4,300	4,300	NM
MARYLAND	Ft Meade	CYBERCOM Joint Operations Center, Increment 3	0	86,000	NM
MONTANA	Malmstrom	Tactical Response Force Alert Facility	19,700	19,700	NM
NEVADA	Nellis	F-35A Airfield Pavements	31,000	31,000	NM
NEVADA	Nellis	F-35A Live Ordnance Loading Area	34,500	34,500	NM
NEVADA	Nellis	F-35A Munitions Maintenance Facilities	3,450	3,450	NM
NIGER	Agadez	Construct Airlift and Base Camp	50,000	50,000	NM
NEWMEXICO	Holloman	Marshalling Area ARM/DE-ARM Pad D	3,000	3,000	NM
OKLAHOMA	Altus	KC-46A FTU ADAL Fuel Cell Maintenance	10,400	10,400	NM
OKLAHOMA	Tinker	KC-46A Depot Maintenance Dock	37,000	37,000	NM
OMAN	Al Musannah	Airlift Apron	25,000	25,000	NM
UNITED KINGDOM	RAF Croughton	JIAC Consolidation - Ph 2	94,191	94,191	NM
UTAH	Hill	F-35A Flight Simulator Addition Phase 2	5,900	5,900	NM
UTAH	Hill	F-35A Hangar 40/42 Additions and AMU	21,000	21,000	NM
WORLDWIDE CLASSIFIED	Worldwide Classified	Long Range Strike Bomber	77,130	77,130	NM
		New Mission TOTAL:	655,332	775,732	
WORLDWIDE UNSPECIFIED	Various Locations	Unspecified Minor Military Construction		22,900	UMMC
WORLDWIDE UNSPECIFIED	Various Locations	Planning and Design		89,164	P&D
		Central Program TOTAL:		112,064	
		Active AF Program TOTAL:	1,156,721	1,389,185	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016
INSTALLATION INDEX

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016
SPECIAL PROGRAM CONSIDERATIONS

ECONOMIC CONSIDERATIONS

An economic evaluation has been accomplished for all projects costing over $2 million where more than one possible option could be identified. 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 2015 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 manage 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.

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016
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 9, 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 2016
NON-MILCON FUNDING

Research and Development (RDT&E) NONE

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016
APPROPRIATION SOUGHT FOR PREVIOUSLY AUTHORIZED PROJECTS

APPROPRIATION SOUGHT FOR FY15 AUTHORIZATION

In the FY2016 President's Budget, the Department is requesting appropriation in the amount of $34.4 million for the Guam Joint Region Marianas PAR Low Observable/ Corrosion Control/Composite Repair Shop, which was fully authorized in the National Defense Authorization Act for Fiscal Year 2015 (H.R. 3379). The Consolidated and Further Continuing Appropriations Act, 2015 (H.R. 83) did not appropriate funds for this project. The project justification DD Form 1391 for this project is provided on the next page.

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
JRM ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM	PAR LOW OBSERVABLE/CORROSION CONTROL/COMPOSITE REPAIR SHOP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-159	1366/AJJY133028	AUTH: 0 APPN: 34,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				22,626
L.O./CORROSION CONTROL/COMPOSITE REPAIR FAC	SM	2,289	9,689	(22,178)
SUSTAINABILITY AND ENERGY MEASURES	LS			(448)
SUPPORTING FACILITIES				8,219
UTILITIES	LS			(2,769)
SITE IMPROVEMENTS	LS			(1,886)
PAVEMENTS	LS			(627)
COMMUNICATIONS	LS			(33)
INJECTION WELLS	LS			(215)
EXPLOSIVE SAFETY SUBMISSION COMPLIANCE	LS			(890)
CARGO DEPLOYMENT FACILITY RENOVATION	SM	1,216	1,115	(1,356)
ENVIRONMENTAL REMEDIATION	LS			(150)
ARCHEOLOGICAL MONITORING	LS			(87)
DEMOLITION	SM	1,337	154	(206)
SUBTOTAL				30,845
CONTINGENCY (5.0%)				1,542
TOTAL CONTRACT COST				32,387
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				2,008
TOTAL REQUEST				34,395
TOTAL REQUEST (ROUNDED)				34,400
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(250.0)

10. Description of Proposed Construction: Construct the facility utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective The project includes demolition of three buildings (1,337 SM). The fire suppression system will consist of fire sprinkler and foam systems, foam pump system, and fire foam holding tanks. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. The project will include electrical, mechanical, water, communication, fire suppression/detection, air conditioning system with humidity environmental controls, utilities, pavements, parking, an oil water separator, associated site improvements, archeological monitoring and all necessary supporting facilities for a complete and usable facility. This project includes the renovation of an existing building to relocate the Cargo Deployment Facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
JRM ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM	PAR LOW OBSERVABLE/CORROSION CONTROL/COMPOSITE REPAIR SHOP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-159	1366/AJJY133028	AUTH: 0 APPN: 34,400

Air Conditioning: 245 Tons

11. Requirement: 2289 SM Adequate: SM Substandard: 527 SM

PROJECT: Construct a low observable/ corrosion control/ composite repair shop. (New Mission)

REQUIREMENT: For this Pacific Airpower Resiliency (PAR) project, an adequately sized and configured shop is required to provide environmentally controlled areas for on-aircraft Low Observable restoration and repair in support of the PAR mission. The shop is required to support a Continuous Bomber Presence (CBP), Tanker Task Force (TTF), Global Hawk, and the Theater Security Packages (TSP). Fighter aircraft require environmentally controlled areas for on-aircraft LO restoration and repair. A single bay and workshop support areas for preparation and cure are required to support LO maintenance. The facility is required to provide an environmentally controlled area for corrosion/ composite treating, corrosion/ composite repairing, paint stripping, and repainting of aircraft parts. The facility is required to provide functional area for a corrosion control shop to include preparation and drying areas, abrasive blasting rooms, paint booths for mixing and or applying paint, tool storage, lockers, and administrative support functions.

CURRENT SITUATION: Corrosion control and composite repair capability is currently limited to one small facility. Andersen facilities can support only minor protective coating repair capability for a small contingent of aircraft with a minimal flying schedule. Andersen does not have the extensive maintenance infrastructure required to support a home station Global Hawk capability along with a CBP, TTF, TSP, and aerospace ground equipment (AGE). Repair of aircraft components along scheduled isochronal and corrosion inspections/maintenance necessitates new facilities for corrosion control. The existing Cargo Deployment Facility (CDF) is in the footprint of the new facility, and will be relocated to an existing facility, which will be renovated to accommodate the CDF.

IMPACT IF NOT PROVIDED: Without this facility, Andersen will be unable to provide adequate low observable, corrosion control, and composite repairs to support a Continuous Bomber Presence (CBP), Tanker Task Force (TTF), and the Theater Security Packages (TSP). Lack of this facility would significantly reduce readiness, and could result in degradation of operational capability, and may increase potential for a serious mishap.

ADDITIONAL: This project meets the criteria/ scope specified in Air Force Handbook 32-1084, Facility Requirements, F-22 Facilities Requirements Plan Revision W, 2008, and PACAF Logistics Facilities Planning Guide. This project was authorized in the 2015 National Defense Authorization Act; therefore this project only seeks the appropriation to fund this project. Preliminary analysis of reasonable options for satisfying this requirement indicated only one option will meet mission needs, new construction. Therefore, an economic analysis certificate of exemption has been completed. 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, dated 1 March 2013. Base Civil Engineer: (671) 366-7101. Low Observable/ Corrosion Control/ Composite Repair Shop:2,289 SM = 24,643

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
JRM ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM	PAR LOW OBSERVABLE/CORROSION CONTROL/COMPOSITE REPAIR SHOP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-159	1366/AJJY133028	AUTH: 0 APPN: 34,400

SF; Cargo Deployment Facility: 1,216 SM = 13,089 SF.

JOINT USE CERTIFICATION: This facility can be used by other components on "as available" basis; however, scope is based on AF requirements.

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
JRM ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM	PAR LOW OBSERVABLE/CORROSION CONTROL/COMPOSITE REPAIR SHOP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-159	1366/AJJY133028	AUTH: 0 APPN: 34,400

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	11-JUL-11
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2015	100%
* (d) Date 35% Designed	30-MAR-12
(e) Date Design Complete	28-SEP-12
(f) 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 -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	2,064
(b) All Other Design Costs	1,032
(c) Total	3,096
(d) Contract	2,580
(e) In-house	516
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	18 MAR

* 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3400	2017	50
FURNISHINGS AND EQUIPMENT	3400	2017	200

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DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2016
APPROPRIATIONS LANGUAGE

FY2016 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 $1,389,185 to remain available until September 30, 2020: Provided that, of this amount, not to exceed $89,164,000 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 her determination and the reasons therefor.

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION: EIELSON AIR FORCE BASE ALASKA	4. COMMAND: PACIFIC AIR FORCES	5. AREA CONST COST INDEX 2.22

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	172	1707	404							2,283
END OF FY 2019	173	1705	390							2,268

7. INVENTORY DATA ($000)	
a. Total Acreage: 19,789	
b. Inventory Total as of : (30 Sep 14)	3,278,667
c. Authorization Not Yet in Inventory:	58,860
d. Authorization Requested in this Program: (FY2016)	71,400
e. Planned in Next Four Year Program:	124,000
f. Remaining Deficiency:	218,900
g. Grand Total:	3,751,827

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
171-212	F-35A Flight Sim/Alter Squad Ops/AMU Facility	3,160	SM	37,000	May-14	Sep-15
821-117	Rpr Central Heat & Power Plant Boiler Ph3	120,000	LB	34,400	Design/Build	
		TOTAL		71,400		

9a. Future Projects: Typical Planned Next Four Years:

141-181	ADAL A-10 Shelters/Three Extensions	4,166	SM	13,000
141-181	Upgrade Aggressor Shelters	9,485	SM	10,000
141-181	Aircraft Shelters/Hangars	3,588	SM	48,000
141-753	Renovate Aggressor Squad Ops	186	SM	2,000
171-618	ADAL Field Training Detachment Facility	1,598	SM	8,000
171-623	Weapons Load Training	1,545	SM	2,000
211-111	Add to Corrosion Control Hangar	9,290	SM	5,000
211-111	Upgrade Phase Shop	9,290	SM	2,000
211-111	Upgrade Fuel Cell Hangar	1,213	SM	2,000
211-157	Engine Storage Facility	418	SM	4,000
212-212	Munitions PGM Assembly/Testing	697	SM	3,000
214-425	Add to POL R-11 Maintenance Bay	1,579	SM	1,000
218-712	Add to AGE Facility	167	SM	1,000
422-264	Hayman Igloos	1,200	SM	23,000
		TOTAL		124,000

9b. Real Property Maintenance Backlog This Installation: ($M) 176

10. Mission or Major Functions:Eielson AFB is home to the 354th Fighter Wing. Its mission is to train, deliver, maintain and support combat power across the globe while taking care of our people, their families and our infrastructure; it is host to an operations group with an F-16 squadron, and maintenance, mission support and medical groups, as well as 10 tenant units, to include Alaska's Air National Guard 168th Air Refueling Wing.

11. Outstanding Pollution and Safety (OSHA Deficiencies):

a. Air Pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA	F-35A FLIGHT SIM /ADAL SQD OPS/AMU

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27142	171-212	1703/FTQW163011	37,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				28,367
FLIGHT SIMULATOR FACILITY (171-212)	SM	3,010	7,886	(23,737)
ADD SQD OPS/AMU (141-753)	SM	187	6,460	(1,208)
ALTER SQD OPS/AMU (141-753)	SM	2,448	1,194	(2,923)
SUSTAINABLE & ENERGY MEASURES	LS			(499)
SUPPORTING FACILITIES				5,025
UTILITIES	LS			(2,500)
PAVEMENTS	LS			(500)
SITE PREP/SITE IMPROVEMENTS	LS			(1,200)
COMMUNICATIONS	LS			(750)
ENVIRONMENTAL REMEDIATION	LS			(75)
SUBTOTAL				33,392
CONTINGENCY (5.0%)				1,670
TOTAL CONTRACT COST				35,061
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				2,279
TOTAL REQUEST				37,340
TOTAL REQUEST (ROUNDED)				37,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(90,250.0)

10. Description of Proposed Construction: Construct Flight Simulator facility with reinforced concrete foundation meeting Alaska seismic and frost heaving requirements, structural steel frame with insulated metal skin, and standing seam metal roof. Includes six simulator bays, training classrooms, secure work areas, fire suppression/detection, pavements, parking site improvements, utilidor duct tie-ins, contaminated soil remediation and all necessary supporting facilities for a complete and useable facility. Add to and alter Squadron Operations/Aircraft Maintenance Unit (AMU) to support F-35A operations and to construct a Special Access Program Facility (SAPF), using economical design and construction methods to accommodate the mission of the facilities. These facilities will be designed as permanent construction in accordance with DoD, Unified Facility Criteria (UFC) 1-200-01 and will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01 and JFAN 6/9 Physical Security Standards for SAPF construction.

Air Conditioning: 105 Tons

11. Requirement: 3010 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Construct a F-35A flight simulator facility and add to/alter a F-35A Squadron Operations and AMU Facility (New Mission)

REQUIREMENT: Eielson AFB is the preferred alternative to be the second Main Operating Base (MOB) for the F-35A aircraft. An adequately sized and configured flight simulator facility is required to support the beddown of F-35A aircraft.

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA	F-35A FLIGHT SIM /ADAL SQD OPS/AMU

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27142	171-212	1703/FTQW163011	37,000

The Simulator Training Facility will house facilities to teach pilots how to use the aircraft in combat. The F-35A squadron(s) requires space for an auditorium, classrooms, six simulator bays, brief/debriefing rooms, a classified server room, locker and restroom space, offices and storage space for F35A pilot flight simulator training. Also, to provide an adequately sized and configured SAPF by addition/alteration to building 4110 to support beddown of the 1st squadron of F-35A aircraft at Eielson. The SAPF shall provide physical security that meets Joint Air Force, Army, and Navy (JAFAN 6/9) provisions. The SAPF shall provide a controlled benign environment that maintains the room temperature between 15 and 29 degrees Celsius and the humidity between 40% and 70% with the Autonomic Logistics System (ALIS) equipment operating 24 hours a day.

CURRENT SITUATION: Eielson AFB (EAFB), AK does not currently have a flight simulator facility on base that meets the requirements for the F-35A Simulator Training. Such a facility is required to support simulator training of pilots accompanying the arrival of F-35A aircraft starting in FY19/3. An existing simulator facility is too small and will be used for Field Training Detachment purposes. A former squadron operations/AMU facility can be altered to support F-35 operations but an addition to the facility is required to support the SAPF requirement. Eielson does not have a SAPF on base that meets the requirement for F-35A simulator training and the ALIS. A new facility is required to provide the simulator training of pilots accompanying the arrival of 48 F-35 aircraft starting in the third quarter of FY19.

IMPACT IF NOT PROVIDED: The 354 FW will not be able to provide F-35A simulation training to assigned aircrews. They must travel to CONUS sites that have training facilities. However, without aircrew certification, the crews could be grounded and not able to deploy if necessary. There will be insufficient facility security for highly sensitive information associated with the F-35 ALIS system. The 354th FW will not be able to beddown the F-35A aircraft without the Squad Ops/AMU addition/alteration to provide required security and accredited area for the protection of Special Access Program information pertaining to the F-35A aircraft or the ALIS.

ADDITIONAL: This project meets applicable criteria/scope specified in AF Manual 32-1084, "Facility Requirements" and the F-35A Facility Requirements Documents. All known alternate options were considered during the development of this project. An analysis of reasonable options for accomplishing this project was completed indicating a mix of new construction and alteration to be the best solution. A certificate of exception has been prepared. 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, dated 1 March 2013. Base Civil Engineer: DSN 317 377-5213. Flight Simulator Facility 3010 SM = 32,387 SF; Alter Sqd Ops/AMU Facility 2448 SM = 26,340 SF; Add Sqd Ops/AMU facility 187 SM = 2012 SF.

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 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA	F-35A FLIGHT SIM /ADAL SQD OPS/AMU

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	171-212	1703/FTQW163011	37,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	30-SEP-14
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2015	15%
* (d) Date 35% Designed	31-MAR-15
(e) Date Design Complete	30-SEP-15
(f) 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 -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	2,220
(b) All Other Design Costs	1,110
(c) Total	3,330
(d) Contract	2,775
(e) In-house	555
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	19 JUN

* 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
4 SIMULATORS	3010	2015	60,000
2 SIMULATORS	3010	2016	30,000
COMMUNICATIONS EQUIPMENT	3400	2018	150
FURNISHINGS	3400	2018	100

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA	REPAIR CENTRAL HEAT AND POWER PLANT BOILER PH 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	821-117	1703/FTQW133001	34,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				26,474
STRUCTURAL RENOVATIONS (821-117)	SM	400	1,176	(470)
BOILER CONSTRUCTION	LB	120,000	204	(24,480)
FLUE CONSTRUCTION	LS			(23)
CONTROLS	LS			(187)
START-UP COMMISSIONING AND RELATED ACTIVITIES	LS			(449)
ELECTRICAL	LS			(278)
SUSTAINMENT AND ENERGY MEASURES	LS			(587)
SUPPORTING FACILITIES				3,206
DEMOLITION OF INTERIOR STRUCTURES	LS			(609)
SITE PREPARATION	LS			(50)
SITE IMPROVEMENTS	LS			(113)
MODIFICATIONS OF EXISTING FACILITIES	LS			(167)
ENVIRONMENTAL REMEDIATION	LS			(1,577)
RAIL SPUR	LM	300	2,300	(690)
SUBTOTAL				29,680
CONTINGENCY (5.0%)				1,484
TOTAL CONTRACT COST				31,164
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				2,026
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				1,187
TOTAL REQUEST				34,377
TOTAL REQUEST (ROUNDED)				34,400

10. Description of Proposed Construction: Repair by replacing boiler #4 with a new 120,000 pound per hour (lb/hr) boiler. The project includes, but is not limited to: demolition of existing boiler #4; provide new 120,000 lb/hr spread stoker coal fired steam boiler and all auxiliary equipment to support boiler operation to include, but not limited to: coal feed; ash handling, condensate handling; deaerator and boiler feedwater; mud drum pre-heat; soot blowers; boiler combustion air and forced draft fans; boiler flue gas; induced draft fans and stacks; as well as extensions of the plant control; electrical; glycol and steam systems; and installation of emission control equipment to make system fully operational. This project will provide new environmental control elements as part of the boiler package, including a selective catalytic reduction system (utilizing aqueous ammonia used to control nitrogen oxide and dry flue gas desulfurization used to control sulfur dioxide) and a continuous emission monitoring system. A new rail spur of approximately 1000ft will be provided to accommodate storage and off-loading of ammonia and other chemicals required for the new environmental control systems. Project will utilize economical design and construction methods to

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA	REPAIR CENTRAL HEAT AND POWER PLANT BOILER PH 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	821-117	1703/FTQW133001	34,400

accommodate the mission of the facility to include demolition of the existing boiler. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC 1-200-01 and UFC 1-200-02). The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. Project shall meet all federal & state environmental regulations, including emissions discharge limits and disposal. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

11. Requirement: 600000 LB Adequate: 0 LB Substandard: 720000 LB

PROJECT: Repair Central Heat and Power Plant Boiler PH 3. (Current Mission)

REQUIREMENT: Reliable steam production is vital to ensure the base has a continuous supply of heat and electricity for base facilities. Boiler #4, currently derated to 100,000 lb/hr, is at the end of its service life and must be replaced. It must be replaced with a 120,000 lb/hr unit operating at the same steam pressure and temperature as the existing boiler. The project fits the long-term energy plan for the installation for reliability and redundancy. Project must meet EPA 40 CFR Part 60, AFI 32-1084, requirements of the current Eielson CHPP air permit with the State of Alaska, and applicable sections of the American Society of Mechanical Engineers Boiler & Pressure Vessel Code.

CURRENT SITUATION: Boiler #4, installed in 1951, has deteriorated well beyond the level of regular maintenance. Insulation and refractory brick have deteriorated significantly resulting in "hot spots" (weak spots) on the boiler casing forcing it to be derated to 100,000 lb/hr or 83% of its original capacity. Boiler tube failures are now common due to corrosion, erosion and long term exposure to high heat. The ash handling system has become unreliable due to age, wear and long term exposure to high heat. We have had three ash conveyor belt failures in the last year. Maintenance costs have skyrocketed due to the difficulty of obtaining out-of-production components and frequent mechanical failures. Any part needing replacement must be custom machined, resulting in outages that can last for several months until the parts arrive.

IMPACT IF NOT PROVIDED: Failure of boiler #4 is imminent. A critical failure of one boiler could result in days of lost heat and electrical generation. Due to the difficulty in acquiring spare parts, this will severely degrade Eielson's ability to provide heat and electrical power to facilities required to support Eielson's flying mission. During typical operations, Eielson's CH&PP provides all electrical power and steam heat for the base. Loss of heat and power during Eielson's sub-arctic winters, with temperatures as low as 65 degrees F below zero, would be devastating to facilities and the missions housed by them within hours. If the situation were deemed critical enough, the base would be forced to consider evacuating facilities due to a lack of heat and power. Once closed, the facilities would freeze and require many millions of dollars of repair to return to usable condition. Completing the planned replacement of all boilers will guarantee continued steam and power generation to support the flying mission.

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA	REPAIR CENTRAL HEAT AND POWER PLANT BOILER PH 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	821-117	1703/FTQW133001	34,400

ADDITIONAL: This project represents the third of a five phase initiative to replace six 50-year old boilers at Eielson's CH&PP with five new boilers over several years. A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs. Therefore, a complete economic analysis was not performed. A certificate of exemption has been prepared. There is no criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". However, this project does meet the criteria/scope specified in MIL HNBK 1190 as required by AF Manual 32-1084. 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, dated 1 March 2013. BASE CIVIL ENGINEER: (907)377-5213. Structural Renovations: 400 SM = 4304 SF.

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.

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EIELSON AIR FORCE BASE EIELSON SITE # 1 ALASKA	REPAIR CENTRAL HEAT AND POWER PLANT BOILER PH 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	821-117	1703/FTQW133001	34,400

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) All Other Design Costs	1,520
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	18 JUN
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE
3. INSTALLATION AND LOCATION: DAVIS-MONTHAN AIR FORCE BASE ARIZONA	4. COMMAND: AIR COMBAT COMMAND	5. AREA CONST COST INDEX 1.01

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	700	4937	843	58	78	0	29	373	704	7,722
END OF FY 2019	700	4937	843	58	78	0	29	373	704	7,722

7. INVENTORY DATA ($000)	
a. Total Acreage: 10,668	
b. Inventory Total as of : (30 Sep 14)	1,632,092
c. Authorization Not Yet in Inventory:	67,122
d. Authorization Requested in this Program: (FY2016)	16,900
e. Planned in Next Four Year Program:	0
f. Remaining Deficiency:	130,100
g. Grand Total:	1,846,214

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
218-712	HC-130J AGE Covered Storage	1,123 SM	4,700	Design/Build	
211-159	HC-130J Wash Rack	2,020 SM	12,200	Design/Build	
		TOTAL	16,900		

9a. Future Projects: Typical Planned Next Four Years:

NONE	TOTAL	0

9b. Real Property Maintenance Backlog This Installation: ($M) 186

10. Mission or Major Functions: Headquarters 12th Air Force; a wing with two fighter training squadrons responsible for training all A/OA-10 aircrews; one A/OA-10 fighter squadron, two EC-130 electronic combat squadrons, Combat Search and Rescue, a tactical air control wing; an Air Force Reserve HH-60 rescue squadron; and Air Force Material Command's Aerospace Maintenance and Regeneration Center.

11. Outstanding Pollution and Safety (OSHA Deficiencies):	
a. Air Pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
DAVIS-MONTHAN AIR FORCE BASE DAVIS MONTHAN AFB SITE # 1 ARIZONA	HC-130J WASH RACK

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27224	211-159	1650/FBNV113005	12,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				6,727
HC-130J WASH RACK, OPEN-AIR (211-159)	SM	2,020	2,669	(5,392)
WASH RACK EQUIPMENT/TOOL SHOP (211-161)	SM	461	2,603	(1,200)
SUSTAINABILITY AND ENERGY MEASURES	LS			(135)
SUPPORTING FACILITIES				3,907
UTILITIES	LS			(771)
SITE IMPROVEMENTS	LS			(133)
PAVEMENTS	LS			(2,720)
COMMUNICATIONS SUPPORT	LS			(80)
PASSIVE FORCE PROTECTION	LS			(28)
FALL PROTECTION AND ARREST SYSTEM	LS			(75)
HAZARDOUS WASTE CONTAINMENT SYSTEMS	LS			(100)
SUBTOTAL				10,634
CONTINGENCY (5.0%)				532
TOTAL CONTRACT COST				11,165
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				636
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				425
TOTAL REQUEST				12,227
TOTAL REQUEST (ROUNDED)				12,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				40

10. Description of Proposed Construction: Construct a HC-130J aircraft wash rack utilizing economical design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC 1-200-01). Project includes structure, fire detection/protection, utilities, site improvements, landscaping, parking, concrete facility aprons, walkways, pavements demolition, and all other necessary support. Wash Rack Shop facility fire detection/suppression, utilities, site improvements, landscaping, parking, concrete facility aprons, walkways, pavements demolition, and all other necessary support. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 20 Tons

11. Requirement: 8564 SM Adequate: 3388 SM Substandard: 0 SM

PROJECT: Construct a HC-130J Wash Rack. (New Mission)

REQUIREMENT: Adequate space is required to process HC-130J aircraft for washing

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
DAVIS-MONTHAN AIR FORCE BASE DAVIS MONTHAN AFB SITE # 1 ARIZONA	HC-130J WASH RACK

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27224	211-159	1650/FBNV113005	12,200

maintenance in support of Personnel Recovery (PR) assets. The facility will provide aircraft washing capabilities in support of corrosion control functions. There must be adequate aircraft pavements for towing, maneuvering and parking of aircraft during maintenance activities. Provide tow way capability from edge of existing ramp to Wash Rack aircraft access. A shop facility is required for administrative space and equipment/tool storage. Aircraft began arriving in FY11/3Q; all combat coded aircraft are now present.

CURRENT SITUATION: There are currently no facilities on the installation large enough that can be modernized or renovated to accept the HC-130J wash rack requirements as part of the HC-130J recapitalization effort. Personnel are required to carry out their corrosion control functions in undersized and inadequate facilities. Different than standard C-130 variants, the HC-130J is constructed of differing material and also requires engine removal for corrosion control activities. The project requirement and scope were identified as part of the HQ ACC Facilities Site Survey 16-20 April 2007 and the HQ ACC SATAF, May 2009 and February 2010.

IMPACT IF NOT PROVIDED: Adequate facilities will not be available to perform essential HC-130J maintenance operations forcing inadequate and high risk workarounds. The potential for significant degradation of mission performance and capabilities will be increased until eventual total loss of mission capability is realized due to aircraft non-availability.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". An analysis of reasonable alternatives to meet this requirement (status quo, renovation, new construction) has been completed and new construction is the only viable option to meet this requirement. A certificate of exemption has been prepared. 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, dated 1 March 2013. Base Civil Engineer: (520) 228-340. (HC-130J Wash Rack: 2,020 SM = 21,743 SF; Wash Rack Equipment/Tool Shed: 461 SM = 4,962 SF)

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

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DAVIS-MONTHAN AIR FORCE BASE DAVIS MONTHAN AFB SITE # 1 ARIZONA	HC-130J WASH RACK

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27224	211-159	1650/FBNV113005	12,200

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used -

(3) All Other Design Costs 488

(4) Construction Contract Award 16 FEB

(5) Construction Start 16 MAR

(6) Construction Completion 17 SEP

(7) Energy Study/Life-Cycle analysis was/will be performed YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNITURE/WORKSTATIONS/FILES	3400	2017	15
COMMUNICATIONS	3400	2017	25

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
DAVIS-MONTHAN AIR FORCE BASE DAVIS MONTHAN AFB SITE # 1 ARIZONA	HC-130J AGE COVERED STORAGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27224	218-712	1650/FBNV113008	4,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				1,818
HC-130J AGE STORAGE FACILITY	SM	1,123	1,587	(1,782)
SUSTAINABILITY AND ENERGY MEASURES	LS			(36)
SUPPORTING FACILITIES				2,251
UTILITIES	LS			(358)
PAVEMENTS/DEMOLITION	LS			(1,475)
SITE IMPROVEMENTS	LS			(278)
COMMUNICATIONS SUPPORT	LS			(80)
PASSIVE FORCE PROTECTION MEASURES	LS			(60)
SUBTOTAL				4,069
CONTINGENCY (5.0%)				203
TOTAL CONTRACT COST				4,273
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				244
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				163
TOTAL REQUEST				4,679
TOTAL REQUEST (ROUNDED)				4,700)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(35

10. Description of Proposed Construction: Construct a HC-130J AGE (Aerospace Ground Equipment) Covered Storage Facility utilizing economical design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC 1-200-01). Project includes storage facility, utilities, site improvements, landscaping, parking, screen walls, concrete facility aprons, walkways, pavement demolition, and all other necessary support. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 0 Tons

11. Requirement: 13894 SM Adequate: 2452 SM Substandard: 1719 SM

PROJECT: Construct HC-130J AGE Covered Storage Facility. (New Mission)

REQUIREMENT: Adequate and properly configured space is required to provide AGE storage in support of Personnel Recovery (PR) operational missions and training. The AGE facility will store non-powered and powered equipment, and provide capability to inspect, maintain, repair and service the equipment to sustain and increase the readiness of the PR Center of Excellence community. This project requirement and scope was identified as part of the HQ ACC Facilities Site Survey 16-20 April 2007.

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
DAVIS-MONTHAN AIR FORCE BASE DAVIS MONTHAN AFB SITE # 1 ARIZONA	HC-130J AGE COVERED STORAGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27224	218-712	1650/FBNV113008	4,700

CURRENT SITUATION: There are no facilities available or that can be efficiently modernized to accept the AGE storage requirement as part of the Personnel Recovery weapon system beddown; HC-130J recapitalization. Personnel Recovery maintenance personnel are required to carry out their daily functions in inadequate facilities, and due to a lack of space, perform work and store equipment on the ramp in harsh environmental conditions.

IMPACT IF NOT PROVIDED: Adequate facilities will not be available to perform essential PR AGE storage operations forcing inadequate and high risk workarounds. The potential for significant degradation of mission performance and capabilities, including damage to equipment, will be increased until eventual total loss of mission capability is realized due to aircraft non-availability. PR will not be able to generate aircraft without the appropriate support from the AGE mission.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". An analysis of reasonable alternatives to meet this requirement (status quo, renovation, new construction)has been completed and new construction is the only viable option to meet this requirement. A certificate of exemption has been prepared. 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, dated 1 March 2013. Base Civil Engineer: (520) 228-3401; (HC-130J AGE Storage Facility: 1,123 SM = 12,085 SF).

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

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
DAVIS-MONTHAN AIR FORCE BASE DAVIS MONTHAN AFB SITE # 1 ARIZONA	HC-130J AGE COVERED STORAGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27224	218-712	1650/FBNV113008	4,700

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) All Other Design Costs	188
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	17 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMM EQUIPMENT	3400	2016	35

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION: LUKE AIR FORCE BASE ARIZONA	4. COMMAND: AIR EDUCATION AND TRAINING COMMAND	5. AREA CONST COST INDEX 0.98

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	317	2877	840	119	627	0	934	6232	907	12,853
END FY 2019	309	2804	676	119	627	0	934	6232	907	12,608

7. INVENTORY DATA ($000)	
a. Total Acreage: 3,710	
b. Inventory Total as of : (30 Sep 14)	1,573,231
c. Authorization Not Yet in Inventory:	93,299
d. Authorization Requested in this Program: (FY2016)	56,700
e. Planned in Next Four Year Program:	66,800
f. Remaining Deficiency:	30,000
g. Grand Total:	1,820,030

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY2016)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
126-926	F-35A ADAL Fuel Offload Facility	4	EA	5,000	Design/Build	
211-177	F-35A Sq Ops/AMU/Hangar/Sq 4	7,110	SM	33,000	Design/Build	
211-177	F-35A Aircraft Maintenance Hangar/Sq 3	2,828	SM	13,200	Design/Build	
422-275	F-35A Bomb Build-Up Facility	9,406	SM	5,500	Design/Build	
		TOTAL		56,700		

9a. Future Projects: Typical Planned in Next Four Years:

131-111	Communications Facility	3,537	SM	21,000
141-753	F-35A Squadron Operations Facility/Sq 5	2,070	SM	11,000
141-753	F-35A Squadron Operations Facility/Sq 6	2,070	SM	11,800
211-154	F-35A Aircraft Maintenance Unit 5/6	4,791	SM	23,000
		TOTAL		66,800

9b. Real Property Maintenance Backlog This Installation: ($M)	208

10. Mission or Major Functions: An F-16 and F-35 flying training wing which conducts flight and crew chief training for the Combat Air Force and Air Control training.

11. Outstanding pollution and Safety (OSHA) Deficiencies:	
a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
LUKE AIR FORCE BASE LUKE A F BASE SITE # 1 ARIZONA	F-35A ADAL FUEL OFFLOAD FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27597	126-926	2517/NUEX093009	5,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				3,152
TRUCK OFFLOADING SKIDS (126926)	EA	3	589,879	(1,770)
MODIFY MANIFOLD PIPING (125554)	LS			(1,320)
SUSTAINABILITY AND ENERGY MEASURES	LS			(62)
SUPPORTING FACILITIES				1,310
UTILITIES	LS			(250)
PAVEMENTS	LS			(100)
SITE IMPROVEMENTS	LS			(460)
ENVIRONMENTAL REMEDIATION	LS			(500)
SUBTOTAL				4,462
CONTINGENCY (5.0%)				223
TOTAL CONTRACT COST				4,685
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				267
TOTAL REQUEST				4,952
TOTAL REQUEST (ROUNDED)				5,000

10. Description of Proposed Construction: Modify existing fuel bulk storage piping manifold to allow simultaneous issue and receipt to and from fuel storage area. Install three truck offloading skids. Provide the necessary site improvements and utility upgrades to produce a complete and usable facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 0 Tons

11. Requirement: 4 EA Adequate: 1 EA Substandard: 3 EA

PROJECT: F-35A ADAL Fuel Offload Facility (New Mission)

REQUIREMENT: Modification to the fuel bulk storage piping manifold is required to support the Joint Strike Fighter (JSF) F-35A aircraft bed down at Luke AFB. The fuel lines and manifolds connecting the bulk storage area and day tanks must be modified to enable the simultaneous issue and receipt to and from the storage area. The current configuration routinely isolates the 30,000 barrel tank and the 10,000 barrel tank during receipts leaving only the day tanks, 24% of the total base storage, to provide aircraft fuel support while fuel is received. In addition, three tank truck offloading skids are required.

CURRENT SITUATION: The current fuels infrastructure is not flexible enough to meet the anticipated 240% JP-8 daily demand rate increase from the current F-16 requirement. TO 42B-1-1, para. 3.7 requires operators to observe a minimum eight hour settling time for fuel received to ensure product quality. Without this piping modification, product settling times will not be consistently observed and

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
LUKE AIR FORCE BASE LUKE A F BASE SITE # 1 ARIZONA	F-35A ADAL FUEL OFFLOAD FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27597	126-926	2517/NUEX093009	5,000

may lead to degradation of product quality. The current tank truck offload header allows only one commercial truck to be offloaded at a time. This single tank truck offloading header is also collocated with the truck fillstands so fuel cannot be simultaneously offloaded while resupplying base refueling units. The addition and dispersal of offloading headers will provide the versatility to support aircraft demands while performing tank truck receipts. These offloading headers will also provide sufficient resupply capacity during periods when the pipeline is out of service to support the base flying mission.

IMPACT IF NOT PROVIDED: The existing fuel infrastructure and fuel issue capabilities will not be able to support the projected number of F-35A aircraft, adversely impacting F-35A training operations.

ADDITIONAL: The scope of this project is based on the Joint Strike Fighter Facilities Requirements Documents (FRD) developed by the Lockheed-Martin Aeronautics Company and Air Force Manual 32-1084, Facilities Requirements. An economic analysis of reasonable options is currently being prepared comparing alternatives of status quo, renovation, addition/alteration and new construction. Preliminary analysis shows that ADAL is the most feasible alternative. 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, dated 1 March 2013. Base Civil Engineer: (623) 856-6135. Fuel Offload Facility: 3 OL (EA).

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.

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LUKE AIR FORCE BASE LUKE A F BASE SITE # 1 ARIZONA	F-35A ADAL FUEL OFFLOAD FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27597	126-926	2517/NUEX093009	5,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	21-MAY-14
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2015	15%
* (d) Date 35% Designed	27-FEB-15
(e) Date Design Complete	30-SEP-15
(f) 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 -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	**($000)**
(a) Production of Plans and Specifications	300
(b) All Other Design Costs	150
(c) Total	450
(d) Contract	375
(e) In-house	75
(4) Construction Contract Award	**16 FEB**
(5) Construction Start	**16 MAR**
(6) Construction Completion	**17 SEP**

* 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:
N/A

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
LUKE AIR FORCE BASE LUKE A F BASE SITE # 1 ARIZONA	F-35A AIRCRAFT MAINTENANCE HANGAR (SQUADRON 3)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27597	211-177	2517/NUEX123005	13,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITY				8,778
MAINT DOCK S/A	SM	2,828	3,043	(8,606)
SUSTAINABILITY AND ENERGY MEASURES	LS			(172)
SUPPORTING FACILITIES				2,694
UTILITIES	LS			(485)
PAVEMENTS	LS			(1,165)
SITE IMPROVEMENTS	LS			(291)
COMMUNICATIONS REQUIREMENTS	LS			(209)
RELOCATE STORM SEWERS	LS			(44)
DEMOLITION, VERTICAL/ENVIRON REMEDIATION	SM	871	574	(500)
SUBTOTAL				11,472
CONTINGENCY (5.0%)				574
TOTAL CONTRACT COST				12,046
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				687
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				459
TOTAL REQUEST				13,191
TOTAL REQUEST (ROUNDED)				13,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				2,196

10. Description of Proposed Construction: Construct a 6 bay Aircraft Maintenance Hangar. Work will include a High Expansive Foam (HEF) fire suppression system in a facility using a steel-framed structure, concrete slab and foundation system, masonry block exterior walls, and standing seam metal roof. Work will include F-35A-unique electrical receptacles at each aircraft position with associated power distribution system, aircraft cooling units (ACUs) at each aircraft position with associated pop-up power and cooling infrastructure, and hangar lighting. Partially demolish one facility (871 SM). Reroute storm drain lines that cross the project site. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 0 Tons

11. Requirement: 30317 SM Adequate: 24395 SM Substandard: 5922 SM

PROJECT: Construct an F-35A Aircraft Maintenance Hangar facility. (New Mission)

REQUIREMENT: An Aircraft Maintenance Hangar is required to support the beddown of the Joint Strike Fighter (JSF) F-35A aircraft. Flightline maintenance is semi-autonomous and responsible for the launch, service, on-equipment repair, inspection and recovery of primary mission aircraft. This facility will provide adequate maintenance area for unscheduled aircraft maintenance, latrines and mechanical equipment room required to support the aircraft and mission of the particular

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION, SITE AND LOCATION LUKE AIR FORCE BASE LUKE A F BASE SITE # 1 ARIZONA	4. PROJECT TITLE F-35A AIRCRAFT MAINTENANCE HANGAR (SQUADRON 3)	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27597	211-177	2517/NUEX123005	13,200

squadron. The F-35A requires ACUs at each aircraft position. These ACUs provide cooled air to heat-sensitive components on the aircraft during maintenance procedures. The hangar will provide 6 spaces for unscheduled maintenance.

CURRENT SITUATION: The base lacks adequate facilities to conduct squadron level maintenance for the third F-35A squadron mission. The operational squadrons are required to work, train, deploy, and fight as independent squadrons. The current squadron operations and AMU are geographically separated from their hangar maintenance facilities and prevents the squadron from training as a unit. Currently maintainers need to roll their tool carts up to half mile from their AMU to their maintenance hangar. This facility is late to need as aircraft for the 3rd Squadron begin arriving in Nov 2016, although there are short term workarounds, at the expense of unit cohesiveness and efficiency.

IMPACT IF NOT PROVIDED: Without this project being funded and executed in 2016, the required maintenance hangar space will not be available for F-35A aircraft maintenance causing delays in sortie generation. Work-arounds do not allow the squadron to train together and significantly impacts the training mission required to support the F-35A program at the Pilot Training Center. CY16-CY18 is a critical time in the beddown of the F-35A enterprise wide because of operational units standing up CONUS and OCONUS, all of which require PTC pilot production to be a maximum available capacity.

ADDITIONAL: The scope and criteria for this project is contained in the Joint Strike Fighter Facility Requirements Document (FRD) developed by the Lockheed-Martin Aeronautics Company and the Eglin and Luke AFB design analysis and drawings for the JSF Squad Operations/AMU/Hangar facility. As a new weapon system, Air Force manual 32-1084 does not adequately address the operational, training, and security requirements of the F-35A mission. A preliminary analysis of reasonable options was accomplished comparing alternatives of status quo, renovation and reuse, addition/alteration, and new construction. A full economic analysis of reasonable options comparing alternatives of status quo, renovation/reuse, addition/alteration, and new construction is underway. 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, dated 1 March 2013. Base Civil Engineer: (623) 856-6135. Hangar: 2,828 SM (30,439 SF).

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 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LUKE AIR FORCE BASE LUKE A F BASE SITE # 1 ARIZONA	F-35A AIRCRAFT MAINTENANCE HANGAR (SQUADRON 3)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27597	211-177	2517/NUEX123005	13,200

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used -

(3) All Other Design Costs 528

(4) Construction Contract Award 16 FEB

(5) Construction Start 16 MAR

(6) Construction Completion 17 SEP

(7) Energy Study/Life-Cycle analysis was/will be performed YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
AIRCRAFT COOLING UNITS	3400	16	1,500
FF&E	3400	17	696

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
LUKE AIR FORCE BASE LUKE A F BASE SITE # 1 ARIZONA	F-35A SQUADRON OPERATIONS/AMU/HANGAR (SQUADRON 4)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27597	211-177	2517/NUEX123004	33,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				21,721
SQ OPS/AMU (CAT CODE 141-753)	SM	3,963	3,181	(12,606)
MAINT DOCK S/A (CAT CODE 211-177)	SM	2,828	2,947	(8,334)
COVERED OUTDOOR STORAGE (CAT CODE 452-252)	SM	319	1,113	(355)
SUSTAINABILITY & ENERGY MEASURES	LS			(426)
SUPPORTING FACILITIES				7,399
UTILITIES	LS			(1,514)
PAVEMENTS	LS			(3,634)
SITE IMPROVEMENTS	LS			(908)
ELECTRICAL FEEDER AND SWITCHGEAR	LS			(191)
COMMUNICATIONS REQUIREMENTS	LS			(652)
DEMOLITION, VERTICAL	SM	1,389	360	(500)
SUBTOTAL				29,121
CONTINGENCY (5.0%)				1,456
TOTAL CONTRACT COST				30,577
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,743
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				1,165
TOTAL REQUEST				33,484
TOTAL REQUEST (ROUNDED)				33,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(4,259

10. Description of Proposed Construction: Build a combined Multi Story Squadron Operations and Aircraft Maintenance Unit (AMU) facility with attached 6 bay Aircraft Maintenance Hangar. Work will include a facility with fire suppression, a steel-framed structure, concrete slab and foundation system, masonry block exterior walls, standing seam metal roof and new electrical feeder including switchgear and breakers with redundant, right-sized capacity to support F-35 requirements. The facility includes hangar bay area, squadron operations areas including mission planning, pilot briefing rooms, administration, life support maintenance, aircraft maintenance unit ready room, support area, secure storage and AMU administrative areas. Demolish three facilities (1,389 SM). Work will include F-35A-unique electrical receptacles at each aircraft position with associated power distribution system, aircraft cooling units (ACUs) at each aircraft position with associated pop-up power and cooling infrastructure, fall arrest system, and hangar lighting. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

Air Conditioning: 160 Tons

11. Requirement: 29459 SM Adequate: 25496 SM Substandard: 3963 SM

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
LUKE AIR FORCE BASE LUKE A F BASE SITE # 1 ARIZONA	F-35A SQUADRON OPERATIONS/AMU/HANGAR (SQUADRON 4)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27597	211-177	2517/NUEX123004	33,000

PROJECT: Construct an F-35A Squadron Operations/Aircraft Maintenance Unit/Aircraft Hangar facility. (New Mission)

REQUIREMENT: A consolidated Squadron Operations and Maintenance facility with Aircraft Hangar is required to support the beddown of the Joint Strike Fighter (JSF) F-35A aircraft. The Operations portion of the facility is required to support the operations squadron and contains the space for flight planning, secure air crew briefing and debriefing areas, and training and administration of the squadron. Space must be provided for the storage, care and issue of flight crew life support system equipment and personal space is required for changing into and out of flight clothing. Flightline maintenance is semi-autonomous and responsible for the launch, service, on-equipment repair, inspection and recovery of primary mission aircraft. This facility will provide adequate area for maintenance, a tool crib, ready room, equipment issue area, classified vault storage area, equipment and administrative spaces required to support the aircraft and the mission of the particular squadron. The F-35A requires ACUs at each aircraft position. These ACUs provide cooled air to heat-sensitive components on the aircraft during maintenance procedures. The hangar will provide 6 spaces for scheduled and unscheduled maintenance.

CURRENT SITUATION: The base lacks adequate facilities and sufficient electrical power capacity to conduct and support squadron level maintenance and operations for the F-35A mission. The operational squadrons are required to work, train, deploy, and fight as independent squadrons. The current squadron operation and maintenance facilities are geographically separated and would prevent squadrons from training as a unit. Current squadron operations and aircraft maintenance units are undersized, in poor condition, do not contain enough secure space for pilot briefings and classified parts storage and are not configured properly for the JSF training needs. Adequate co-located hangar space for scheduled and unscheduled aircraft maintenance with the unique features required by the JSF to support F-35A maintenance do not exist.

IMPACT IF NOT PROVIDED: Without this project being funded and executed in 2016, the required maintenance and operations functions and personnel will not be operationally ready to receive a fourth squadron of F-35A's beginning in October 2018. Work-arounds would not allow the squadron to train together and would significantly impact the training mission required to support the F-35A program at the Pilot Training Center. By providing redundant electrical power capacity in this project in this cost-conscious environment, cost-avoidance will be realized in future F-35A projects.

ADDITIONAL: The scope and criteria for this project is contained in the Joint Strike Fighter Facility Requirements Document (FRD) developed by the Lockheed-Martin Aeronautics Company and the Eglin and Luke AFB design analysis and drawings for the JSF Squad Operations/AMU/Hangar facility. As a new weapon system, Air Force Manual 32-1084 does not adequately address the operational, training, and security requirements of the F-35A mission. A preliminary analysis of reasonable options was accomplished comparing alternatives of status quo, renovation and reuse, addition/alteration, and new construction and found new construction to be

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
LUKE AIR FORCE BASE LUKE A F BASE SITE # 1 ARIZONA	F-35A SQUADRON OPERATIONS/AMU/HANGAR (SQUADRON 4)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27597	211-177	2517/NUEX123004	33,000

the only viable option. A certificate of exception was prepared. 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, dated 1 March 2013. Base Civil Engineer: (623)856-6135. Squadron Operations/AMU: 3,963 SM (42,657 SF); Covered Outdoor Storage: 319 SM (3,434 SF); Hangar: 2,828 SM (30,439 SF).

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.

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LUKE AIR FORCE BASE LUKE A F BASE SITE # 1 ARIZONA	F-35A SQUADRON OPERATIONS/AMU/HANGAR (SQUADRON 4)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27597	211-177	2517/NUEX123004	33,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) All Other Design Costs	1,320
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	18 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS	3080	17	400
FF&E	3400	17	2,359
AIRCRAFT COOLING UNITS (ACUS)	3400	16	1,500

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
LUKE AIR FORCE BASE LUKE A F BASE SITE # 1 ARIZONA	F-35A BOMB BUILD-UP FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27597	422-275	2517/NUEX123002	5,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				3,498
BOMB PRELOAD STATION (442275)	SM	5,809	239	(1,388)
MUNITIONS HOLDING PAD (116662)	SM	1,486	239	(355)
SHELTER ON PAD (145921)	SM	2,090	784	(1,639)
ADMINISTRATION BUILDING (610144)	SM	21	2,659	(56)
SUSTAINABILITY AND ENERGY MEASURES	LS			(61)
SUPPORTING FACILITIES				1,280
UTILITIES	LS			(219)
PAVEMENTS	LS			(550)
SITE IMPROVEMENTS	LS			(307)
COMMUNICATIONS REQUIREMENTS	LS			(105)
SHELTER LIGHTNING PROTECTION, STATIC GROUND	LS			(100)
SUBTOTAL				4,778
CONTINGENCY (5.0%)				239
TOTAL CONTRACT COST				5,017
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				286
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				191
TOTAL REQUEST				5,494
TOTAL REQUEST (ROUNDED)				5,500)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(60

10. Description of Proposed Construction: Construct new Ancillary Explosive Facility, Bomb Preload Station/Munitions Assembly Conveyor to include all supporting infrastructure. Facility consists of concrete pad and a covered structure. New infrastructure requirements include new MSA perimeter fence with security lighting, two new roadways, and a concrete munitions holding pad with proper security and safety. Additional requirement includes an administrative facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 3 Tons

11. Requirement: 2 EA Adequate: 1 EA Substandard: 0 EA

PROJECT: Construct an F-35A Bomb Build-Up Facility. (New Mission)

REQUIREMENT: Construct new Ancillary Explosive Facility, Bomb Preload Station/ Munitions Assembly Conveyor (MAC II) Pad, Cat Code 422-275 to include all supporting infrastructure. Facility consists of concrete pad 250'x250' rated at 3,000 PSI, and a covered structure 60' x 150' (26' minimum height access from all sides). Covered structure must be positioned lengthwise paralleling West edge of

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
LUKE AIR FORCE BASE LUKE A F BASE SITE # 1 ARIZONA	F-35A BOMB BUILD-UP FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27597	422-275	2517/NUEX123002	5,500

pad, 25' from nearest South and West edges. Facility must be equipped with 110v/60mhz electrical outlets, static grounding system, area lighting, and a Overhead Wire Lightning Protection System (LPS) providing a zone-of-protection covering the entire 250' x 250' pad. New infrastructure requirements include 2,330' of new MSA perimeter fence with security lighting, two new roadways 25' in width totaling 1,525' in length, aligned with Thunderbolt Street to the West, Texan Street to the North and a 100'x160' concrete munitions holding pad . Additional requirement includes an administrative facility (not larger than 15' x 15') including one office equipped with HVAC, telephone and LAN computer access, surge protection, and latrine with sink, urinal, and commode. Windows are not required nor desired in munitions area facilities, if installed, windows must be blast resistant. A contract for construction of the facility must not be awarded prior to approval of an Explosive Site Plan for the proposed Ancillary Explosive Facilities by the DoD Explosive Safety Board (DDESB). The facility is required to be operational no later than July 2017.

CURRENT SITUATION: F-35 requirements cannot be met due to present size, siting, and stand-off of existing bomb build-up pad. No work-arounds will satisfy full mission requirements. The current bomb build-up pad is only 365 feet from an inhabited facility, limiting authorized amounts of HC 1.1 NEW capacity to 8,000 lbs; new mission requirements would drive a siting for 30,000 lbs capacity, and an intraline distance requirement of 560 feet, which is not feasible; therefore, the bomb build-up pad must be re-sited. The 22,000 lbs deficiency diminishes mission capability. Work-around would be to build the bombs on trailers, however due to spacing requirements this would create a LIMFAC by reducing production by 50 - 65% of anticipated F-35 2,000 lb-series requirements (24 bombs/day), to a maximum of eight bombs per day. The current bomb pad limits production to approximately 30% of the AF average. The current F-16 mission requires munitions that use the 500 lb general purpose bomb; these munitions can be assembled on trailers. However, the F-35 requires munitions in the 2,000 lb series. The current work-arounds that are utilized for the 500 lb series builds (trailer builds/pallet builds) would not be feasible due to the difference in size (500 lbs vs. 2000 lbs); therefore, the 2,000 lb series would need to be built on the MAC II. Currently, facility 1231 can only support a build of eight 2,000 lb series due to a reduction in authorized amounts of HC 1.1 NEW capacity (8,000 lbs) because of intraline distance; to support the F-35 syllabus this NEW limit would not suffice. This would create a production LIMFAC in support of F-35 requirements.

IMPACT IF NOT PROVIDED: Without this project being funded and executed in 2016, the bomb build-up production rate would drop to one-third of the required munitions to support the F-35A training mission, causing delays in sortie generation. Work-arounds cannot mitigate production shortfalls.

ADDITIONAL: T.O. 35D2-17-11 requires a minimum pad size of 50' x 150'. This does not take into account the space required to stage components, position empty and full munitions trailers and provide space for munitions handling equipment. Munitions Assembly Procedures T.O. 11A-1-63 and AF TTP 3-3 state the ideal pad size for a bomb build operation is 250' x 250'. As a new weapon system, Air Force

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
LUKE AIR FORCE BASE LUKE A F BASE SITE # 1 ARIZONA	F-35A BOMB BUILD-UP FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27597	422-275	2517/NUEX123002	5,500

manual 32-1084 does not adequately address the operational, training, and security requirements of the F-35A mission. A economic analysis of reasonable options comparing alternatives of status quo, renovation/reuse, addition/alteration, and new construction was performed finding new construction to be the best option. 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, dated 1 March 2013. Base Civil Engineer: (623) 856-6135. Bomb Preload Station: 5,809 SM=6,948 SY. Munitions Holding Pad: 1,486 SM=1,778 SY. Shelter on Pad: 2,090 SM=22,497 SF. Admin Building: 21 SM = 226 SF.

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.

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
LUKE AIR FORCE BASE LUKE A F BASE SITE # 1 ARIZONA	F-35A BOMB BUILD-UP FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27597	422-275	2517/NUEX123002	5,500

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) All Other Design Costs	220
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	17 SEP
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNISHINGS AND EQUIPMENT	3400	2017	60

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION:	4. COMMAND:	5. AREA CONST COST INDEX
USAF ACADEMY COLORADO	UNITED STATES AIR FORCE ACADEMY	1.08

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	929	1011	2483	0	182	0	21	4400	190	9,216
END FY 2019	902	872	2223	0	182	0	21	4400	190	8,790

7. INVENTORY DATA ($000)	
a. Total Acreage: 53,276	
b. Inventory Total as of : (30 Sep 14)	2,936,161
c. Authorization Not Yet in Inventory:	30,890
d. Authorization Requested in this Program: (FY2016)	10,000
e. Planned in Next Four Year Program:	57,800
f. Remaining Deficiency:	36,000
g. Grand Total:	3,070,851

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
730-838	Construct Front Gates Force Protection Enhancements	2	EA	10,000	Design/Build	
		TOTAL		10,000		

9a. Future Projects: Typical Planned Next Four Years:

171-853	Transonic Wind Tunnel Facility	5,512	SM	25,200
724-433	Consolidate Cadet Preparatory School Dorm	6,522	SM	32,600
		TOTAL		57,800

9b. Real Property Maintenance Backlog This Installation: ($M)	187

10. Mission or Major Functions: Responsible for providing education and training for cadets to become Air Force officers; a training wing including three flying training squadrons supporting parachuting and glider aircraft; and an air base wing

11. Outstanding pollution and Safety (OSHA Deficiencies:	
a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
USAF ACADEMY U S A F ACADEMY SITE # 1 COLORADO	FRONT GATES FORCE PROTECTION ENHANCEMENTS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
86076	730-837	3368/XQPZ094013	10,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				7,308
NORTH GATE FORCE PROTECTION	EA	1	3,200,000	(3,200)
SOUTH GATE FORCE PROTECTION	EA	1	4,000,000	(4,000)
SUSTAINABILITY AND ENERGY MEASURES	LS			(108)
SUPPORTING FACILITIES				1,408
UTILITIES	LS			(400)
SITE IMPROVEMENTS	LS			(650)
PAVEMENTS	LS			(200)
UTILITIES CONNECTION FEE (ELECTRIC)	LS			(36)
AT/FP PASSIVE MEASURES	LS			(72)
COMMUNICATION	LS			(50)
SUBTOTAL				8,716
CONTINGENCY (5.0%)				436
TOTAL CONTRACT COST				9,152
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				522
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				349
TOTAL REQUEST				10,022
TOTAL REQUEST (ROUNDED)				10,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				25

10. Description of Proposed Construction: Construct canopies at the existing north and south gates traffic lanes (inbound and outbound) utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, 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 Unified Facilities Criteria (UFC) 1-200-01. Enhance the entry roads with passive anti-terrorism/force protection (AT/FP) measures, roadway delineation, roadway pull-off/search areas, signage, POV inspection facilities, POV inspection bays and occupant shelters, site improvements, landscaping, and all other supporting facilities. This project will comply with DoD anti-terrorism/force protection requirements per UFC 4-010-01.

11. Requirement: 2 EA Adequate: 0 EA Substandard: 2 EA

PROJECT: Construct front gates force protection enhancements. (Current Mission)

REQUIREMENT: Base entry control requirements have become more stringent from the heightened security environment brought about by terrorist attacks on the United States at home and abroad. This project provides for a physical line of a "defense in depth" strategy and is in accordance with the United States Air Force Academy's

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
USAF ACADEMY U S A F ACADEMY SITE # 1 COLORADO	FRONT GATES FORCE PROTECTION ENHANCEMENTS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
86076	730-837	3368/XQPZ094013	10,000

(USAFA's) anti-terrorism/force protection (AT/FP) plan. USAFA must provide greater force protection to improve life, safety and health conditions of USAFA personnel. The USAFA's open base policy requires a balance between maintaining an open base posture while providing protection to base populace with almost a million tourists annually touring the #1 tourist attraction in the state of Colorado. Security Forces Squadron (SFS) personnel conduct checks of all visitor vehicles entering the installation at both gate locations. Visitors are allowed on base with a valid driver's license. There are times when checks require visitors to exit their vehicles and SFS personnel search the interiors of vehicles. These canopies and POV inspection facilities will protect visitors and SFS personnel from harsh/ unpredictable weather of Colorado. The project will provide extended curbs, boulders, rock lined ditches and landscaping along the sides of entrance gates to prevent vehicles from driving around gates. This project will delineate a crisp/clean roadway edge, improve shoulders and screen parking at Santa Fe Trail/Pass and Identification.

CURRENT SITUATION: The US Air Force Academy was closed to visitors on 11 September 2001. On 1 October 2006, the US Air Force Academy Superintendent opened USAFA to visitors through the north and south entry gates from 0800-1800, 365 days a year. Visitors need a valid driver's license to gain access to USAFA. USAFA is a potential target for terrorist activity, since USAFA showcases the US Air Force and the United States of America. In 2005 and 2008, the Air Force Vulnerability Assessment (AFVA) found USAFA deficient, since there are no protective covers over the installation entrance gates. Weather conditions require a canopy over entrance gates to allow SFS personnel to conduct search and entry control procedures in a controlled/protected environment. The main gates do not adequately meet current Air Force standards as defined in the Air Force Installation Entry Control Facilities Design Guide. Three areas contributing to the poor image of the US Air Force Academy entrance gates are: non-adequate AT/FP (including lack of entrance gate canopies for visitor/vehicle searches in a protected environment), lack of delineation of the entry approach and lack of visual cueing/poor signage.

IMPACT IF NOT PROVIDED: Security Forces Squadron personnel will continue to perform vehicle search operations under adverse/risky conditions from traffic during side-of-the-road searches. Without this construction, personal vehicles will not be searched adequately, since the inclement weather will rush security forces personnel through the search of vehicle procedures. Lack of adequate greeting and searching of commercial and visitor vehicles will place the entire base populace and visitors in jeopardy. USAFA will continue to be written up by Air Force Vulnerability Assessment inspectors for not having a protective cover over our installation gates or passive containment along the roadside. The poor appearance of the US Air Force Academy entrance gates will continue to deter potential visitors to come and see the story of the US Air Force Academy and the US Air Force.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
USAF ACADEMY U S A F ACADEMY SITE # 1 COLORADO	FRONT GATES FORCE PROTECTION ENHANCEMENTS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
86076	730-837	3368/XQPZ094013	10,000

ADDITIONAL: This project has been sited according to the USAFA Entry Gate Area Development Plan. This project meets the criteria and scope specified in Air Force Manual 32-1084, "Facility Requirements." Space requirements are determined from the Entry Control Facilities Design Guide (18 February 2003). Comply with DODI 5200.08, change 2, effective April 8, 2014, "Security of DOD Installations and Resources and the DOD physical Security Review Board". All options were considered during the development of this project. New construction was the only option to meet the Antiterrorism/Force Protection requirements of the installation. Sustainable principles will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02. Base Civil Engineer phone: (commercial) (719) 333-2660.

JOINT USE CERTIFICATION: Mission requirements, operational considerations, and location are incompatible with use by other components. However, all tenants on this installation are benefitted by this project.

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
USAF ACADEMY U S A F ACADEMY SITE # 1 COLORADO	FRONT GATES FORCE PROTECTION ENHANCEMENTS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
86076	730-837	3368/XQPZ094013	10,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used -

(3) All Other Design Costs 400

(4) Construction Contract Award 16 FEB

(5) Construction Start 16 APR

(6) Construction Completion 17 AUG

(7) Energy Study/Life-Cycle analysis was/will be performed YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
UNINTERRUTIBLE POWER SUPPLY	3400	2017	25

DD FORM 1391, DEC 99 **Previous editions are obsolete.** **Page No.**

1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE
INSTALLATION AND LOCATION CAPE CANAVERAL AIR FORCE STATION FLORIDA	COMMAND: AIR FORCE SPACE COMMAND	5. AREA CONST COST INDEX 0.92

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 Sep 14	114	160	1416	0	0	0	72	170	1316	3,248
END FY 2019	114	160	1411	0	0	0	72	170	1316	3,243

7. INVENTORY DATA ($000)

a. Total Acreage: 16,239	
b. Inventory Total as of : (30 Sep 14)	793,399
c. Authorization Not Yet in Inventory:	0
d. Authorization Requested in this Program: (FY2016)	21,000
e. Planned in Next Four Years Program:	0
f. Remaining Deficiency:	210,500
g. Grand Total:	1,024,899

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
131-111	Range Communications Facility	3,216	SM	21,000	Design Build	
		TOTAL		21,000		

9a. Future Projects: Typical Planned Next Four Years:

NONE	TOTAL	0

9c. Real Property Maintenance Backlog This Installation ($M) 103.6

10. Mission or Major Functions: The 45th Space Wing provides mission-ready forces for the 14th Air Force and the U.S. Strategic command to safely execute and maintain spacelift operations and operate, maintain, and secure the Eastern Range. It supports ballistic missile test launches, aircraft tests, and other ballistic munitions evaluations. It also supports civil spacelift operations, commercial spacelift operations licensed by the Federal Aviation Administration, and other space launch activities in accordance with National Space Policy and with the provision of public law.

11. Outstanding pollution and Safety (OSHA) Deficiencies:

a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
PATRICK AIR FORCE BASE CAPE CANAVERAL AIR FORCE STATION SITE # 1 FLORIDA	RANGE COMMUNICATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
31476	131-111	1555/DBEH063000	21,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				12,847
RANGE COMMUNICATIONS FACILITY (131-111)	SM	3,216	3,825	(12,301)
ANTENNA TOWER (131-116)	LS			(250)
SUSTAINABILITY AND ENERGY MEASURES	LS			(296)
SUPPORTING FACILITIES				5,403
UTILITIES	LS			(1,323)
PAVEMENTS	LS			(800)
SITE IMPROVEMENTS	LS			(600)
COMMUNICATIONS	LS			(1,400)
DEMOLITION	SM	1,656	280	(464)
DIESEL GENERATOR	LS			(256)
ENVIRONMENTAL ABATEMENT	LS			(560)
SUBTOTAL				18,250
CONTINGENCY (5.0%)				912
TOTAL CONTRACT COST				19,162
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,092
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				730
TOTAL REQUEST				20,985
TOTAL REQUEST (ROUNDED)				21,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(134,000

10. Description of Proposed Construction: Construct facility utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. Facility will be designed as a permanent construction in accordance with Unified Facilities Criteria (UFC) 1-200-01. Facility includes a Very Early Smoke Detection Apparatus (VESDA) system and clean agent fire suppression system in accordance with ETL 01-18, security system, pavements, site work, and utilities. A 20 - foot square base, laced leg, self-supporting, 150 foot high microwave tower including aircraft warning, working platform antenna mounting, associated conduits and cable trays. Adequately sized diesel generator, signal and power filters. An above ground vaulted fuel tank is required for this project. Demolish 1,656 SM of facilities which occupies the space where the new facility will be constructed. The existing comm faclity will be demolished using O&M fund after the new facility is operational. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 140 Tons

11. Requirement: 3216 SM Adequate: 0 SM Substandard: 4872 SM

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
PATRICK AIR FORCE BASE CAPE CANAVERAL AIR FORCE STATION SITE # 1 FLORIDA	RANGE COMMUNICATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
31476	131-111	1555/DBEH063000	21,000

PROJECT: Construct a Range Communications Facility. (Current Mission)

REQUIREMENT: Construct a new, state of the art, multi-level facility to accommodate modern communications equipment. The facility will provide direct operational launch support as well as support to squadron administration, maintenance, and other operations functions. The new Range Communications Facility will be rated to withstand a Category 3 hurricane.

CURRENT SITUATION: The current mission critical facility houses major systems: Core sonnet rings, Combat Information Transport System/45th Space Wing Local Area Network (LAN) sonnet ring, microwave systems, Digital Range Communications System switches, Range Tandem switches, Video switches and distribution, Integrated Digital Network Exchange/Defense Information Systems Agency (IDNX/DISA) nodes, Public Announcement (PA)/Aural warning, Nortel Base Information Data distribution system (BIDDS) Telephone switch and numerous other systems. Facility 1641 was built in 1957; since 1970 there have been seven additions to the facility, expanding the original 351 SM to its present 3,216 SM. The facility is cooled and humidity-controlled by 11 separate air conditioning units within the facility, a situation that is both energy-inefficient and costly. A recent engineering evaluation identified structural deficiencies which need to be corrected. The post Tropical Storm Fay evaluation showed multiple foundation cracks, multiple leak points, insufficient sump pump capabilities and chronic long standing leak problems throughout the facility. The existing facility does not meet current AT/FP (Antiterrorism/Force Protection) requirements.

IMPACT IF NOT PROVIDED: The facility will continue to degrade due to the harsh coastal Florida environment and the operations and maintenance costs will continue to increase. Facility failure will directly impact eastern range launch operations.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". An economic analysis has been prepared comparing the alternatives of new construction, add/alter, and status quo operations. New construction was found to be the most cost effective option. 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. Base Civil Engineer phone: (commercial) (321) 494-4041. Range Communications Facility: 3,216 SM = 34,623 SF.

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.

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
PATRICK AIR FORCE BASE CAPE CANAVERAL AIR FORCE STATION SITE # 1 FLORIDA	RANGE COMMUNICATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
31476	131-111	1555/DBEH063000	21,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used -

(3) All Other Design Costs 840

(4) Construction Contract Award 16 FEB

(5) Construction Start 16 MAR

(6) Construction Completion 17 NOV

(7) Energy Study/Life-Cycle analysis was/will be performed YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3080	2017	32,000
COMMUNICATIONS EQUIPMENT	3080	2018	56,000
COMMUNICATIONS EQUIPMENT	3080	2019	21,000
COMMUNICATIONS EQUIPMENT	3080	2020	25,000

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST
EGLIN AIR FORCE BASE	AIR FORCE MATERIEL	COST INDEX
FLORIDA	COMMAND	0.86

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	718	2,653	3,871				494	128	637	8,501
END FY 2019	721	2,655	3,831				491	1000	652	9,350

7. INVENTORY DATA ($000)	
a. Total Acreage: 449,428	
b. Inventory Total as of : (30 Sep 14)	3,407,887
c. Authorization Not Yet in Inventory:	26,846
d. Authorization Requested in this Program: (FY2016)	8,700
e. Planned in Next Four Year Program:	116,100
f. Remaining Deficiency:	361,500
g. Grand Total:	3,921,033

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
610-281	F-35A Consolidated HQ Facility	3,107 SM	8,700		
		TOTAL	8,700		

9a. Future Projects: Typical Planned In Next Four Years:

316-333	Advanced Munitions Technology Complex	7,639 SM	57,000
721-312	Dormitories (288 RM)	288 RM	31,000
721-313	F-35A Student Dormitory	7,257 SM	21,000
722-351	F-35A Tech Training DFAC Addition	1,829 SM	7,100
		TOTAL	116,100

9b. Real Property Maintenance Backlog This Installation: ($M)	128.9

10. Mission or Major Functions: Eglin primary function is to support research, development, and test and evaluation (RDT&E) of conventional weapons and electronic systems. It also provides support for individual and joint training of operational units. The base is hometo the Air Armament Center (AAC), a unit of the air Force Material Command. It supports approximately 25 associate units, including 33rd Fighter Wing air Combat Command, 53rd Wing, Air Combat Command.

11. Outstanding pollution and Safety (OSHA) Deficiencies:	
a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
EGLIN AIR FORCE BASE EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION) FLORIDA	F-35A CONSOLIDATED HQ FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27597	610-281	1695/FTFA103902	8,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITY				6,282
CONSOLIDATED HEADQUARTERS FACILITY	SM	3,107	1,982	(6,159)
SUSTAINABILITY & ENERGY MEASURES	LS			(123)
SUPPORTING FACILITIES				1,275
SITE IMPROVEMENTS	LS			(299)
UTILITIES	LS			(380)
PAVEMENTS	LS			(407)
COMMUNCATIONS	LS			(126)
PASSIVE FORCE PROTECTION	LS			(63)
SUBTOTAL				7,557
CONTINGENCY (5.0%)				378
TOTAL CONTRACT COST				7,934
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				452
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				302
TOTAL REQUEST				8,689
TOTAL REQUEST (ROUNDED)				8,700
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				869

10. Description of Proposed Construction: Multi-story sprinkler-equipped facility consisting of a concrete foundation, split-faced concrete block over a steel frame and sloped standing seam metal roof. Project provides fire detection and protection, all utilities, HVAC, secure communications, site improvements, landscaping, parking, and necessary support areas. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

Air Conditioning: 100 Tons

11. Requirement: 24043 SM Adequate: 0 SM Substandard: 21029 SM

PROJECT: F-35A Consolidated Headquarters Facility. (New Mission)

REQUIREMENT: A consolidated headquarters facility is required to support the beddown of the Joint Strike Fighter (JSF) F-35A aircraft at Eglin AFB. The facility is required to house and support the command sections of the 33rd FW, 33rd OG, and 33rd MXG. The facility will also consolidate those unique wing and group staff functions into a single facility. This facility will serve as the focal point for the leadership functions of the 33rd FW training mission that consists of three US military services and the military services of 8 partner countries, as well as for the hosting of a myriad of dignitary and VIP visits from the United States and various allied countries. This facility will provide adequate area for the 33rd FW leadership functions and associated wing/staff functions and will

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
EGLIN AIR FORCE BASE EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION) FLORIDA	F-35A CONSOLIDATED HQ FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27597	610-281	1695/FTFA103902	8,700

consist of an administrative area, office space, Special Access Program spaces, staff/guest toilets, locker areas, janitor's closet and mechanical areas.

CURRENT SITUATION: The 33rd FW command sections and wing/staff functions are currently housed in several different facilities throughout the 33rd FW area. These facilities are over 50 years old, in poor condition, and are not configured properly to efficiently support the 33rd FW training mission requirements. A new headquarters facility would allow consolidation of all wing/group functions under one roof which would greatly enhance communications and improve efficiency.

IMPACT IF NOT PROVIDED: The 33rd Fighter Wing's command, administrative, operations, maintenance, and training missions will continue to function in numerous and marginal facilities. Without this facility, the F-35A beddown at Eglin cannot be effectively and efficiently implemented. This will significantly impact the training mission required to support the F-35 program.

ADDITIONAL: The criteria/scope for this project is contained in AFH 32-1084, "Facility Requirements". A preliminary analysis of reasonable options was accomplished comparing alternatives of status quo, renovation, addition/alteration, and new construction. It indicates the only option that will meet operational requirements is new construction. Because of this, a full economic analysis was not performed. A certificate of exception was prepared. 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, dated 1 March 2013. Base Civil Engineer: DSN 872-2876 (ext. 200). Consolidated Headquarters Facility: 3,107 SM = 33,426 SF.

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 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
EGLIN AIR FORCE BASE EGLIN AFB SITE # 1 (EGLIN MAIN AND RESERVATION) FLORIDA	F-35A CONSOLIDATED HQ FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27597	610-281	1695/FTFA103902	8,700

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) All Other Design Costs	348
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	17 SEP
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3400	2017	261
FURNISHINGS	3400	2017	608

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST
HURLBURT FIELD	AIR FORCE SPECIAL	COST INDEX
FLORIDA	OPERATIONS COMMAND	0.86

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 Sep 14	1,284	4,883	1868	0	0	0	200	966	437	9,638
END FY 2019	1,284	5,021	1859	0	0	0	188	958	444	9,754

7. INVENTORY DATA ($000)

Total Acreage: 6,634

Inventory Total as of : (30 Sep 14)	936,711
Authorization Not Yet in Inventory:	32,950
Authorization Requested in this Program: (FY2016)	14,200
Planned in Next Four Year Program:	0
Remaining Deficiency:	68,000
Grand Total:	1,051,861

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY2016)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
141-456	Add to 39 IOS Facility	3,385	SM	14,200	Mar-14	Aug-15
		TOTAL		14,200		

9a. Future Projects: Typical Planned Next Four Years:

NONE	TOTAL	0

9b. REAL PROPERTY MAINTENANCE BACKLOG THIS INSTALLATION: ($M) 120

10. MISSION OR MAJOR FUNCTIONS: Headquarters Air Force Special Operations Command; a Special Operations Wing (SOW) with AC-130, MC-130, MH-53, CV-22, Non-Standard Aviation (NSA), and Aviation Foreign Affairs Special Operations Squadrons (SOS); Air Force Special Operations School; a Special Tactics Group (STG); Air Force Command and Control Training & Innovation Group; a RED HORSE squadron; and the Air Force Combat Weather Center.

11. OUTSTANDING POLLUTION AND SAFETY (OSHA) DEFICIENCIES:

a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
HURLBURT FIELD HURLBURT FIELD SITE # 1 FLORIDA	ADD TO 39 IOS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
31476	141-456	1693/FTEV123007	14,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				11,570
ADD TO 39 IOS FACILITY	SM	3,385	3,350	(11,340)
SUSTAINABILITY AND ENERGY MEASURES	LS			(230)
SUPPORTING FACILITIES				1,285
UTILITIES	LS			(400)
PAVEMENTS	LS			(325)
SITE IMPROVEMENTS	LS			(230)
STORM DRAINAGE	LS			(130)
PASSIVE FORCE PROTECTION MEASURES	LS			(80)
COMMUNICATIONS	LS			(120)
SUBTOTAL				12,855
CONTINGENCY (5.0%)				643
TOTAL CONTRACT COST				13,497
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				769
TOTAL REQUEST				14,267
TOTAL REQUEST (ROUNDED)				14,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				3,750.0

10. Description of Proposed Construction: Construct an addition to an existing 39 IOS facility utilizing conventional design and construction methods to accommodate the mission of the facility. Functional areas include Sensitive Compartmented Information Facility (SCIF), training classrooms, administrative support, special purpose labs, information operations, storage, and all necessary communications and support utilities. Includes fire alarm, mass notification system, parking, all necessary utilities, and site improvements. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 80 Tons

11. Requirement: 5305 SM Adequate: 1920 SM Substandard: 0 SM

PROJECT: Addition to 39th Information Operation Squadron (IOS) Facility. (New Mission)

REQUIREMENT: An energy-efficient, properly configured operations and training facility to execute all 39 IOS existing cyberspace mission responsibilities in addition to expanded training requirements in support of the Cyber Mission Forces (CMF) initiative. The new facility is required to ensure CMF personnel are prepared to execute cyberspace roles and responsibilities as directed by USCYBERCOM. The expanded and renovated facility is also necessary to provide the

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
HURLBURT FIELD HURLBURT FIELD SITE # 1 FLORIDA	ADD TO 39 IOS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
31476	141-456	1693/FTEV123007	14,200

39 IOS personnel with a facility conducive to proper administration, information operations, and special purpose labs.

CURRENT SITUATION: The existing facility does not have adequate space for operations and training of required Information Operations (IO), Influence Operations (IFO), and Cyber staff and students or to store/stage Command, Control, Communications, Computers and Information (C4I) systems to support CMF. There are no adequate facilities on base that could be used or converted to satisfy this requirement. Off-base storage has been rented for nine years to accommodate non-C4I storage requirement. CMF personnel were expected to be trained and operational starting in FY14 making this expanded facility late to need.

IMPACT IF NOT PROVIDED: Without this project, CMF training shortfalls could impede or delay fielding cyberspace weapons systems as required by USCYBERCOM. The untimely implementation of state-of-the-art offensive (e.g., Network Attack System (NAS)) and defensive (e.g., Cyberspace Vulnerability Assessment (CVA)/Hunter, Air Force Cyberspace Defense (ACD)) weapons systems, may drive significant strategic, operational and tactical risks given that hostile activities targeting the U.S. in cyberspace are on-going and growing in frequency, sophistication and effectiveness. Student and staff growth will be restricted by space availability, therefore course expansion and subject improvement will be limited. Interim work around is to throttle student throughput, instructor shifts, duel occupancy work centers and mobile training teams. The Cyber Forces Concept of Operations and Employment (CFCOE) requires that services conduct individual and collective training for CMF work roles after FY15. Without these facility improvements, there will be a severe shortage in training allocations for the Intermediate Network Warfare Training (INWT) and CVA/Hunter courses and AFSPC will not be able train enough cyber operators to meet AF and CMF requirements. The INWT deficit is FY15 = 66, FY16 = 247 and FY17 = 165. The CVA/Hunter deficit is FY15 =99, FY16 = 238 and FY17 = 192.

ADDITIONAL: This project meets applicable criteria/scope specified in AFMAN 32-1084, "Facility Requirements." An Economic Analysis has been accomplished which supports the addition to the existing 39 IOS facility. 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. Base Civil Engineer phone: 850-884-7701.

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 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HURLBURT FIELD HURLBURT FIELD SITE # 1 FLORIDA	ADD TO 39 IOS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
31476	141-456	1693/FTEV123007	14,200

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	20-MAR-14
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2015	35%
* (d) Date 35% Designed	29-AUG-14
(e) Date Design Complete	31-AUG-15
(f) 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 -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	852
(b) All Other Design Costs	426
(c) Total	1,278
(d) Contract	895
(e) In-house	383
(4) Construction Contract Award	16 JAN
(5) Construction Start	16 MAR
(6) Construction Completion	17 AUG

* 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
C4I EQUIPMENT	3400	2017	2,000
PREWIRED WORKSTATIONS	3400	2017	1,000
COMMUNICATION PRE-WIRING	3400	2017	750

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE
INSTALLATION AND LOCATION JB PEARL HARBOR HICKAM HAWAII	COMMAND: PACIFIC AIR FORCES	5. AREA CONST COST INDEX 2.08

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
AS OF 30 SEP 14	1,085	4,338	1,100	0	0	0	0	0	0	6,523
END FY 2019	1,019	4,077	1,042	0	0	0	0	0	0	6,138

7. INVENTORY DATA ($000)	
a. Total Acreage: 3,002	
b. Inventory Total as of : (30 Sep 14)	578,502
c. Authorization Not Yet in Inventory:	10,122
d. Authorization Requested in this Program: (FY2016)	46,000
e. Planned in Next Four Year Program:	0
f. Remaining Deficiency:	247,100
g. Grand Total:	881,724

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
141-183	F-22 Fighter Alert Facility	2,855 SM	46,000	Design/Build	
		TOTAL	46,000		

9a. Future Projects: Typical Planned Next Four Years:

NONE	TOTAL	0

9b. Real Property Maintenance Backlog This Installation: ($M) 299

10. Mission or Major Functions: Wing supporting C-17's (8 and 1 Back-up), C-37A (1), C-40 (1), KC-135 (4 remaining falls off books 2017) aircraft and hosting Headquarters, Pacific Air Forces. The installation also hosts an Air National Guard wing consisting of an F-15A/B squadron, a KC-135 air refueling squadron, and a C-130H airlift squadron. Other major activities include an Air Intelligence Agency intelligence group and an Air Mobility Support group.

11. Outstanding pollution and Safety (OSHA) Deficiencies:	
a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE HICKAM AFB SITE # 1 HAWAII	F-22 FIGHTER ALERT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27138	141-183	2345/KNMD043004	46,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				6,966
AIRCRAFT ALERT SHELTER (141-183)	SM	2,153	1,520	(3,274)
ALERT/MAINTENANCE CREW QUARTERS (141-459)	SM	646	5,179	(3,346)
ENTRY CONTROL POINT (730-837)	SM	56	3,759	(210)
SUSTAINABILITY & ENERGY MEASURES	LS			(137)
SUPPORTING FACILITIES				32,873
UTILITIES	LS			(1,604)
PAVEMENTS	SM	16,866	481	(8,113)
SITE IMPROVEMENTS	LS			(4,456)
SENTRY ALOHA BUILDING	SM	470	8,064	(3,790)
SENTRY ALOHA OPEN STORAGE	SM	1,840	191	(351)
HUSH HOUSE PAD	SM	2,673	1,684	(4,500)
HUSH HOUSE RELOCATION	EA	1	1,500,000	(1,500)
DEMOLITION	SM	3,525	257	(905)
PARKING LOT	SM	2,634	285	(750)
SOIL REMEDIATION/ARCH MONITORING	LS			(794)
COMMUNICATIONS	LM	6,700	907	(6,076)
COMMISSIONING	LS			(33)
SUBTOTAL				39,839
CONTINGENCY (5.0%)				1,992
TOTAL CONTRACT COST				41,831
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				2,719
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				1,594
TOTAL REQUEST				46,143
TOTAL REQUEST (ROUNDED)				46,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(450

10. Description of Proposed Construction: Excavation, backfill, grading, concrete footing and special foundations, structural steel frame roofing system, aircrew and maintenance personnel quarters, alert aircraft shelter, fire detection/suppression protection, explosive proof environment maintenance area, emergency generator support, supporting aircraft ramps and taxiway pavements, and all necessary supporting utilities. Provide security with new entry control facility and necessary fencing/detection to secure the area. Relocation of Aloha Sentry mission and hush house from development area, archaeological monitoring, asbestos abatement and contaminated soil remediation. Utilize economical design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost cover

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE HICKAM AFB SITE # 1 HAWAII	F-22 FIGHTER ALERT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27138	141-183	2345/KNMD043004	46,000

effective. This project demolishes nine facilities at 3,525 SM. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

Air Conditioning: 50 Tons

11. Requirement: 2855 SM Adequate: 0 SM Substandard: 1475 SM

PROJECT: Construct an F-22 Fighter Alert Facility. (New Mission)

REQUIREMENT: The beddown of F-22s brings a new mission capability to Hickam, which requires properly sited, adequately constructed, sized and configured aircraft alert facility to provide sufficient aircraft protection, safety of all alert personnel, and for alert aircraft to be airborne within a prescribed time. Alert facility will support up to six aircraft (up to four on alert and two spares). This mission also needs supporting facilities to shelter crews, have maintenance capabilities and provide security. Once new facility is complete, the old facility will be demolished to increase runway safety. New utilities will need to be extended into this area to include a lift station and larger communication ducts to support this operation. HVAC system commissioning is required by UFC 4-030-01 and UFC 3-410-01FA, and will be done by an independent HVAC commissioning authority, who will be involved from the design through the construction and warranty stages of the project, as specified in UFC 4-030-01.

CURRENT SITUATION: The existing alert facility was constructed over 50 years ago for F-86 aircraft, before Hickam AFB and Honolulu International Airport (HIA) were combined to use one main runway. The critical demands of the Homeland Defense mission and the age and extreme deterioration of the facility emphasizes the need for a new facility that is properly sited, sized and oriented to meet safety and operational concerns such as weapons orientation, explosive safety and protection of personnel using facility. These issues are compounded by the fact the facility is currently sited in the runway clearzone. Multiple waivers are required to operate at this inadequate site, including waivers for insufficient wing tip clearance, insufficient height clearance, insufficient interline (IL) distance clearance, insufficient intermagazine (IM) distance between explosives mounted on separate aircraft, and no blast walls to mitigate IL non-compliance. Living space for air crews and operations maintenance crews is extremely undersized and completely void of blast protection. The aircraft shelter is not deep enough to protect open cockpits from blown rain. In addition, the existing siting of the alert facility makes meeting aircraft response times impossible. A new site is needed to meet HIA runway clearzone and explosive criteria. This new site plan will relocate the existing hush house out of the explosive area to better secure the area and ensure low-frequency vibrations from it do not activate munitions. In addition, the current Sentry Aloha mission, which currently uses this area, will need to be relocated to better secure the site and to remove a non-related function from the explosive area. This site is located near areas of known weak compressive soil strength and will require special foundations.

IMPACT IF NOT PROVIDED: Inadequate facility must continue to be used, adversely impacting safety of civilian population, aircrew, and maintenance personnel as well

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE HICKAM AFB SITE # 1 HAWAII	F-22 FIGHTER ALERT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27138	141-183	2345/KNMD043004	46,000

as homeland defense alert mission operations and readiness. This will further increase maintenance on F-22 aircraft since the current facility is too small to adequately shelter the aircraft.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs, new construction. Therefore, a complete economic analysis was not performed and a certificate of exception has been prepared. High supporting costs are due to necessary relocation of facilities. 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, dated 1 March 2013. BASE CIVIL ENGINEER: 808-448-2855. Construct: aircraft alert shelter 2,153 SM = 23,166SF alert/maintenance crew quarters 646 SM = 6,954 SF.

JOINT USE CERTIFICATION: This facility is programmed for joint use with the Hawaii Air National Guard; however, it is fully funded by the Air Force.

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE HICKAM AFB SITE # 1 HAWAII	F-22 FIGHTER ALERT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27138	141-183	2345/KNMD043004	46,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used -

(3) All Other Design Costs 1,840

(4) Construction Contract Award 16 FEB

(5) Construction Start 16 MAR

(6) Construction Completion 18 JUN

(7) Energy Study/Life-Cycle analysis was/will be performed YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNISHINGS	3400	2017	250
COMM EQUIPMENT	3400	2017	200

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION MCCONNELL AFB KANSAS	4. COMMAND: AIR MOBILITY COMMAND	5. AREA CONST COST INDEX 0.92

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	367	2498	420	0	0	0	269	1675	474	5,703
END FY 2019	367	2415	414	0	0	0	269	1673	451	5,589

7. INVENTORY DATA ($000)	
a. Total Acreage: 3,615	
b. Inventory Total as of : (30 Sep 14)	1,525,284
c. Authorization Not Yet in Inventory:	253,480
d. Authorization Requested in this Program: (FY 2016)	4,300
e. Planned in Next Four Years Program:	18,700
f. Remaining Deficiency:	36,100
g. Grand Total:	1,837,864

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
132-133	KC-46A ADAL Deicing Pads	10,424 SM	4,300	Jun-14	Sep-15
		TOTAL	4,300		

9a. Future Projects: Typical Planned in Next Four Years:

112-211	KC-46A Repair Taxiway D	11,677 SM	5,300
149-962	Air Traffic Control Tower	42 VM	11,200
171-212	KC-46A ADAL/Flight Simulator Facility, Ph 2	1,478 SM	2,200
		TOTAL	18,700

9b. Real Property Maintenance Backlog This Installation ($M)	49.6

10. Mission or Major Functions: McConnell Air Force Base is the host to the 22nd Air Refueling Wing (ARW) and home to the 184 ARW and 931 ARG. The wing's primary mission is to provide Global Reach by conducting air refueling and airlift when and wherever needed. To do this the wing is charged to develop and maintain the capability to conduct air refueling operations supporting command objectives in any part of the world, in any condition or climate.

11. Outstanding pollution and Safety (OSHA) Deficiencies:	
a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
MCCONNELL AIR FORCE BASE MCCONNELL SITE # 1 KANSAS	KC-46A ADAL DEICING PADS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
41221	132-133	2786/PRQE165114	4,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				2,818
DEICING PADS (2)	SM	10,424	265	(2,762)
SUSTAINABILITY AND ENERGY MEASURES	LS			(55)
SUPPORTING FACILITIES				1,095
SITE IMPROVEMENTS	LS			(325)
ROAD REPAIRS	LS			(225)
UTILITIES	LS			(545)
SUBTOTAL				3,913
CONTINGENCY (5.0%)				196
TOTAL CONTRACT COST				4,108
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				234
TOTAL REQUEST				4,342
TOTAL REQUEST (ROUNDED)				4,300

10. Description of Proposed Construction: Add to and alter existing concrete deicing pads with asphalt shoulders, enlarge existing effluent collection and storage system, pumps, replace existing taxiway edge lights, include appropriate airfield pavement markings and all other necessary work for a complete and usable facility. All work will comply with DoD, AF, and State of Kansas policies and guidelines regarding deicing fluid collection and disposal. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC 1-200-01 and UFC 1-200-02). This project will comply with DoD anti-terrorism/force protection requirements per unified facilities criteria.

11. Requirement: 10424 SM Adequate: 0 SM Substandard: 8054 SM

PROJECT: ADAL 3 existing KC-135 Deicing Pads to create 2 KC-46A capable Deicing Pads (New Mission)

REQUIREMENT: Two new deicing pads properly sized and configured to safely deice the KC-46A airframe to meet mission requirements and required environmental compliance directives of the Base National Pollutant Discharge Elimination System (NPDES) permit. The three existing pads will be reconfigured to provide two new pads built to the right size, maintaining the proper (breakaway) distance between aircrafts, and allowing for the deicing trucks to maintain the required safety zones. The new larger pads will capture the effluent from the larger airframe, and the larger containment collection system will capture the effluent/precipitation required. Area inlets, junction manholes and drain piping beneath the taxiway (part of the existing collection system) will remain.

CURRENT SITUATION: The 3 existing KC-135 deicing pads are undersized for the KC-46A and will not effectively capture the effluent run off for the larger KC-46A airframe while maintaining the required safety zone for deicing trucks maneuvering on the pads. The existing holding tank will be undersized to contain the estimated

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
MCCONNELL AIR FORCE BASE MCCONNELL SITE # 1 KANSAS	KC-46A ADAL DEICING PADS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
41221	132-133	2786/PRQE165114	4,300

effluent and projected precipitation requirements due to the larger size aircraft and pads.

IMPACT IF NOT PROVIDED: Without these facilities, McConnell AFB will not be able to provide simultaneous mission launches under icing conditions. The potential for significant degradation of mission performance and capabilities will be very high. There are no other facilities available to accommodate this requirement to support the new mission.

ADDITIONAL: This project meets the criteria/scope specified by the Air Force Site Activation Task Force Facilities Requirement Plan and applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". An analysis of reasonable alternatives to meet this requirement (status quo, renovation, new construction) was accomplished. The proposed project was determined to be the most effective option. 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 dated 1 March 2013. The Base Civil Engineer: Commercial (316) 759-5750. Category Code (132-133) Equipment Pad: 10,424 SM = 112,200 SF.

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.

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MCCONNELL AIR FORCE BASE MCCONNELL SITE # 1 KANSAS	KC-46A ADAL DEICING PADS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41221	132-133	2786/PRQE165114	4,300

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	18-FEB-14
(b) Parametric Cost Estimates used to develop costs	
(c) Percent Complete as of 01 JAN 2015	35%
(d) Date 35% Designed	02-JAN-15
(e) Date Design Complete	31-MAY-15
(f) 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 -	

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

	($000)
(a) Production of Plans and Specifications	258
(b) All Other Design Costs	129
(c) Total	387
(d) Contract	323
(e) In-house	65

(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAY
(6) Construction Completion	17 JUL

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

1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST
FORT MEADE	US ARMY INSTALLATION	COST INDEX
MARYLAND	MANAGEMENT COMMAND	1.00

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	273	205	794							1,272
End of FY 2019	330	262	851							1,443

7. INVENTORY DATA ($000)	
a. Total Acreage: 5,102	
b. Inventory Total as of : (30 Sep 14)	
c. Authorization Not Yet in Inventory:	251,000
d. Authorization Requested in this Program: (FY2016)	86,000
e. Planned in Next Four Years Program	0
f. Remaining Deficiency:	0
g. Grand Total:	337,000

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	UNIT	COST $,000	DESIGN START	STATUS CMPL
141-454	US Cyber Command JOC, Increment 3	22,410	SM	86,000	Dec-11	Sep-13
		TOTAL		86,000		

9b. Future Projects: Typical Planned Next Four Years:

CATEGORY CODE	PROJECT TITLE		COST $,000
	NONE	TOTAL	0

9c. Real Property Maintenance Backlog This Installation $(000) N/A

10. Mission or Major Functions: Provide base operating support for facilities and infrastructure, quality of life and protective services in support of Department of Defense activities and Federal agencies.

11. Outstanding pollution and Safety (OSHA Deficiencies:

a. Air Pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
FORT GEORGE G MEADE FORT GEORGE G MEADE MARYLAND	US CYBERCOM JOINT OPERATIONS CENTER-INC 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
11830	141-454	5004/PAYZ130011C	AUTH: 0 APPR: 86,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				274,633
JOINT OPERATIONS CENTER	SM	22,408	7,850	(175,898)
PARKING STRUCTURE	SM	23,488	671	(15,758)
CHILLER PLANT	SM	3,795	14,174	(53,789)
GENERATOR YARD	LS			(25,670)
SUSTAINABLE AND ENERGY MEASURES	LS			(3,518)
SUPPORTING FACILITIES				47,926
SITEWORK, FENCING, ROADS	LS			(5,886)
INFRASTRUCTURE AND CABLING	LS			(37,867)
ROAD IMPROVEMENT AND ACCESS CONTROL	LS			(4,172)
SUBTOTAL				322,558
CONTINGENCY (5.0%)				16,128
TOTAL CONTRACT COST				338,686
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				19,305
TOTAL REQUEST				357,991
TOTAL REQUEST (ROUNDED)				358,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				70,000.0

10. Description of Proposed Construction: Construct a USCYBERCOM Joint Operations Center (JOC) including parking structure (800 spaces), chiller plant, generator yard, and supporting facilities. The JOC will be built on the National Security Agency (NSA) East Campus at Fort George G. Meade, MD. The primary facility will be comprised of a multi-story structure, operations floor/battle bridge, analyst/planner collaboration areas, and other operations areas. The mission support areas provide joint staff offices, executive offices, machine rooms, storage, laboratories, meeting rooms, and other support functions. Project consists of core and shell structure and foundations; elevator conveyance systems; electrical/mechanical service and distribution components/systems; fire protection alarm/suppression; information technology infrastructure, communications, and security systems support infrastructure. Interior will include raised access floor systems, acoustically-rated interior partitions and ceilings, power, lighting, environmental control and communications. The entire structure will be built to Sensitive Compartmented Information Facility (SCIF) standards. Project includes redundant primary power, Uninterruptable Power Supply (UPS) systems, and full generator backup capacity to ensure continuity of operations 24 hours/day, 365 days/year. UPS and generator backup will be fully MILCON funded for building systems and mission equipment. This project requires comprehensive interior design. Site infrastructure will include primary electrical service to the site, storm water management, water, sewer, chilled water distribution, and telecommunications pathways. Perimeter security construction will extend existing

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
FORT GEORGE G MEADE FORT GEORGE G MEADE MARYLAND	US CYBERCOM JOINT OPERATIONS CENTER-INC 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
11830	141-454	5004/PAYZ130011C	AUTH: 0 APPR: 86,000

fence line and surveillance capabilities, with increased vehicle control capacity. Architect-Engineer services will be required during construction. The JOC will be constructed to LEED Silver. Enhanced building commissioning is required. Project will comply with DoD Force Protection UFC.

Air Conditioning: 4,000 Tons

11. Requirement: 22408 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Construct a multi-story Joint Operations Center along with supporting infrastructure and a parking structure. (New Mission)

REQUIREMENT: This facility is required to provide a critical joint operations environment necessary to support U.S. Cyber Command operations. The goal is to achieve the unity of effort required to prevent malicious, covert attempts to interrupt and compromise the functional capacity of the DoD networks. The process of monitoring, identifying, and countering these attacks will require a collaborative environment within which elements of all cyber activities can be represented, in a collocated manner while executing passive, active, and defensive network operations. This facility will incorporate new technologies and processes that will generate beneficial synergies through integration and collaboration. Through an open work environment that incorporates scalable, reconfigurable work spaces, cyber assets will be able to achieve both actual and virtual collaboration while maintaining their functional discipline. To meet these demands in a wholly independent manner with required levels of capacity/reliability, this facility will be supported by independent utility services for power, cooling and communications. In addition, all critical infrastructure will be constructed to provide redundancy.

CURRENT SITUATION: Currently, cyber activities in support of both the DoD and the nation are conducted individually in an NSA-centric structure. Network operations are prevented from realizing the full potential of the collaborative, cohesive work environments required for this initiative. To meet the immediate need, existing facilities are being reconfigured and supplemented through leased space. However, these efforts are limited by the availability of facilities with suitable locations, adequate AT/FP profiles, and power and cooling infrastructure capable of supporting mission critical activities.

IMPACT IF NOT PROVIDED: If the JOC is not provided, DoD's critical government and military network assets and infrastructure will continue to operate in a dispersed isolated manner with limited levels of functionality and security. Without the proposed collaborative capabilities of the JOC, DoD's network operations will become increasingly vulnerable to our adversaries. This project will provide the facility support necessary to assist in preventing potentially significant disruptions and intrusions to DoD's critical networks.

ADDITIONAL: NSA will serve as the design and construction manager for this project to be sited on NSA's Exclusive Use Area. The project has been coordinated with the installation facilities master plan and physical security plan. It complies with all required physical security and anti-terrorism standards. All required and anticipated physical security and antiterrorism protection measures are included. An Environmental Assessment has been completed that leverages the completed

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
FORT GEORGE G MEADE FORT GEORGE G MEADE MARYLAND	US CYBERCOM JOINT OPERATIONS CENTER-INC 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
11830	141-454	5004/PAYZ130011C	AUTH: 0 APPR: 86,000

Environmental Impact Study for the NSA campus. Alternative methods of meeting requirements have been explored during the development of this project. The economic analysis determined this project to be the only viable option to satisfy those requirements. Construction estimates include costs associated with construction on a controlled access site, clearances for personnel, labor inefficiencies associated with escort requirements, and other daily processes at NSA. Escorts are required for positive control of access to primary and secondary utilities, which service other critical NSA facilities. Stormwater management to mitigate environmental impact per environmental requirements are included. Facility will be designed to LEED Silver. This project is to be compliant with the current version of NSA's, Facilities Engineering Design Standards (FEDS).

Full authorization of $358M was provided in FY14 with an appropriation of $85M. FY15 appropriation was $166M. FY16 request for appropriation $86M. USCYBERCOM POC: Director of Logistics (J4), (443) 654-8124.

JOINT USE CERTIFICATION: This facility is programmed for joint use by all services; however, it is fully funded by the Air Force.

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
FORT GEORGE G MEADE FORT GEORGE G MEADE MARYLAND	US CYBERCOM JOINT OPERATIONS CENTER-INC 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
11830	141-454	5004/PAYZ130011C	AUTH: 0 APPR: 86,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	22-NOV-11
(b) Parametric Cost Estimates used to develop costs	
(c) Percent Complete as of 01 JAN 2013	35%
(d) Date 35% Designed	17-SEP-12
(e) Date Design Complete	30-AUG-13
(f) 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 -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	11,500
(b) All Other Design Costs	3,500
(c) Total	15,000
(d) Contract	13,000
(e) In-house	2,000
(4) Construction Contract Award	14 MAR
(5) Construction Start	14 APR
(6) Construction Completion	17 APR

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
EQUIPMENT/SECURITY/IT	3080	2016	64,000
FURNITURE/FURNISHINGS	3400	2016	6,000

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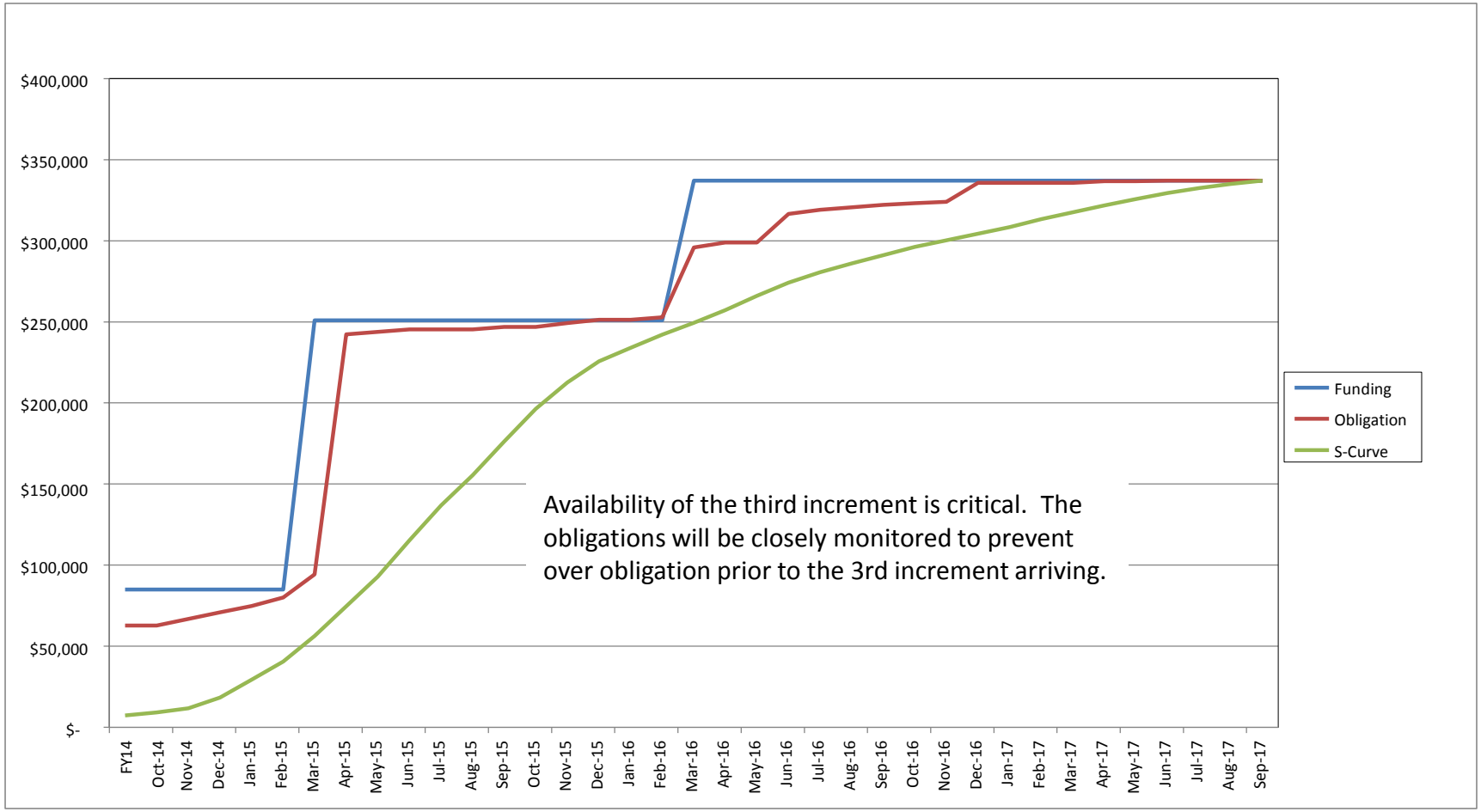
PROJECT SPENDING PLAN FOR INCREMENTALLY FUNDED PROJECT

US Cyber Command Joint Operations Center (JOC), Fort Meade MD

All Costs in Thousands ($000)



1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST
WHITEMAN AFB	AIR FORCE GLOBAL STRIKE	COST INDEX
MISSOURI	COMMAND	1.08

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	440	4271	1061	0	6	0	36	169	60	6,043
END FY 2019	440	4270	1061	0	6	0	36	169	60	6,042

7. INVENTORY DATA ($000)

a. Total Acreage: 4,948	
b. Inventory Total as of : (30 Sep 14)	1,139,846
c. Authorization Not Yet in Inventory:	9,617
d. Authorization Requested in this Program: (FY2016)	29,500
f. Planned in Next Four Years Program:	17,100
g. Remaining Deficiency:	461,700
h. Grand Total:	1,657,763

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
141-753	Consol Stealth Ops & Nuclear Alert Fac	7,357	SM	29,500	Aug-14	Oct-15
		TOTAL		29,500		

9a. Future Projects: Typical Planned Next Four Years:

130-142	Crash/Structural Fire Station		17,100
		TOTAL	17,100

9b. Real Property Maintenance Backlog This Installation: 62

10. Mission or Major Functions: Bomb Wing consisting of B-2 aircraft; Air Force Reserve A-10 aircraft.

11. Outstanding Pollution and Safety (OSHA Deficiencies):

a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
WHITEMAN AIR FORCE BASE WHITEMAN SITE # 1 MISSOURI	CONSOLIDATED STEALTH OPERATIONS & NUCLEAR ALERT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	3420/YWHG031002R2	29,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				21,636
AIR OPERATIONS FACILITY (141753)	SM	7,357	2,882	(21,203)
SUSTAINABILITY AND ENERGY MEASURES	LS			(433)
SUPPORTING FACILITIES				4,962
UTILITIES	LS			(2,129)
SITE IMPROVEMENTS	LS			(939)
PAVEMENTS	LS			(519)
DEMOLITION/ASBESTOS ABATEMENT	SM	7,107	92	(654)
COMMUNICATIONS SUPPORT	LS			(321)
BACKUP GENERATOR	LS			(400)
SUBTOTAL				26,598
CONTINGENCY (5.0%)				1,330
TOTAL CONTRACT COST				27,928
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,592
TOTAL REQUEST				29,519
TOTAL REQUEST (ROUNDED)				29,500
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				931.0

10. Description of Proposed Construction: Consolidated Stealth Operations & Nuclear Alert Facility utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. Facility shall include access roads, parking lots, sidewalks, emergency back-up power, communications support including sensitive compartmental information facility (SCIF) areas, fire detection and suppression, mass-notification, and all other necessary support. Facility will be designed as permanent construction in accordance with DoD Unified Facilities Criteria - UFC 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. Project will demolish 7,107SM including asbestos/lead paint abatement.

Air Conditioning: 575 Tons

11. Requirement: 7357 SM Adequate: 0 SM Substandard: 7107 SM

PROJECT: Consolidated Stealth Operations & Nuclear Alert Fac. (Current Mission)

REQUIREMENT: A facility that consolidates sortie-essential functions into a single mission-focused building. That facility shall, as a minimum, include the following: the 13th, 393rd, and 110th (ANG) Bomb Squadrons, Mission Planning, Intelligence, Scheduling, Standardization and Evaluation, Weapons, Survivability, Flight Records, Navigation, Operations briefing rooms, Weather and Airfield Operations, Alert Crew facilities for strategic readiness with beds and crew rest

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
WHITEMAN AIR FORCE BASE WHITEMAN SITE # 1 MISSOURI	CONSOLIDATED STEALTH OPERATIONS & NUCLEAR ALERT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	3420/YWHG031002R2	29,500

areas, and all sortie generation affiliated entities. The facility shall consolidate all flight and training tasks for each unit.

CURRENT SITUATION: Three systemic flaws exist with the current facility arrangement at Whiteman AFB; the first concerns pre-flight processing. Currently, aircrews begin mission preparation in B153, travel to B200 for life support and pre-takeoff briefings, then to B35 for weather and airfield briefings, and finally to B33 for final mission planning and preparation. With the current situation, aircrews are required to visit 4 facilities to prepare for sortie generation. They carry Top Secret and Special Access Required documents and information disks containing highly sensitive cryptographic material through these facilities, thus jeopardizing critical information to damage or loss. The second systemic flaw results from the geographic separation of flight entities that should work in close proximity: entities such as Mission Planning, Scheduling, Flight Records, Weather, and Airfield Operations. They are currently scattered between buildings 33, 35, 153, and 200, and this dispersal of functions inhibits sortie generation and readiness. During peacetime training air operations are conducted from B33; during combat sorties, from B200. This creates a division between how aircrew train and fight. The third deficiency driving the requirement for a new facility is the condition of the alert quarters for aircrew on strategic readiness. Since the existing alert facility, B6 (which is in the airfield clear zone and long overdue for demolition), is too distant to meet response time requirements, aircrew currently occupy alert trailers in the middle of the apron. These trailers are literally double-wides on blocks and are vulnerable to inclement weather, pervious to high-decibel sound prevalent on the apron which deprives pilots of adequate rest, and are unhardened. The new facility will provide adequate and secure sleeping and crew rest areas.

IMPACT IF NOT PROVIDED: Shuttling squadron personnel between four facilities will continue to impede sortie generation. Per the 509th OG, the current facility dispersal wastes as many as 4,000 man-hours per month in transit time, time lost to checkpoint and information security measures, and inefficient pre-flight communication. That represents (estimating 2,000 man-hours per person per annum) a loss of 24 individuals' annual productivity, or 7.5% of the OG's 320 available personnel. This jeopardizes the ability of the 509th and 131st Bomb Wings to execute their Directed Operational Capability without delay or possible failure. Coordination of Bomb Squadron operations will be hampered by lack of an up-to-date facility that will bring more elements together. Alert crew quarters remain too far from the B-2 docks for the required rapid response. Current nuclear alert response times from the existing alert facility are unacceptable to STRATCOM and the national interest. B-2 mission capability will be jeopardized without additional secure vault space to execute the air operations, intelligence and weapons planning for each target. Classified briefings will continue in substandard, cramped conditions. Airfield Operations and Weather flights will remain isolated.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) was done. It

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
WHITEMAN AIR FORCE BASE WHITEMAN SITE # 1 MISSOURI	CONSOLIDATED STEALTH OPERATIONS & NUCLEAR ALERT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	3420/YWHG031002R2	29,500

indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. 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 dated 1 March 2013. Base Civil Engineer Phone: (660) 687-3503. Consolidated Stealth Operations & Nuclear Alert Facility: 7,357 SM = 79,190 SF. Project will demolish buildings 6, 35, and 706 (7,107SM = 76,500SF) including asbestos/lead paint abatement.

JOINT USE CERTIFICATION: This facility is programmed for joint use with 131st Bomb Wing, Missouri Air National Guard; however, it is fully funded by the Air Force. This project supports Total Force Integration initiatives.

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
WHITEMAN AIR FORCE BASE WHITEMAN SITE # 1 MISSOURI	CONSOLIDATED STEALTH OPERATIONS & NUCLEAR ALERT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-753	3420/YWHG031002R2	29,500

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	29-AUG-14
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2015	15%
* (d) Date 35% Designed	30-JUL-15
(e) Date Design Complete	30-OCT-15
(f) 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 -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	**($000)**
(a) Production of Plans and Specifications	1,770
(b) All Other Design Costs	885
(c) Total	2,655
(d) Contract	2,213
(e) In-house	442
(4) Construction Contract Award	**16 FEB**
(5) Construction Start	**16 MAR**
(6) Construction Completion	**17 OCT**

* 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNISHING/COMM EQPT/CONNECT'S	3080	2017	530
SYSTEMS WORK STATIONS	3080	2017	401

1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST
MALMSTROM AIR FORCE BASE	AIR FORCE GLOBAL STRIKE	COST INDEX
MONTANA	COMMAND	1.10

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 Sep 14	449	2617	481	0	0	0	462	3053	647	7,709
END FY 2019	360	2191	479	0	0	0	373	2625	645	6,673

7. INVENTORY DATA ($000)

Total Acreage: 3,627

Inventory Total as of : (30 Sep 14)	3,181,296
Authorization Not Yet in Inventory:	21,518
Authorization Requested in this Program: (FY2016)	19,700
Planned in Next Four Years Program:	117,000
Remaining Deficiency:	69,300
Grand Total:	3,408,814

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
141-459	Tactical Response Force Alert Facility	7,699 SM	19,700	Aug 14	Sep-15
		TOTAL	19,700		

9a. Future Projects: Typical Planned Next Four Years:

141-911	Replace Missile Alert Facility, Ph 1		10,400
215-582	Weapons Storage Facility		95,000
740-674	Physical Fitness Center		11,600
		TOTAL	117,000

9c. Real Property Maintenance Backlog This Installation ($M) 61.8

10. Mission or Major Functions: The mission of the 341st Space Wing is to keep America free and strong by providing combat-ready people and aerospace forces. One of three USAF bases that maintains and operates Intercontinental Ballistic Missiles, the 341st SW manages a large portion of the nation's Minuteman III force spread through-out Montana.

11. Outstanding pollution and Safety (OSHA) Deficiencies:

a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
MALMSTROM AIR FORCE BASE MALMSTROM SITE # 1 MONTANA	TACTICAL RESPONSE FORCE ALERT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
35896	141-753	2528/NZAS043002	19,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				15,159
TACTICAL RESPONSE FORCE ALERT FAC (141753)	SM	3,838	3,199	(12,278)
FLIGHT SIMULATOR FACILITY (171212)	SM	809	3,199	(2,588)
SUSTAINABILITY AND ENERGY MEASURES	LS			(293)
SUPPORTING FACILITIES				2,628
PAVEMENTS	LS			(1,000)
SITE IMPROVEMENTS	LS			(718)
UTILITIES	LS			(910)
SUBTOTAL				17,787
CONTINGENCY (5.0%)				889
TOTAL CONTRACT COST				18,676
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,065
TOTAL REQUEST				19,741
TOTAL REQUEST (ROUNDED)				19,700
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(2,500.0)

10. Description of Proposed Construction: Construct a new complex to include Squadron Operations/Alert Crew/Simulator Facility to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. Facility will be designed as permanent construction in accordance with DoD Unified Facilities Criteria - UFC 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 75 Tons

11. Requirement: 4647 SM Adequate: 0 SM Substandard: 2024 SM

PROJECT: Tactical Response Alert Force Facility (New Mission)

REQUIREMENT: An adequately sized and configured integrated helicopter operations facility is needed to provide proper command and control, maintenance, and fueling capabilities for helicopter operations providing security coverage to remote ICBM missile alert and launch facilities. A series of buildings that will become the main control point for all unit flight and flying training tasks including planning, briefing, administration, alert response, life support system maintenance, crew equipment storage and issue. Complex must provide collocation of the squadron operations facility and alert crew sleeping quarters with the aircraft to minimize crew response times and enhance rescue/security team effectiveness. Response time is critical when providing security for nuclear weapons transports and conducting search and security, rescue/civil aid missions. The complex must have flight line visibility for control of ground traffic and aircraft storage must be heated for rapid response during prolonged and often extreme winter conditions. Malmstrom Air Force Base's 40th Helicopter Squadron (40HS) directly supports ICBM

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION, SITE AND LOCATION MALMSTROM AIR FORCE BASE MALMSTROM SITE # 1 MONTANA	4. PROJECT TITLE TACTICAL RESPONSE FORCE ALERT FACILITY	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
35896	141-753	2528/NZAS043002	19,700

missile alert and launch facility site security by providing rapid response/transport of Security Forces personnel and equipment from the base to the missile fields spread throughout the state.

CURRENT SITUATION: Tactical Response Force operations are currently conducted from a facility constructed in 1959. This structure is laden with asbestos containing materials, lead based paint, and is supplied with an aged and failing utilities infrastructure. The current facility is only partially adequate for the storage, maintenance, and issue of life support equipment and other provisions needed by flight crews. In addition to its inferior condition and poor layout, the current facility affords few provisions for Squadron operations and none for around-the-clock alert readiness. The existing facility in not collocated with the Helicopter Hangers. Therefore additional time is required to get the alert crews to the helicopters. The security forces alert crews have a limited amount of time to reach a missile site and secure it. Taking extra time to load up a truck and drive across base to get to the helicopters could mean the difference between protecting a nuclear asset or arriving too late. The missile sites are scattered far apart and require absolute speed to get there within the allotted time frame. These helicopters and alert crews are critical to maintain security of the nuclear weapon system. Additionally, the 40HS conducts search and rescue missions throughout Montana for both military and civil authorities.

IMPACT IF NOT PROVIDED: Malmstrom AFB will be unable to properly bed down the UH-60 helicopters required to replace the UH-1. Without a new facility that allows for consolidation of Squadron Operation and Alert Crew facilities 24-hour alert responses will continue to be impeded and expediencies of consolidation will not be achieved. The existing UH-1 fleet is Vietnam vintage and does not meet the required Key Performance Parameters for performance, range, speed, or cargo capacity required to support the Tactical Response Force and ICBM Security Concepts of Operations detailed in DoDD 5210.41-M-V1, V2, V3, Security Policy for Protecting Nuclear Weapons, dated 13 July 2009. Upon contract selection, replacement helicopters can be fielded within 24 months, making this project potentially late-to-need if not approved. Without this project, existing operations will continue to progressively degrade as facilities and utility systems age and are increasingly unable to support operational requirements. Expensive parts and equipment will continue to be exposed to outdoor weather extremes. The ability to expeditiously deploy security and/or rescue personnel under updated security criteria of nuclear weapons transports and execution of search and rescue/civil aid missions will be compromised. Continued reliance on insufficient aircraft maintenance and squadron operations facilities could ultimately result in the inability to re-secure a nuclear resource if taken by force.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) was performed. Only two options, renovation and new construction, meet operational requirements. The renovation project exceeds 75% of the replacement of a similar sized facility, resulting in new construction as the only viable option. Because of this an Economic Analysis was not needed or performed. A waiver will be

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
MALMSTROM AIR FORCE BASE MALMSTROM SITE # 1 MONTANA	TACTICAL RESPONSE FORCE ALERT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
35896	141-753	2528/NZAS043002	19,700

prepared. 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 dated 1 March 2013. Base Civil Engineer: CML 406-731-6188. Squadron Operations/Alert Crew Facility: (Cat Code 141753), 3,838 SM = 41,312 SF and Flight Simulator Facility: (Cat Code 171212), 809 SM = 8,708 SF.

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

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MALMSTROM AIR FORCE BASE MALMSTROM SITE # 1 MONTANA	TACTICAL RESPONSE FORCE ALERT FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35896	141-753	2528/NZAS043002	19,700

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	29-AUG-14
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2015	15%
* (d) Date 35% Designed	30-JUL-15
(e) Date Design Complete	30-OCT-15
(f) 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 -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	1,182
(b) All Other Design Costs	591
(c) Total	1,773
(d) Contract	1,477
(e) In-house	296
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	17 OCT

* 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
AUDIO/VISUAL EQUIPMENT	3080	2016	500
COMMUNICATIONS EQUIPMENT	3080	2016	600
FF&E	3400	2017	1,400

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION: OFFUTT AIR FORCE BASE NEBRASKA	4. COMMAND: AIR COMBAT COMMAND	5. AREA CONST COST INDEX 1.01

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	680	2747	1279	106	82	0	403	1364	1,446	8,107
END OF FY 2019	680	2747	1279	106	82	0	403	1364	1446	8,107

7. INVENTORY DATA ($000)	
a. Total Acreage: 1,917	
b. Inventory Total as of : (30 Sep 14)	1,800,422
c. Authorization Not Yet in Inventory:	100,246
d. Authorization Requested in this Program: (FY2016)	21,000
e. Planned in Next Four Year Program:	0
f. Remaining Deficiency:	300,000
g. Grand Total:	2,221,668

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
721-312	Dormitory (144 Rm)	4,752 SM	21,000	Design/Build	
		TOTAL	21,000		

9a. Future Projects: Typical Planned Next Four Years:

NONE	TOTAL	0

9b. Real Property Maintenance Backlog This Installation: ($M) 123

10. Mission or Major Functions: Headquarters USSTRATCOM; a strategic aerial reconnaissance wing with five flying reconnaissance squadrons flying the OC/RC/TC/WC-135 class aircraft and one strategic command and control squadron flying the E-4B, the Air Force Weather Agency, USAF Heartland of America Band and a Strategic Intelligence Squadron.

11. Outstanding Pollution and Safety (OSHA Deficiencies):

a. Air Pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
OFFUTT AIR FORCE BASE OFFUTTAIRFORCEBSE SITE # 1 NEBRASKA	DORMITORY (144 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-312	3100/SGBP150907	21,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				13,732
DORMITORY (144 RM)	SM	4,752	2,839	(13,491)
SUSTAINABILITY AND ENERGY MEASURES	LS			(241)
SUPPORTING FACILITIES				4,764
UTILITIES	LS			(650)
PAVEMENTS	LS			(655)
SITE IMPROVEMENTS	LS			(658)
DEMOLITION	SM	5,231	233	(1,219)
ASBESTOS ABATEMENT	SM	5,231	95	(497)
GROUND SOURCE HEAT PUMPS	EA	1	650,000	(650)
COMMUNICATION SUPPORT	LS			(435)
SUBTOTAL				18,496
CONTINGENCY (5.0%)				925
TOTAL CONTRACT COST				19,420
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,107
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				740
TOTAL REQUEST				21,267
TOTAL REQUEST (ROUNDED)				21,000

10. Description of Proposed Construction: Construct a three-story dormitory utilizing economical design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. Includes (Dorms-4-Airmen standard) 4-room-bath/kitchen living room modules with laundry rooms, storage, lounge areas, mail center,communications, fire protection, site work, geothermal heat pumps, access road, parking, recreation areas, and all necessary support. The scope of work also includes demolition of one facility (5,231 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

Air Conditioning: 170 Tons

11. Requirement: 6025 SM Adequate: 0 SM Substandard: 5231 SM

PROJECT: Construct Dormitory (144 RM). (Current Mission)

REQUIREMENT: This project is required to implement the CSAF's goal to recapitalize all Tier 2 dorms. Tier 2 dorms as recorded in the AF Dormitory Master Plan are inadequate. The construction of a new dormitory in accordance with the Air Force Dormitory Master Plan approved for Offutt AFB will incorporate the Dorms-4-Airmen Air Force Standard Modules. This project will provide unaccompanied enlisted

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1. COMPONENT	FY 2017 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
OFFUTT AIR FORCE BASE OFFUTTAIRFORCEBSE SITE # 1 NEBRASKA	DORMITORY (144 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-312	3100/SGBP150907	21,000

personnel with housing conducive to their proper rest, relaxation, and personal well-being. Properly designed and furnished quarters providing individual privacy are essential to successful accomplishment of the increasingly complicated and important jobs our airmen must perform.

CURRENT SITUATION: The Air Force Dormitory Master Plan established the need for a replacement dormitory based on the degraded condition of the current facilities. Facility condition assessments confirm this degraded status. This project is prioritized in accordance with the Air force Dormitory Master Plan.

IMPACT IF NOT PROVIDED: Adequate living quarters at a level of privacy required for today's airmen will not be available; resulting in degradation of morale, productivity, and career satisfaction for unaccompanied enlisted personnel. The existing facilities will continue to deteriorate due to their age, resulting in increased maintenance costs and a decreased quality of life for occupants.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". An analysis of reasonable alternatives to meet this requirement (status quo, renovation, new construction) has been completed and new construction is the only viable option to meet this requirement. A certificate of exemption has been prepared. 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, dated 1 March 2013. Base Civil Engineer: (402) 294-5501. (Dormitory: 4,752 SM = 51,150 SF)

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 2017 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
OFFUTT AIR FORCE BASE OFFUTTAIRFORCEBSE SITE # 1 NEBRASKA	DORMITORY (144 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-312	3100/SGBP150907	21,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:

(a) Standard or Definitive Design - NO

(b) Where Design Was Most Recently Used -

(3) All Other Design Costs 840

(4) Construction Contract Award 16 FEB

(5) Construction Start 16 MAR

(6) Construction Completion 18 MAR

(7) Energy Study/Life-Cycle analysis was/will be performed YES

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

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION: NELLIS AIR FORCE BASE NEVADA	4. COMMAND: AIR COMBAT COMMAND	5. AREA CONST COST INDEX 1.22

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	1054	5926	1435	45	11	0	79	125	193	8,868
END OF FY 2019	1054	5926	1435	45	11	0	79	125	193	8,868

7. INVENTORY DATA ($000)

a. Total Acreage: 14,160	
b. Inventory Total as of : (30 Sep 14)	4,430,213
c. Authorization Not Yet in Inventory:	108,555
d. Authorization Requested in this Program: (FY2016)	68,950
e. Planned in Next Four Year Program:	2,751
f. Remaining Deficiency:	218,900
g. Grand Total:	4,829,369

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
113-321	F-35A Airfield Pavements	152,200	SM	31,000	Design/Build	
116-661	F-35A Live Ordnance Loading Area	60,878	SM	34,500	Design/Build	
216-642	F-35A Munitions Maintenance Facilities	558	SM	3,450	Design/Build	
		TOTAL		68,950		

9a. Future Projects: Typical Planned Next Four Years:

171-212	CRH Simulator	556	SM	2,751
		TOTAL		2,751

9b. Real Property Maintenance Backlog This Installation: ($M) 95

10. Mission or Major Functions: USAF Warfare Center manages advanced pilot training, operation, testing, and tactics development in air, space, and cyberspace. Its named unit, Nevada Test & Training Range (NTTR), oversees the 15,000 sq. mile Nevada Test and Training Range Complex that includes an emergency airfield. 57th Wing, A-10A, F-15C/E, F-16, F-22A, F-35A, HH-60G. 57th Wing missions include Red Flag exercises (414th Combat Training Sq.); graduate level pilot training (USAF Weapons School); support for Army exercises (549th Combat Training Sq.); training for international personnel in joint firepower procedures and techniques (57th Operations Gp.); and USAF Air Demonstration Sq. (Thunderbirds). 53rd Wing, at 17 locations nationwide, serves as focal point for combat air forces in electronic warfare, armament and avionics, chemical defense, reconnaissance, and aircrew training devices, and operational testing and evaluation of proposed new equipment and systems. 505th Command and Control Wing builds the predominant air and space command and control ability for combined joint warfighters through training, testing, exercising, and experimentation.

11. Outstanding Pollution and Safety (OSHA Deficiencies):

a. Air Pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA	F-35A AIRFIELD PAVEMENTS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27142	113-321	3056/RKMF143003	31,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				24,261
PARKING APRON (113-321)	SM	86,100	233	(20,080)
PAVED SHOULDERS (116-642)	SM	66,100	63	(4,181)
SUPPORTING FACILITIES				2,755
UTILITIES	LS			(2,001)
PAVEMENTS	LS			(654)
SITE IMPROVEMENTS	LS			(100)
SUBTOTAL				27,016
CONTINGENCY (5.0%)				1,351
TOTAL CONTRACT COST				28,367
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,617
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				1,081
TOTAL REQUEST				31,064
TOTAL REQUEST (ROUNDED)				31,000

10. Description of Proposed Construction: Construct airfield pavements using 18 inch (medium load design) 700 PSI flex-strength Portland Cement Concrete for aircraft parking ramp; includes asphalt shoulders, base and sub-base, drainage systems, apron lighting, edge lighting, pavement marking, earthwork and grading, utilities, pre-formed compression joint seals, aircraft tiedowns and grounding points, replace satellite fire station parking lot, AGE yard, road relocation, spall repair, concrete apron and joint seal replacement, and all other work as necessary. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

11. Requirement: 1292482 SM Adequate: 1140282 SM Substandard: 0 SM

PROJECT: Construct F-35A Airfield Pavements. (New Mission)

REQUIREMENT: Nellis AFB is the designated beddown location for Force Development and Evaluation, and the USAF Weapon School for the F-35A weapon system. A parking apron, adequately sized and configured, is required to support the permanent beddown of 36 Primary Training Aircraft; 12 for Developmental, Test and Evaluation (DT&E) and 24 for the Weapons School. The DT&E aircraft began arriving in FY13/2 with 4 currently assigned. Additional F-35A aircraft begin arriving in Dec 14. This apron will be used to park aircraft displaced by parking of F-35A aircraft on the main parking ramp.

CURRENT SITUATION: Starting in FY 16/3, Nellis AFB will not have enough parking apron space available to accommodate the additional 24 F-35A aircraft for Weapons School training functions. Nellis AFB proper has had significant growth since 2000 with the F-22A Test and Weapon School beddown (16 aircraft), the F-15/F-16

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA	F-35A AIRFIELD PAVEMENTS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27142	113-321	3056/RKMF143003	31,000

Aggressor beddown (48 aircraft) and the expansion of flag exercises and other force structure actions. Nellis is projected to have over 180 assigned aircraft when all actions are complete. All excess parking apron facilities have been at capacity for the last 5 to 7 years, and additional requirements have been documented through the BRAC 2005 process and previously approved new weapon system facility projects. Several ramp areas have been used to park aircraft even though the pavement violates airfield criteria. The aircraft parking situation is critical. Currently, the installation must limit the number of visiting units that can participate in the various flag exercises, the USAF Weapon School and test missions. Nellis AFB is a critical asset for capabilities and tactics testing of new weapon systems and the training of combat forces. The installation supports a diversity of weapons systems ranging from HH-60s, A-10s, F-15s, F-16s, F-22As, and now the F-35A, all of which support operational test, weapon school and flag exercises.

IMPACT IF NOT PROVIDED: Without adequate parking apron support for the new F-35A aircraft scheduled to arrive at Nellis AFB, the ability to generate the necessary aircraft sorties to support operational test and weapons school mission requirements will be severely impacted. Other flying missions at Nellis AFB will be severely impacted due to the crowding of combat aircraft on the existing parking apron.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide", Air Force Handbook 32-1084, "Facility Requirements" and the weapon system Facility Requirement Plan. An analysis of reasonable options for accomplishing this project (status quo, renovations, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. 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, dated 1 March 2013. Civil Engineer: (702) 652-4833 (Parking Apron: 86,100 SM = 94,160 SY; Asphalt Shoulders: 66,100 SM = 72,300 SY)

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.

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA	F-35A AIRFIELD PAVEMENTS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	113-321	3056/RKMF143003	31,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) All Other Design Costs	1,240
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	18 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA	F-35A LIVE ORDNANCE LOADING AREA

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27142	116-661	3056/RKMF143002	34,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				16,018
PARKING APRON (113-321)	SM	47,720	233	(11,129)
PAVED SHOULDERS (116-642)	SM	11,830	63	(748)
LOLA CREW OPERATIONS FACILITY (211-154)	SM	1,328	3,057	(4,060)
SUSTAINABILITY & ENERGY MEASURES	LS			(81)
SUPPORTING FACILITIES				13,968
UTILITIES	LS			(8,091)
SITE IMPROVEMENTS	LS			(324)
PAVEMENTS	LS			(2,714)
REVETMENTS	EA	12	60,000	(720)
EARTH BERM	CM	22,700	8	(182)
SUNSHADES	SM	3,600	270	(972)
SECURITY FENCE	LM	1,300	200	(260)
COMMUNICATIONS SUPPORT	LM	300	450	(135)
DEMOLITION (ROADS, BERM, ASPHALT & PAVING)	LS			(570)
SUBTOTAL				29,986
CONTINGENCY (5.0%)				1,499
TOTAL CONTRACT COST				31,485
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,795
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				1,199
TOTAL REQUEST				34,479
TOTAL REQUEST (ROUNDED)				34,500
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				160

10. Description of Proposed Construction: Construct a Live Ordnance Load Area using economical design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost cover effective. Construction includes 18 inch (medium load design) 700 PSI flex-strength Portland Cement Concrete aircraft parking ramp, asphalt shoulders, base and sub-base, drainage systems, apron lighting, edge lighting, pavement marking, site work, earth berm, revetments, utilities, pre-formed compression joint seals, aircraft tiedowns and grounding points, AGE yard, road relocation, new access roads, vehicle parking lot, relocated JP-8 fuel lines, sunshades, security fence, associated demolition and all other work as necessary. The LOLA Crew Operations Facility will have a reinforced concrete foundation and floor slab, structural steel frame, masonry walls, standing metal seam roof, fire detection/protection, utilities, site improvements, pavements and communications support. Facilities will be designed as permanent construction in accordance with

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA	F-35A LIVE ORDNANCE LOADING AREA

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27142	116-661	3056/RKMF143002	34,500

the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

Air Conditioning: 70 Tons

11. Requirement: 1202133 SM Adequate: 1152035 SM Substandard: 0 SM

PROJECT: Construct F-35A Live Ordnance Loading Area. (New Mission)

REQUIREMENT: Nellis AFB is the designated beddown location for Force Development and Evaluation, and the USAF Weapon School for the F-35A weapon system. A proper Live Ordnance Loading Area (LOLA), adequately sized and configured, is required to support the permanent beddown of 36 Primary Training Aircraft; 12 for Developmental, Test and Evaluation (DT&E) and 24 for the Weapons School. The DT&E aircraft began arriving FY13/2 with 4 currently assigned. An adequately sized and configured LOLA Crew Operations Facility is required to support the LOLA operations of 120 crew personnel and their equipment of the expanded F-35A LOLA operations.

CURRENT SITUATION: Starting in FY 16/3, Nellis AFB will not have enough LOLA apron space available to accommodate the additional 24 F-35A aircraft for Weapons School training functions, which begin arriving in FY15/2. Nellis AFB proper has had significant growth since 2000 with the F-22A Test and Weapon School Beddown (16 aircraft), the F-15/F-16 Aggressor Beddown (48 aircraft) and the expansion of Flag exercises and other force structure actions. Nellis is projected to have over 180 assigned aircraft when all actions are complete. The existing LOLA is operating at full capacity. All excess LOLA facilities have been at capacity for the last 5 to 7 years, and additional requirements have been documented through the BRAC 2005 process and previously approved new weapon system facility projects. Nellis AFB is a critical asset for capabilities and tactics testing of new weapon systems and the training of combat forces. The installation supports a diversity of weapons systems ranging from HH-60s, A-10s, F-15s, F-16s, F-22As, and now the F-35A, all of which support operational test, weapon school and flag exercises.

IMPACT IF NOT PROVIDED: Without adequate LOLA support for the new F-35A aircraft scheduled to arrive at Nellis AFB, the ability to generate the necessary aircraft sorties to support operational test and weapons school mission requirements will be severely impacted. Other flying missions at Nellis AFB will be severely impacted due to the crowding of combat aircraft on the existing LOLA apron.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide", Air Force Manual 32-1084, "Facility Requirements" and the weapon system Facility Requirement Plan. An analysis of reasonable options for accomplishing this project (status quo, renovations, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. 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, dated 1 March 2013. Base Civil Engineer: (702) 652-4833 (Parking Apron: 47,720 SM = 57,072 SY; Paved Shoulder: 11,830 SM = 14,148 SY; LOLA Crew Operations Facility: 1,328 SM = 14,300 SF)

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA	F-35A LIVE ORDNANCE LOADING AREA

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27142	116-661	3056/RKMF143002	34,500

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.

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA	F-35A LIVE ORDNANCE LOADING AREA

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	116-661	3056/RKMF143002	34,500

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis: (a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) All Other Design Costs	1,380
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	18 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS-ELECTRICAL EQUI	3400	2017	60
FURNISHINGS	3400	2017	100

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA	F-35A MUNITIONS MAINTENANCE FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27142	216-642	3056/RKMF103011	3,450

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				2,355
MUNITIONS MAINTENANCE ADDITION (216-642)	SM	279	4,138	(1,155)
MISSILE MAINTENANCE ADDITION (216-642)	SM	279	4,138	(1,155)
SUSTAINABILITY AND ENERGY MEASURES	LS			(46)
SUPPORTING FACILITIES				638
UTILITIES	LS			(101)
SITE IMPROVEMENTS	LS			(246)
PAVEMENTS	LS			(171)
COMMUNICATIONS SUPPORT	LS			(120)
SUBTOTAL				2,993
CONTINGENCY (5.0%)				150
TOTAL CONTRACT COST				3,143
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				179
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				120
TOTAL REQUEST				3,442
TOTAL REQUEST (ROUNDED)				3,450
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				35

10. Description of Proposed Construction: Construct Munitions Maintenance and Missile Maintenance additions using economical design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost cover effective. Facilities should use reinforced concrete foundations and floor slabs, structural steel frames, standing seam metal roofs, fire detection/protection, utilities, landscaping, roads/parking and access pavements, lighting and markings, communications support and all other work as necessary. Munitions/missile maintenance facilities additions require concrete blast walls. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

Air Conditioning: 30 Tons

11. Requirement: 4598 SM Adequate: 3893 SM Substandard: 0 SM

PROJECT: Construct F-35A Munitions Maintenance Facilities. (New Mission)

REQUIREMENT: Additional munitions/missile maintenance facility capacity is required to support the permanent beddown of 36 Primary Training Aircraft Inventory; 12 for Developmental, Test and Evaluation (DT&E) and 24 for the Weapons School. Aircraft began arriving in FY13/2 with 4 currently assigned. Additional F-35A aircraft will arrive beginning Dec 2014. With 24 months normally required for

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA	4. PROJECT TITLE F-35A MUNITIONS MAINTENANCE FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27142	216-642	3056/RKMF103011	3,450

construction and 6 months required for security accreditation, the construction period will have to be compressed and temporary O&M work-arounds will be implemented to meet aircraft delivery timelines. This additional time is required to support the facility security accreditation process; maintenance computer tracking/maintenance systems, communication instruments/systems; telephones; furniture and other work necessary for a complete and usable facility for the intended purpose. A total of 36 F-35A aircraft are ultimately slated for delivery to Nellis AFB over the next decade. The Munitions Maintenance Facility bay addition will support the inspection and maintenance of conventional munitions that will support the test and training requirements for the F-35A aircraft. The Missile Maintenance Facility bay addition will support the inspection and maintenance of missiles to be tested and utilized by the F-35A aircraft. Nellis AFB has been designated as the beddown location for Force Development and Evaluation and the USAF Weapon School for the F-35A Weapon System.

CURRENT SITUATION: Nellis AFB does not have adequate munitions/missile maintenance facility capacity to support the munitions maintenance requirements of an additional 36 F-35A aircraft for test and the Weapons School. Nellis is one of the most congested airfields in the Air Force from an operational and logistics perspective. Nellis AFB proper has had significant growth since 2000 with the F-22A Test and Weapon School Beddown (10+2 BAI aircraft), the F-15/F-16 Aggressor Beddown (36 aircraft), and expansion of Flag exercises and other force structure actions. Nellis is projected to have over 180 assigned aircraft when all actions are complete. All excess conventional munitions maintenance, missile maintenance and munitions trailer maintenance facilities have been at capacity for the last 5 to 7 years, and additional requirements have been documented through the Base Realignment and Closure (BRAC) 2005 process and previously-approved new weapon system facility projects. The installation is a critical asset for the capabilities and tactics testing of new weapon systems and the training of Combat Forces. The installation supports a diversified weapons systems ranging from HH-60s, A-10s, F-15s, F-16s, F-22A, and now F-35A, all of which support operational test and weapon school and flag exercises.

IMPACT IF NOT PROVIDED: Nellis AFB's ability to generate the necessary aircraft sorties to support operational test and weapons school mission requirements will be severely impacted. Without adequate munitions/missile maintenance support, munitions/missile maintenance personnel will be unable to complete the inspection and maintenance of conventional munitions and missiles that are being tested and utilized by this new weapon system. Additionally, the first beddown locations for new weapon systems of all kinds provide the initial pool of qualified operators and maintainers who will in turn train the next group of personnel for follow on locations. If the AF is unable to train adequate numbers of personnel in the early stages the impacts will be felt for follow on locations and may impact/delay initial and/or final operational capability.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide" and Air Force Manual 32-1084, "Facility Requirements". An analysis of reasonable options for accomplishing this

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA	F-35A MUNITIONS MAINTENANCE FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27142	216-642	3056/RKMF103011	3,450

project (status quo, renovations, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project and will follow the guidance detailed in the AF 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, dated 1 March 2013. Base Civil Engineer: (702) 652-4833. (Munitions Maintenance Facility: 279 SM = 3,000 SF; Missile Maintenance Facility: 279 SM = 3,000 SF).

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

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
NELLIS AIR FORCE BASE NELLIS SITE # 1 NEVADA	F-35A MUNITIONS MAINTENANCE FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	216-642	3056/RKMF103011	3,450

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used -

(3) All Other Design Costs 138

(4) Construction Contract Award 16 FEB

(5) Construction Start 16 MAR

(6) Construction Completion 17 MAR

(7) Energy Study/Life-Cycle analysis was/will be performed YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS-ELECTRONIC EQUI	3400	2016	25
FURNISHINGS	3400	2016	10

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST
CANNON AFB,	AIR FORCE SPECIAL	COST INDEX
NEW MEXICO	OPERATIONS COMMAND	0.98

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 Sep 14	851	3849	835	0	0	0	4	59	5	5,603
END FY 2019	873	3861	835	0	0	0	4	59	5	5,637

7. INVENTORY DATA ($000)		
a. Total Acreage:	3,789	
b. Inventory Total as of : (30 Sep 14)		1,002,731
c. Authorization Not Yet in Inventory:		69,000
d. Authorization Requested in this Program:		21,000
e. Planned in Next Four Year Program:		13,200
f. Remaining Deficiency:		206,900
g. Grand Total:		1,312,831

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
730-837	Construct AT/FP Gate - PORTALES	652 SM	$7,800	Design	Build
		Total	$7,800		

9a. FUTURE PROJECTS: Typical Planned Next Four Years:

116-642	Construct Shoulders, Runway 13-31	98,933 SY	$13,200
		Total	$13,200

9b. Real Property Maintenance Backlog This Installation: ($M)	100

10. MISSION OR MAJOR FUNCTIONS: Special Operations Wing with MC-130W, MC-130J, AC-130J (RECAP), CV-22, Non-Standard Aviation (NSA), Non-Standard Aviation (NSA), Remotely Piloted Aircraft (RPA), and Special Tactics special operations squadrons.

11. OUTSTANDING POLLUTION AND SAFETY (OSHA)DEFICIENCIES:

a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
CANNON AIR FORCE BASE CANNON AFB SITE # 1 NEW MEXICO	CONSTRUCT AT/FP GATE - PORTALES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	730-837	1551/CZQZ113000	7,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				1,682
GATEHOUSE	SM	90	3,111	(280)
COMMERICAL VEHICLE INSPECTION FAC	SM	556	2,448	(1,361)
OVERWATCH FACILITY	SM	6	1,217	(7)
SUSTAINABILITY AND ENERG MEASURES	LS			(33)
SUPPORTING FACILITIES				5,125
UTILITIES	LS			(1,005)
PAVEMENTS	LS			(1,048)
SITE IMPROVEMENTS	LS			(978)
COMMUNICATIONS	LS			(302)
DEMOLITION	SM	521	52	(27)
PASSIVE FORCE PROTECTION MEASURES	LS			(1,765)
SUBTOTAL				6,807
CONTINGENCY (5.0%)				340
TOTAL CONTRACT COST				7,147
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				407
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				272
TOTAL REQUEST				7,827
TOTAL REQUEST (ROUNDED)				7,800
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				90

10. Description of Proposed Construction: Construct a new entry control gatehouse, vehicle inspection station with inspection pits, interior bay catwalk and circulation roads, over-watch station, associated roadways, and parking lot that comply with antiterrorism/force protection (AT/FP) criteria. Utilize conventional design and construction methods to accommodate the mission of the facility. In addition; local materials and construction technique shall be used where cost effectives. Project will be designed as permanent construction in accordance with Unified Facilities Criteria (UFC) 1-200-01. Includes all associated fire protection, communications, signage, utilities, pavements, site improvements, landscaping, and other required support. Demolish 521 SM. Project will comply with the DoD minimum antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 15 Tons

11. Requirement: 652 SM Adequate: 0 SM Substandard: 521 SM

PROJECT: Construct AT/FP Gate - Portales. (Current Mission)

REQUIREMENT: An adequately sized and configured entry control point that provides safe and secure access through the Portales gate. The ID Check Area will include guard booths to support vehicle entry in the inbound lanes, a guardhouse, and

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
CANNON AIR FORCE BASE CANNON AFB SITE # 1 NEW MEXICO	CONSTRUCT AT/FP GATE - PORTALES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	730-837	1551/CZQZ113000	7,800

outbound lanes. A canopy shall cover the inbound lanes in order to shield guards and commuters from the elements. The Gatehouse includes: guardroom; unisex restroom; electrical/telecomm room; mechanical room; and storage room. The Commercial Vehicle Inspection Facility includes: two commercial vehicle-sized bays with catwalks for guards; inspection equipment room; guard room; driver waiting room; and building support space. Special equipment within the Vehicle Inspection Facility includes an Under Vehicle Inspection System, equipment to perform above vehicle inspections, and other technologies to thoroughly and safely screen vehicles. The Overwatch Tower will be a small raised facility that will accommodate a single armed guard and provide a full view of the entry control area. In addition, traffic flow improvements such as newly paved roads, with wider maneuverability for commercial traffic, to provide safe entry onto and exiting the installation. Denial barriers properly placed to meet UFC standoff and delay requirements.

CURRENT SITUATION: The Portales Entry Control Point (ECP) does not currently meet several AT/FP and UFC standards. The denial barriers do not meet UFC delay requirements which pose a major security risk (details are classified secret--refer to CVAMP observation number 2008-0010). This gate has a temporary search area that does not have proper setbacks, and is difficult for large commercial vehicles to maneuver through properly without creating a traffic safety concern. Additionally, the current search areas do not have the capability to support any electronic infrastructure, which severely limits search capabilities. The outdated and rudimentary search procedures Cannon AFB Security Forces must use are nowhere near as effective with the increasingly deadly vehicle-born threats the military now faces. The Portales Gate is the only ECP for commercial vehicles to enter the installation. Personnel commuting from Portales and surrounding communities use this ECP as well. Currently, there is a very short distance between the vehicle inspection areas and the ECP which frequently results in the bottlenecking of commercial and privately owned vehicles waiting to enter the Portales ECP. These delays create hold-patterns on County Road Q and Country Road 467 which not only impact the people commuting to base, but also impacts commuters travelling to and from the surrounding areas. As construction increases due to the AFSOC beddown, so will the number of construction vehicles passing through the gate. When the construction of the southeast development of the base is completed, this problem will only worsen as use of this ECP triples.

IMPACT IF NOT PROVIDED: Failure to construct this ECP will hinder the installation's ability to detect and deter potential terrorist threats, reduce the effectiveness of existing resources and possibly allow a terrorist device access to the installation. The Air Force will continue to accept the safety risks to facilities and equipment, and to DoD and non-DoD personnel entering and exiting the base due to violations of minimum DoD AT/FP standards. The risk for serious vehicular accidents will also increase as the base population grows, especially with the amount of traffic passing through the gates each day. Cannon will also experience increasing delays entering the Portales ECP due to the large volume of commercial vehicles and personnel commuting from Portales and surrounding areas.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
CANNON AIR FORCE BASE CANNON AFB SITE # 1 NEW MEXICO	CONSTRUCT AT/FP GATE - PORTALES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	730-837	1551/CZQZ113000	7,800

ADDITIONAL: This project meets the criteria/scope in Air Force Manual 32-1084, "Facility Requirements". An economic analysis of reasonable options for accomplishing this project (status quo, upgrade/removal, new construction) was done. It indicates that there is only one option that will meet the operational requirement: new construction. Comply with DODI 5200.08, Change 2, Effective April 8, 2014, "Security of DOD Installations and Resources and the DOD Physical Security Review Board". Sustainable engineering principles will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02. Base Civil Engineer: (575) 784-2008. Gate House: 90 SM = 970 SF; Commercial Vehicle Inspection Facility: 556 SM = 5,982 SF; Overwatch Facility: 6 SM = 65 SF.

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.

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
CANNON AIR FORCE BASE CANNON AFB SITE # 1 NEW MEXICO	CONSTRUCT AT/FP GATE - PORTALES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	730-837	1551/CZQZ113000	7,800

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:

(a) Standard or Definitive Design - NO

(b) Where Design Was Most Recently Used -

(3) All Other Design Costs 312

(4) Construction Contract Award 16 FEB

(5) Construction Start 16 APR

(6) Construction Completion 17 AUG

(7) Energy Study/Life-Cycle analysis was/will be performed YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
UNINTERRUPTIBLE POWER SUPPLY	3400	2017	25
CLOSED CIRCUIT TV EQUIPMENT	3400	2017	65

1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION:	4. COMMAND:	5. AREA CONST
HOLLOMAN AIR FORCE BASE, NEW MEXICO	AIR COMBAT COMMAND	COST INDEX 0.97

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	274	2671	696	0	60	0	96	359	226	4,382
END OF FY 2019	274	2671	696	0	60	0	96	359	226	4,382

7. INVENTORY DATA ($000)	
a. Total Acreage: 53,603	
b. Inventory Total as of : (30 Sep 14)	2,305,340
c. Authorization Not Yet in Inventory:	88,921
d. Authorization Requested in this Program: (FY2016)	3,000
e. Planned in Next Four Year Program:	3,200
f. Remaining Deficiency:	78,650
g. Grand Total:	2,479,111

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
116-661	Marshalling Area ARM/DE-ARM Pad D	7,900 SM	3,000	Design/Build	
		TOTAL	3,000		

9a. Future Projects: Typical Planned Next Four Years:

149-511	RPA Fixed Ground Control Station Facility	558 SM	3,200
		TOTAL	3,200

9b. Real Property Maintenance Backlog This Installation: ($M)	213

10. Mission or Major Functions: Air Combat Command; a fighter wing with F-22A squadrons, one German F-4 training squadron, a major command training squadron, a weapons testing and evaluation wing, and the war reserve material bare base support group.

11. Outstanding Pollution and Safety (OSHA Deficiencies):	
a. Air Pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
HOLLOMAN AIR FORCE BASE HOLLOMAN SITE # 1 NEW MEXICO	MARSHALING AREA, ARM/DE-ARM PAD D

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27597	116-661	2352/KWRD133001	3,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				1,739
MARSHALING AREA FOR ARM/DE-ARM PAD D (116661)	SM	6,500	232	(1,508)
PAVED SHOULDERS (851147)	SM	1,400	165	(231)
SUPPORTING FACILITIES				880
LIGHTING	LS			(230)
STRIPING	LS			(150)
SITE IMPROVMENTS	LS			(500)
SUBTOTAL				2,619
CONTINGENCY (5.0%)				131
TOTAL CONTRACT COST				2,750
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				157
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				105
TOTAL REQUEST				3,011
TOTAL REQUEST (ROUNDED)				3,000

10. Description of Proposed Construction: Construct marshaling area for existing Arm/De-Arm Pad D to accommodate F-16 mission. Project will extend approximately 6,500 SM of 10 inch depth concrete pad with 1,400 SM of asphalt shoulders and required airfield lighting and striping. The marshaling area will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

11. Requirement: 76615 SM Adequate: 68715 SM Substandard: SM

PROJECT: Construct marshaling area for existing Arm/De-Arm Pad D to accommodate F-16 mission. (New Mission)

REQUIREMENT: Recent basing decisions directed the movement of two F-16 Formal Training Unit squadrons from Luke AFB to Holloman AFB. Marshaling areas on the Holloman airfield for additional aircraft to utilize post-arming are required in support of the F-16 training mission. With limited airspace windows, all aircraft need to be armed and ready for takeoff at the commencement of the airspace window. Expanding the existing Arm/De-Arm Pad D would provide the additional holding area required for additional aircraft.

CURRENT SITUATION: The lack of marshaling areas on the Holloman airfield for aircraft to utilize post-arming is a significant problem which must be overcome prior to student training. Processes in place at Holloman now prevent aircraft from taking off into the WSMR complex prior to the start of their airspace time. However, even if aircraft were allowed to take off early, there is no place for them to hold prior to entering the working airspace in many cases.

IMPACT IF NOT PROVIDED: The lack of a marshaling area in support of the F-16

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
HOLLOMAN AIR FORCE BASE HOLLOMAN SITE # 1 NEW MEXICO	MARSHALING AREA, ARM/DE-ARM PAD D

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27597	116-661	2352/KWRD133001	3,000

training mission will cause tremendous backlogs getting into the end of runway arming areas causing some flights to take off late simply because they could not get into the arming area because of the congestion. This will have an impact on the F-16 flying schedule execution with a full flying schedule consisting of two squadrons of aircraft.

ADDITIONAL: This project meets the criteria/scope in AF Handbook 32-1084, Facility Requirements; and UFC 3-260-01, Airfield and Heliport Planning and Design. A preliminary analysis of alternatives indicates that constructing an addition to the existing Arm De-Arm Pad D is the only feasible option. This is a new mission beddown (F-16) specific to the training mission and no other suitable facilities exist on Holloman AFB. A certificate of exception has been prepared. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development, and construction of the project and in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (575) 572-3071. Concrete Pad: 6,500 SM = 7,775 SY; Paved Shoulders: 1,400 SM = 1,675 SY.

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.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HOLLOMAN AIR FORCE BASE HOLLOMAN SITE # 1 NEW MEXICO	MARSHALING AREA, ARM/DE-ARM PAD D

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27597	116-661	2352/KWRD133001	3,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) All Other Design Costs	90
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	17 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

DD FORM 1391, DEC 99 **Previous editions are obsolete.** **Page No.**

1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST
KIRTLAND AFB	AIR FORCE MATERIAL COMMAND	COST INDEX
NEW MEXICO		0.91

6. PERSONNEL	PERMANENT			STUDENTS			SUPPORTED			
STRENGTH	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	350	1152	1742				798	2073	799	6,914
END FY 2019	346	1151	1883				702	2063	793	6,938

7. INVENTORY DATA ($000)	
a. Total Acreage: 43,842	
b. Inventory Total as of : (30 Sep 14)	2,446,515
c. Authorization Not Yet in Inventory:	57,936
d. Authorization Requested in this Program: (FY2016)	12,800
e. Planned in Next Four Year Program:	7,439
f. Remaining Deficiency:	566,133
g. Grand Total:	3,090,823

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
312-472	Space Vehicles Component Development Lab	2,390 SM	12,800	Design Build	
		TOTAL	12,800		

9a. Future Projects: Typical Planned Next Four Years:

171-212	CRH Simulator	1,255 SM	7,439
		TOTAL	7,439

9b. Real Property Maintenance Backlog This Installation: ($M)	465.2

10. Mission or Major Functions: The 377th Air Base Wing is the host organization at Kirtland AFB. It was activated under Air Force Material Command on 1 January 1993 and became part of the Nuclear Weapons Center on 31 March 2006. The Wing operates and maintains the Air Force's sixth largest base and an AF/VA joint medical facility. The Wing provides worldwide readiness, security and support for AF Operational Test and Evaluation Center, AF Safety Center, AF Inspection Agency, two AF Research Lab directorates, Defense Threat Reduction Agency, Department of Energy and Sandia National Laboratories.

11. Outstanding pollution and Safety (OSHA Deficiencies):	
a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
KIRTLAND AIR FORCE BASE KIRTLAND SITE # 1 NEW MEXICO	SPACE VEHICLES COMPONENT DEVELOPMENT LAB

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
72806	312-472	2445/MHMV043095	12,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				7,949
COMPONENT DEVELOPMENT LAB	SM	2,390	3,260	(7,791)
ENERGY AND SUSTAINABILITY MEASURES	LS			(158)
SUPPORTING FACILITIES				3,155
UTILITIES	LS			(590)
PAVEMENTS	LS			(150)
SITE IMPROVEMENTS	LS			(210)
COMMUNICATIONS	LS			(600)
GROSS RECEIPTS TAX (6.1%)	LS			(643)
DEMOLITION	SM	4,078	236	(962)
SUBTOTAL				11,104
CONTINGENCY (5.0%)				555
TOTAL CONTRACT COST				11,660
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				665
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				444
TOTAL REQUEST				12,768
TOTAL REQUEST (ROUNDED)				12,800
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				1,324

10. Description of Proposed Construction: Construct a facility utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition; local materials and construction techniques shall be used where cost effective. Work includes multi-zone HVAC systems, multi-voltage electrical systems, multiple air and gas supplies and all site work. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. Demolish 4,078 SM. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 200 Tons

11. Requirement: 8570 SM Adequate: 6180 SM Substandard: 2390 SM

PROJECT: Space Vehicles Component Development Lab. (Current Mission)

REQUIREMENT: A high-tech, state-of-the-art facility is required to support space vehicles component development of space power generation, solar arrays and photovoltaic cells, space power storage, space vehicle mechanisms (launch separators and maneuvering components), mechanism controls, space protection including radiation-hardened electronics, and environmental sensors and cryo-coolers. The facility should provide four light labs, two medium labs, and class 1,000 clean rooms required for space vehicle research, development, and experiments. It should also provide office space for analysis, engineering,

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
KIRTLAND AIR FORCE BASE KIRTLAND SITE # 1 NEW MEXICO	SPACE VEHICLES COMPONENT DEVELOPMENT LAB

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
72806	312-472	2445/MHMV043095	12,800

engineering support and management personnel. It should comply with DoD anti-terrorism/force protection provisions.

CURRENT SITUATION: Work is now performed in eleven substandard, inadequate and obsolete facilities spread over twelve miles apart on Kirtland AFB. These facilities include metal modular buildings, an old dining hall, and a swimming pool maintenance shed. The work is fragmented and project development interaction is inefficient. Major related Air Force efforts supporting multiple critical research and development activities, such as space protection, are performed in portions of three 1960s-vintage facilities originally built as maintenance shops, security police facilities, and civil engineering buildings that have been converted for research use. Even after their conversion, these facilities do not provide the high tech, super-clean spacecraft science and technology work areas required by the Component Development Laboratory. These buildings have frequent mission stoppages due to failures in HVAC, electrical, and plumbing sub-systems. This creates schedule delays to research and development programs. Additionally, due to facilities shortcomings, activities in these old buildings cannot commence at the same pace as newer facilities in the Space Vehicles directorate. These substandard buildings must provide critical spacecraft development components to other labs, but the persistent facility failures create costly and unacceptable delays in other Space Vehicle programs. In an environment where our adversaries are developing space countermeasures as fast as we are developing space technology solutions, it is critical that we provide the warfighter a competitive advantage compared to our adversaries. This project provides the facility to develop the technologies necessary to address AFSPC's Top 10 Capability areas' priorities. This facility is required to meet the emerging needs (nuclear survivable communications, launch detection, anti-jamming) of the SMC's GPS (~$60B+ of assets) and MILSATCOM (~$42B of assets) program offices.

IMPACT IF NOT PROVIDED: The Space Vehicles Directorate's research programs are co-funded/co-leveraged by the Navy, Defense Threat Reduction Agency, DARPA, NRO, USASMDC, Air Force SPOs and AFSPC, as well as several projects that work with NATO. Plug and Play activities are spread across all services and agencies and with Sweden as defined under the international Memorandum of Agreement signed by AFRL/CC, as are the hardened-by-design, miniaturization, and component design efforts. The highly visible, state-of-the-art Field Programmable Gate Array is co-funded by AF SPOs, AFRL, and the Cryptologic Applications Group. The sensors and cryogenic research is co-funded by AF and MDA for both space platforms as well as Early Warning receiver applications. This is highly representative of the joint efforts and international implications of the Space Vehicles Directorate's research in electronics, sensors, cryogenic, thermal, and advanced architectural solutions being pursued. Virtually all space electronics are developed or derived from the work performed at Kirtland for commercial, DOD, and NASA uses. Infrared Focal Planes and Cryocoolers developed through these programs are also widely used by all services and organizations. Crucial space vehicles component development technologies as required to address AFSPC's Top 10 Capability areas' priorities, will be delayed or not developed, and technologies to improve awareness and

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION, SITE AND LOCATION KIRTLAND AIR FORCE BASE KIRTLAND SITE # 1 NEW MEXICO	4. PROJECT TITLE SPACE VEHICLES COMPONENT DEVELOPMENT LAB	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
72806	312-472	2445/MHMV043095	12,800

defensive capabilities for space systems applications will not be developed or transitioned to programs supporting command, control, communications, intelligence, surveillance, and reconnaissance missions in space. The geographically separated laboratories will continue to hinder program movement from initial experiments through scaled demonstrations and on to prototype development of advanced space concepts. These serious negative impacts to cost, control, and risk will continue to be excessive and unacceptable without this new high tech lab.

ADDITIONAL: **This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." All known alternative options were considered during the development of this project. A waiver to an economic analysis was approved for this project because no other option could meet the mission requirements. 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. Base Civil Engineer: (505) 846-7911. Component Development Lab: 2,390 SM = 25,726 SF.**

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

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
KIRTLAND AIR FORCE BASE KIRTLAND SITE # 1 NEW MEXICO	SPACE VEHICLES COMPONENT DEVELOPMENT LAB

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72806	312-472	2445/MHMV043095	12,800

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:

(a) Standard or Definitive Design - NO

(b) Where Design Was Most Recently Used -

(3) All Other Design Costs 512

(4) Construction Contract Award 16 FEB

(5) Construction Start 16 APR

(6) Construction Completion 17 AUG

(7) Energy Study/Life-Cycle analysis was/will be performed YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
SYSTEMS FURNITURE	3080	2017	554
EQUIPMENT	3400	2017	420
COMMUNICATIONS	3080	2017	350

1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST
SEYMOUR JOHNSON AIR FORCE BASE NORTH CAROLINA	AIR COMBAT COMMAND	COST INDEX 0.84

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	426	3587	598	56	8	0	38	279	281	5,273
END OF FY 2019	426	3587	598	56	8	0	38	279	281	5,273

7. INVENTORY DATA ($000)

a. Total Acreage: 4,117	
b. Inventory Total as of : (30 Sep 14)	1,371,536
c. Authorization Not Yet in Inventory:	6,168
d. Authorization Requested in this Program: (FY2016)	17,100
e. Planned in Next Four Year Program:	0
f. Remaining Deficiency:	122,600
g. Grand Total:	1,517,404

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
149-962	Air Traffic Control Tower/Base Ops	3,260 SM	17,100	Design/Build	
		Total	17,100		

9a. Future Projects: Typical Planned Next Four Years:

NONE	TOTAL	0

9b. Real Property Maintenance Backlog This Installation: ($M) 95.6

10. Mission or Major Functions: Air Combat Command; a fighter wing with 4 F-15E squadrons, including two which conduct initial qualification training, and an Air Force Reserve KC-135 air refueling wing.

11. Outstanding Pollution and Safety (OSHA Deficiencies):

a. Air Pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

DD Form 1390, 9 Jul 02

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
SEYMOUR JOHNSON AIR FORCE BASE SEYMOUR JOHNSON AIR FORCE BS SITE # 1 NORTH CAROLINA	AIR TRAFFIC CONTROL TOWER/BASE OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	149-962	3268/VKAG013004R5	17,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				11,434
AIR TRAFFIC CONTROL TOWER (149-962)	VM	46	118,200	(5,437)
BASE OPERATIONS (141-453)	SM	2,476	2,332	(5,774)
SUSTAINABILITY AND ENERGY MEASURES	LS			(223)
SUPPORTING FACILITIES				3,436
UTILITIES	LS			(450)
SITE IMPROVEMENTS	LS			(475)
PAVEMENTS	LS			(550)
DEMOLITION	SM	3,290	220	(724)
ASBESTOS & LEAD BASED PAINT REMOVAL	SM	3,290	65	(214)
COMMUNICATIONS SUPPORT	LS			(122)
ELEVATOR	LS			(476)
EMERGENCY GENERATORS	LS			(425)
SUBTOTAL				14,870
CONTINGENCY (5.0%)				743
TOTAL CONTRACT COST				15,613
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				890
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				595
TOTAL REQUEST				17,098
TOTAL REQUEST (ROUNDED)				17,100
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				1,350

10. Description of Proposed Construction: Construct an air traffic control tower with base operations facility using economical design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost cover effective. Construct using reinforced concrete foundation/pilings with floor slab, structural steel frame, exterior masonry walls, standing seam metal roof, utilities, fire detection/suppression, site improvements, pavements, asbestos/lead paint abatement, communication support, and all other supporting facilities. Demolish 3,290 SM. Facility will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

Air Conditioning: 120 Tons

11. Requirement: 2476 SM Adequate: 0 SM Substandard: 2979 SM

PROJECT: Construct Air Traffic Control Tower/Base Operations Facility. (Current Mission)

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
SEYMOUR JOHNSON AIR FORCE BASE SEYMOUR JOHNSON AIR FORCE BS SITE # 1 NORTH CAROLINA	AIR TRAFFIC CONTROL TOWER/BASE OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	149-962	3268/VKAG013004R5	17,100

REQUIREMENT: Construct an airfield operations facility which includes an Air Traffic Control Tower, Base Operations, Operations Support Squadron staff, Inflight Kitchen Addition, Wing Safety, and Weather offices with all other support. Facility provides command and control of all flight and ground operations around the installation.

CURRENT SITUATION: The Air Traffic Control Tower, Base Operations, In-flight Kitchen, Wing Safety, and Weather buildings are inadequately sized and configured for today's mission and high-tech equipment. Air traffic controllers do not have visual contact with all airfield surfaces due to facilities in the line of sight. Therefore, aircraft and ground personnel are at risk during aircraft movement. Access to the tower cab is narrow and unsafe. The control tower lacks space for required offices, operations cab, and simulator training for controllers. The Seymour Johnson control tower/radar approach control records an annual aircraft traffic count of approximately 110,000 flights making it the second busiest in Air Combat Command. These activities control 5,800 square miles of airspace. They provide radar services to 8 separate airports; assist and coordinate aircraft actions with 12 Federal Aviation Administration Air Traffic Control Centers, Terminal Radar Approach Controls, and control tower while managing the flow of aircraft in North Carolina's Eastern Region. In addition, operations support and central mission planning are located over a mile from the F-15E flying operations and training squadrons.

IMPACT IF NOT PROVIDED: Substandard/undersized Air Traffic Control Tower, Base Operations, In-flight Kitchen, Wing Safety, and Weather facilities will remain in service. Personnel operating on the flight line will remain at risk due to the inability of the tower to maintain visual contact with airfield surfaces; compromising safety. The DoD Advanced Automated Systems will have to be temporarily installed in the existing tower, causing the National Airspace System to suffer significantly. Air Traffic Control will be forced to control 5,800 square miles of airspace in an antiquated facility. Safety/reliability then remain a major concern if a safety of flight conflict arises. Proper safety monitoring under adverse weather conditions would be unavailable. Traffic flow would slow down considerably and services would have to be reduced. Critical operational support will continue to be located over a mile from operational flying squadrons.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements". An analysis of reasonable alternatives to meet this requirement (status quo, renovation, new construction) has been completed and new construction is the only viable option to meet this requirement. A certificate of exception has been prepared. 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, dated 1 March 2013. Base Civil Engineer: (919) 722-5142. Air Traffic Control Tower: 46 VM = 151 VF; Base Operations: 2,476 SM = 26,651 SF.

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

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
SEYMOUR JOHNSON AIR FORCE BASE SEYMOUR JOHNSON AIR FORCE BS SITE # 1 NORTH CAROLINA	AIR TRAFFIC CONTROL TOWER/BASE OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	149-962	3268/VKAG013004R5	17,100

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) All Other Design Costs	684
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	17 SEP
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
A6 COMMUNICATIONS AWITCHES	3400	2017	30
INITIAL OPERATING EQUIPMENTS	3080	2017	680
UNINTERRUPTIBLE POER SOURCE	3080	2017	40
FURNITURE	3400	2017	120
COMMUNICATIONS SUPPORT	3080	2017	480

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST
ALTUS AIR FORCE BASE	AIR EDUCATION AND	COST INDEX
OKLAHOMA	TRAINING COMMAND	0.98

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	263	1090	1186	277	160	18	0	0	546	3,540
END FY 2019	297	1128	1321	1149	604	79	0	0	596	5,174

7. INVENTORY DATA ($000)	
a. Total Acreage: 5,048	
b. Inventory Total as of : (30 Sep 14)	930,057
c. Authorization Not Yet in Inventory:	24,921
d. Authorization Requested in this Program: (FY2016)	28,400
e. Planned in Next Four Year Program:	13,900
f. Remaining Deficiency:	16,800
g. Grand Total:	1,014,078

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY2016)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
721-312	Dormitory (120 Rm)	3,960	SM	18,000	Design/Build	
211-179	KC-46A FTU ADAL Fuel Cell Maintenance	4,891	SM	10,400	May-13	Jan-14
		TOTAL		28,400		

9a. Future Projects: Typical Planned Next Four Years:

171-212	KC-46A FTU Fuselage Trainer Ph 2	921	SM	3,500
171-625	KC-46A FTU Simulator Facility Ph 2	2,063	SM	10,400
		TOTAL		13,900

9b. Real Property Maintenance Backlog This Installation: ($M)	63

10. Mission or Major Functions: The 97 AMW is responsible for formal training of all C-17 and KC-135 for active duty, Guard and Reserve aircrews, while maintaining worldwide capability to augment Global Reach contingency support. The 97 AMW has complete responsibility for all refueling of military aircraft in its assigned sector of the continental United States. In addition, the 97 AMW is an integral part of two Strategic Homeland Defense Missions, Coastal Defense and Maritime Interdiction.

11. Outstanding pollution and Safety (OSHA) Deficiencies:	
a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
ALTUS AIR FORCE BASE ALTUS AIR FORCE BASE SITE # 1 OKLAHOMA	KC-46A FTU ADAL FUEL CELL MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
41976	211-179	1361/AGGN143005A	10,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				7,838
CONSTRUCT HANGAR EXTENSION	SM	1,145	5,476	(6,270)
ALTERATION WORK	SM	3,746	377	(1,412)
SUSTAINABILITY AND ENERGY MEASURES	LS			(156)
SUPPORTING FACILITIES				1,568
PAVEMENTS	LS			(439)
UTILITIES	LS			(121)
COMMUNICATIONS	LS			(14)
SITE IMPROVEMENTS	LS			(994)
SUBTOTAL				9,406
CONTINGENCY (5.0%)				470
TOTAL CONTRACT COST				9,877
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				563
TOTAL REQUEST				10,440
TOTAL REQUEST (ROUNDED)				10,400

10. Description of Proposed Construction: Add/Alter hangar 518 to fully enclose the KC-46A, KC-135 and C-17 assigned aircraft. Construction shall utilize economical design and construction methods to accommodate the fuel cell maintenance mission of the facility. The facility shall be compatible with applicable DOD, Air Force, and base design standards. In addition, local materials, and construction techniques shall be used where cost effective. Work includes, but is not limited to, site work, pavements, structural, mechanical, electrical and fire detection/suppression systems to provide a complete and useable facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection per UFC 4-010-01.

Air Conditioning: 0 Tons

11. Requirement: 4891 SM Adequate: 3746 SM Substandard: 0 SM

PROJECT: KC-46A FTU ADAL FUEL CELL MAINTENANCE HANGAR (New Mission)

REQUIREMENT: The AF has designated Altus AFB, OK as the Formal Training Unit (FTU) for the KC- 46A tanker aircraft. Facility will support enterprise training and beddown of a KC-46A training squadron comprised of 6 to 8 aircraft scheduled for delivery beginning in FY16. An adequately sized and configured, fully enclosed fuel cell hangar is required to support the beddown of the KC-46A tanker while also accommodating the wing's KC-135 and C-17 aircraft. An additional 1,145 SM must be added to the existing KC-135 and C-17 fuel cell maintenance structure to accommodate the taller tail section and fully enclose the KC-46A airframe, and provide aircraft maintenance personnel 24-hour out-of-the weather workspace to

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
ALTUS AIR FORCE BASE ALTUS AIR FORCE BASE SITE # 1 OKLAHOMA	KC-46A FTU ADAL FUEL CELL MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
41976	211-179	1361/AGGN143005A	10,400

perform repairs, inspections and scheduled maintenance in support of the new mission in accordance with AFMAN 32-1084, Para 3.1.2 and Table 3.1, KC-46A Facilities Requirement Plan and KC-46A Strategic Basing Criteria.

CURRENT SITUATION: Existing fuel cell facilities utilized for KC-135 and C-17 maintenance are nose docks and are not properly configured to support the KC-46A. Altus Air Force Base lacks a fuel cell that will completely enclose the KC-46A air frame as required by the KC-46A FRP. The fuel cell will continue to support maintenance of the KC-135 and C-17.

IMPACT IF NOT PROVIDED: If this project is not executed by 2016, the Altus AFB training mission will be degraded with a risk to Mobility Air Force student production. Work arounds would have a significant negative impact on the mission capable rate of both existing airframes and the KC-46A. These proposed work arounds include using the corrosion control facility which is currently at an 80% utilization rate. Implementing this course of action will delay corrosion control work and fuel cell work on both KC-135 and C-17 assigned aircraft. Additionally, the corrosion control facility is not configured for tank ventilation. This requires employees to utilize mobile ventilation and creates a slightly higher safety risk as this is not the normal fuel cell maintenance procedure. Of note, any maintenance down time of 7 days or more to a single KC-46A will cause an irretrievable loss of up to 4 trained pilots and 4 boom operators per month.

ADDITIONAL: The criteria/scope for this project is contained in the KC-46A Formal Training Unit Beddown Program Plan 14-01. As a new weapons system, Air Force Manual 32-1084 Facility Requirements does not adequately address the operational, training, and security requirements of the KC-46A training mission. This work was initially submitted as an FY14 project (AGGN143005) for $3.5M, but additional requirements were subsequently uncovered, thus requiring a new project to accomplish this work. An economic analysis of reasonable options was accomplished comparing alternatives of addition/alteration and new construction, concluding that an addition/alteration of an existing facility was most effective. 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, dated 1 March 2013. Base Civil Engineer, COMM: 580-481-6530. Construct Hangar Extension: 1,145 SM = 12,325 SF; Alter Hangar: 3,746 SM = 40,322 SF.

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 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ALTUS AIR FORCE BASE ALTUS AIR FORCE BASE SITE # 1 OKLAHOMA	KC-46A FTU ADAL FUEL CELL MAINTENANCE HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41976	211-179	1361/AGGN143005A	10,400

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	20-NOV-14
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2015	15%
* (d) Date 35% Designed	28-JAN-15
(e) Date Design Complete	30-SEP-15
(f) 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	624
(b) All Other Design Costs	312
(c) Total	936
(d) Contract	780
(e) In-house	156
(4) Construction Contract Award	**16 FEB**
(5) Construction Start	**16 MAR**
(6) Construction Completion	**17 SEP**

*** 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:
N/A

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
ALTUS AIR FORCE BASE ALTUS AIR FORCE BASE SITE # 1 OKLAHOMA	DORMITORY (120 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
85976	721-312	1361/AGGN123003	18,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				11,919
PERMANENT PARTY DORMITORY	SM	3,960	2,951	(11,686)
SUSTAINABILITY AND ENERGY MEASURES	LS			(233)
SUPPORTING FACILITIES				3,564
UTILITIES	LS			(750)
SITE IMPROVEMENTS	LS			(500)
COMMUNICATIONS	LS			(554)
PAVEMENTS	LS			(525)
DEMOLITION	SM	4,410	280	(1,235)
SUBTOTAL				15,483
CONTINGENCY (5.0%)				774
TOTAL CONTRACT COST				16,257
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				927
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				619
TOTAL REQUEST				17,803
TOTAL REQUEST (ROUNDED)				18,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				977

10. Description of Proposed Construction: Construct a four-story dormitory using economical design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost cover effective. Construction includes sprinkler-equipped facility with reinforced concrete foundation, floor slabs, concrete masonry unit exterior walls, and standing-seam metal roof system. Includes Dorm-4-Airmen modules, laundries, storage, lounge area, communications support, utilities, interior finishes, roads, parking, site improvements, and all necessary supporting facilities for a complete and usable facility. Demolishes two facilities (4,410 SM). Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

Air Conditioning: 110 Tons Grade Mix: E1-E4 120

11. Requirement: 3960 SM Adequate: 0 SM Substandard: 3366 SM

PROJECT: Dormitory (120 PN). (Current Mission)

REQUIREMENT: As a major objective, the US Air Force provides housing conducive to Airmen's proper rest, relaxation and personal well-being. Properly designed, constructed and furnished quarters providing sufficient individual privacy are essential to the successful accomplishment of the critical and demanding missions these Airmen execute. This project is required to replace Tier 2 dormitories;

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
ALTUS AIR FORCE BASE ALTUS AIR FORCE BASE SITE # 1 OKLAHOMA	DORMITORY (120 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
85976	721-312	1361/AGGN123003	18,000

defined as inadequate and unserviceable. This project will construct a replacement dorm that will provide unaccompanied enlisted personnel with housing conducive to proper rest, relaxation, and personal well-being. Construction will meet force protection criteria, including progressive collapse, blast protection, and standoff distances. This project is in accordance with the 2010 Air Force Dorm Master Plan (DMP) approved for Altus AFB.

CURRENT SITUATION: The 2010 Air Force DMP established the need for construction of one new dorm and demolition of two existing dorms at Altus Air Force Base. Currently, Altus AFB has three enlisted dormitories with space for 306 personnel, three day rooms, and three common use kitchenettes. All three dorms are over 25 years old and in Tier 2 condition. A separate project is currently underway to renovate one of the dorms, while this project will demolish one of the two required in the DMP. No major renovations to these dorms have occurred since their construction in the mid-1980s. The dorm slated for demolition in this project has been condemned due to the unsafe conditions posed by the deterioration of the building and is no longer in use. The other dorm continues to experience regular failures in the HVAC, plumbing and electrical systems. Lack of proper ventilation allows for the growth of mold. The failures in the plumbing system, which is beyond its useful life-cycle, pose health and safety risks to the residents. The standing seam metal roof is beyond its useful life-cycle and is cause for multiple leaks that must be repaired. Maintaining these facilities requires continuous maintenance and repair work. Additionally, these dorms do not meet antiterrorism and force protection requirements.

IMPACT IF NOT PROVIDED: Our enlisted airmen will continue to reside in deteriorating, substandard, energy-inefficient facilities that require constant maintenance and repair. As the building's age, the quality of living conditions for the airmen will decline, resulting in the degradation of morale, productivity and career satisfaction for unaccompanied enlisted personnel. Retention of these highly-trained personnel is essential to the success of the mission at Altus AFB.

ADDITIONAL: This project meets the criteria and scope specified by Air Force Manual 32-1084, "Facility Requirements", the Dorm-4-Airmen Design Guide, and the AF Dorm Master Plan. All known alternatives were considered during the development of this project. An economic analysis is being prepared comparing the reasonable alternatives of new construction/replacement, renovation, and status quo. We anticipate, based on net present values and benefits of the respective alternatives, new construction will be the most cost-effective option. 2014 unaccompanied housing RPM conducted: $587,000; FY2015 unaccompanied RPM planned: $710,000. Future unaccompanied housing RPM planned: FY16: $951,000; FY17: $1,464,000. 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, dated 1 March 2013. Base Civil Engineer: 580-481-6530, DSN 866-6530. 120 PN Enlisted Permanent Party Dorm: 3,960 SM = 42,625 SF

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 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ALTUS AIR FORCE BASE ALTUS AIR FORCE BASE SITE # 1 OKLAHOMA	DORMITORY (120 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85976	721-312	1361/AGGN123003	18,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) All Other Design Costs	720
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	18 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNITURE, FIXTURES, AND EQUIP	3400	2017	977

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE OKLAHOMA	4. COMMAND: AIR FORCE MATERIEL COMMAND:	5. AREA CONST COST INDEX 0.91

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
AS OF 30 SEP 14	278	820	12475	0	0	0	1028	4718	623	19,942
END FY 2010	275	825	12176	0	0	0	983	4462	537	19,258

7. INVENTORY DATA ($000)

Total Acreage:	5,033	
Inventory Total as of : (30 Sep 14)		4,225,942
Authorization Not Yet in Inventory:		176,262
Authorization Requested in this Program:		37,000
Planned in Next Four Program Years		179,000
Remaining Deficiency:		906,125
Grand Total:		5,524,329

8. PROJECTS REQUESTED IN THIS PROGRAM: 2016

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
149-962	Air Traffic Control Tower	42	VM	$12,900	Design	Build
211-116	KC-46A Depot Maintenance Dock	5,110	SM	37,000	Design	Build
		Total		37,000		

9a. Future Projects: Typically Planned Next Four Years

141-764	KC-46A Depot System Integration Lab	4,613	SM	17,000
211-116	KC-46A Depot Jet EngineTest Cell	2,521	SM	23,000
211-116	KC-46A Depot Maintenance Hangar	30,077	SM	139,000
		Total		179,000

9b. Real Property Maintenance Backlog This Installation: ($M) 563

10. Mission or Major Functions: Tinker Air Force Base combined mission includes operations, supply, maintenance and management in support of the 76th Maintenance Wing, 552nd ACW, 327th Air Sustainment Wing, 448th Combat Sustainment Wing, 3rd Combat Comm, Air Force Reserves, Navy Stratcomm Wing One, 72nd Air Base Wing, Defense Logistics Agency and Defense Information Systems Agency.

11. Outstanding pollution and Safety (OSHA) Deficiencies:

a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA	AIR TRAFFIC CONTROL TOWER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
72976	149-962	3342/WWYK093003	12,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				5,765
CONTROL TOWER (149-962)	VM	42	117,200	(4,922)
SIMULATION BUILDING (141-453)	SM	49	6,837	(335)
TORNADO SHELTER (738 - 401)	SM	75	4,860	(365)
SUSTAINABILITY AND ENERGY MEASURES	LS			(143)
SUPPORTING FACILITIES				5,468
UTILITIES	LS			(850)
SITE IMPROVEMENTS	LS			(760)
DRILLED PIERS	LS			(340)
COMMUNICATIONS	LS			(392)
DEMOLITION PARKING	LS			(26)
DEMOLITION - EXISTING CONTROL TOWER	VM	31	10,500	(326)
PAVEMENTS	LS			(1,174)
EMERGENCY GENERATORS	LS			(500)
ELEVATOR	LS			(500)
ACCESS ROADWAY	LS			(600)
SUBTOTAL				11,233
CONTINGENCY (5.0%)				562
TOTAL CONTRACT COST				11,795
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				672
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				449
TOTAL REQUEST				12,916
TOTAL REQUEST (ROUNDED)				12,900
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				1,350

10. Description of Proposed Construction: Construct an Air Traffic Control Tower to include reinforced concrete drilled piers, foundation, floor slab, supporting superstructure, control tower cab with tinted double glazing, elevator, supervision, and simulation training areas. The facility will be designed as permanent construction in accordance with UFC 1-200-01. Includes fire protection systems, back-up power, communications support, tornado shelter, site preparation and drainage, access road and parking area, and other necessary support for a complete and useable facility. Comply with DoD Antiterrorism/Force Protection per unified facilities criteria 4-010-01 to include resisting progressive collapse. Communications will connect to a primary Information Transfer Node (ITN) and a secondary ITN back up. Demolish existing control tower.

Air Conditioning: 24 Tons

11. Requirement: 42 VM Adequate: 0 VM Substandard: 31 VM

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA	AIR TRAFFIC CONTROL TOWER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
72976	149-962	3342/WWYK093003	12,900

PROJECT: Air Traffic Control Tower. (Current Mission)

REQUIREMENT: An air traffic control tower is required to provide air traffic controllers a clear view of the airfield runways, traffic patterns, restricted areas and parking areas to ensure adequate and safe airborne and ground traffic control on and around the airfield. Provide adequate space for crew briefings, personnel training, electronic equipment maintenance, radio and telephone support equipment, environmental control equipment, and controller administrative functions.

CURRENT SITUATION: The existing control tower, Bldg 935, was designed and built in 1970 and provides less than 50 percent of the required space to support today's mission. The structural, mechanical, and electrical components of the control tower have deteriorated to the point that repairs are often required. The control tower, as currently sited, violates the current Air Force siting criteria since it is less than 1000 feet from the runway centerline. The building is substandard and is not adequate to allow renovation to incorporate all current control tower functions. A Risk Assessment Code (RAC) 2 and a Fire Safety Deficiency Code (FSDC) II have been assigned to the existing control tower. It is not practical to renovate the existing control tower cab in order to comply with the current Life and Fire Safety standards and seismic requirements. Presently, training is accomplished concurrently with day-to-day operations in the tower cab and at the base of the tower in the Control Tower Simulator building. The tower cab, by today's standards, is too small and cramped to accommodate all the occupants. There is insufficient space to carry out administrative, operational and training functions associated within the tower operations area.

IMPACT IF NOT PROVIDED: The control tower will continue to violate Air Force siting criteria and life safety codes. Flight safety of the warfighter will be compromised as it is today and delays related to movements of aircraft and vehicles on the airfield will continue. Training will be substandard due to overcrowded conditions.

ADDITIONAL: This project meets the criteria/scope specified in the AFM 32-1084, "Facility Requirements". 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 project shall comply with National Fire Protection Association, NFPA, Life Safety Code, NFPA 101.and the Air Force Air Traffic Control Tower Design Guide. A waiver from an economic analysis is approved dated 25 May 09 because there is only one method possible to accomplish this objective. Base Civil Engineer: (405) 734-3451. Control Tower: 42 vertical meters = 138 vertical feet; Simulation Building: 49 SM = 528 SF; Tornado Shelter: 75 SM = 810 SF.

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 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA	AIR TRAFFIC CONTROL TOWER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72976	149-962	3342/WWYK093003	12,900

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) All Other Design Costs	516
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 APR
(6) Construction Completion	17 AUG
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNITURE	3400	2017	120
A6 COMMUNICATION AWITCHES	3080	2017	30
COMMUNICATIONS	3080	2017	480
INITIAL OPERATING EQUIPMENT	3400	2012	680
UNINTERRUPTIBLE POWER SOURCE	3080	2017	40

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA	KC-46A DEPOT MAINTENANCE DOCK

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
41221	211-116	3342/WWYK163002	37,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				15,414
DEPOT MAINTENANCE DOCK	SM	5,110	2,838	(14,502)
SUSTAINABILITY AND ENERGY MEASURES	LS			(302)
SPECIAL FOUNDATIONS	LS			(610)
SUPPORTING FACILITIES				16,969
UTILITIES: ELECTRIC SERVICE	LS			(1,366)
UTILITIES: WATER, SEWER, GAS, AND STORM	LS			(1,014)
UTILITIES: STEAM & CHILLED WATER DISTRIBUTION	LS			(1,684)
UTILITIES: COMMUNICATION	LS			(474)
SITE IMPROVEMENTS	LS			(1,011)
PASSIVE FORCE PROTECTION	LS			(245)
PAVEMENTS, WALKS, CURBS, ETC.	LS			(7,795)
FUEL STORAGE TANKS, FUEL PIT, PIPING	LS			(3,380)
SUBTOTAL				32,383
CONTINGENCY (5.0%)				1,619
TOTAL CONTRACT COST				34,002
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,938
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				1,295
TOTAL REQUEST				37,236
TOTAL REQUEST (ROUNDED)				37,000)
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(8,719

10. Description of Proposed Construction: Construct a single-bay depot aircraft maintenance facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition; local materials and construction techniques shall be used where cost effective. Includes clearing and grading site, storm drainage, environmental remediation, aircraft parking and movement area, utility infrastructure systems; electrical, water, sewer, communications, roads, liquid fuel storage tanks, aircraft fuel piping, hydrant fueling pit, and all other supporting facilities. Facility will be designed as permanent construction in accordance with DoD unified facilities criteria - UFC 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria - UFC 4-010-01.

Air Conditioning: 100 Tons

11. Requirement: 17210 SM Adequate: 12100 SM Substandard: 0 SM

PROJECT: KC-46A Depot Maintenance Dock. (New Mission)

REQUIREMENT: Tinker AFB currently supports depot maintenance for multiple USAF aircraft and has been designated source of repair for the depot maintenance of the

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA	KC-46A DEPOT MAINTENANCE DOCK

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
41221	211-116	3342/WWYK163002	37,000

KC-46A aircraft. A depot maintenance dock is required to provide a reliable and responsive source for repair and maintenance for these first line weapon systems. The first aircraft will arrive at Tinker for phased depot maintenance by early-2018. Full production is projected to be 90 aircraft per year. This project will provide a second maintenance dock and supporting infrastructure to enable meeting this future workload.

CURRENT SITUATION: Neither infrastructure nor adequate maintenance docks are currently available at this site to support the future KC-46A depot maintenance workload. Phased depot maintenance ensures aircraft are properly, timely, and efficiently maintained & repaired to ensure safety for the pilots and longevity of the aircraft.

IMPACT IF NOT PROVIDED: Failure to construct this project would critically impact the Air Force's ability to quickly, safely, and efficiently repair and maintain this new weapon system. Phased depot maintenance is critical to the KC-46A mission.

ADDITIONAL: This project meets the criteria/scope specified in the Air Force Manual 32-1084, "Facility Requirements". All known alternative options were considered during the development of this project. No other option could meet the mission requirements. A certificate of exception has been prepared. 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 dated 1 March 2013. Base Civil Engineer: (405) 734-3451. Depot Maintenance Dock; 5,110 SM = 55,000 SF.

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 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
TINKER AIR FORCE BASE TINKER AFB SITE # 1 OKLAHOMA	KC-46A DEPOT MAINTENANCE DOCK

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41221	211-116	3342/WWYK163002	37,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) All Other Design Costs	1,480
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	18 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNISHINGS	3400	18	75
COMPUTERS	3400	18	23
COMMUNICATIONS	3400	18	109
PERSONAL PROTECTIVE EQUIPMENT	3400	18	12
AGE,SE,STANDS,TESTERS,TOOLING	3010	18	8,500

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION: ELLSWORTH AIR FORCE BASE SOUTH DAKOTA	4. COMMAND: AIR COMBAT COMMAND	5. AREA CONST COST INDEX 0.98

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	380	2859	565	2	6	0	2	30	102	3,946
END OF FY 2019	380	2859	565	2	6	0	2	30	102	3,946

7. INVENTORY DATA ($000)	
a. Total Acreage: 6,180	
b. Inventory Total as of : (30 Sep 14)	1,720,530
c. Authorization Not Yet in Inventory:	0
d. Authorization Requested in this Program: (FY2016)	23,000
e. Planned in Next Four Year Program:	0
f. Remaining Deficiency:	121,800
g. Grand Total:	1,865,330

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
721-312	Dormitory (168 RM)	5,544 SM	23,000	May-14	Sep-15
		TOTAL	23,000		

9a. Future Projects: Typical Planned Next Four Years:

NONE	TOTAL	0

9b. Real Property Maintenance Backlog This Installation: ($M) 321.1

10. Mission or Major Functions: Air Combat Command; a bomb wing and home to the 34th Bomb Squadron (B-1Bs), 37th Bomb Squadron (B-1Bs), 432nd Attack Squadron (MQ-9s), and 28th Operations Support Squadron.

11. Outstanding Pollution and Safety (OSHA Deficiencies):

a. Air Pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
ELLSWORTH AIR FORCE BASE ELLSWORTH AFB SITE # 1 SOUTH DAKOTA	DORMITORY (168 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-312	1711/FXBM063002	23,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
DORMITORY (168 RM)				14,860
DORMITORY	SM	5,544	2,628	(14,568)
SUSTAINABILITY AND ENERGY MEASURES	LS			(291)
SUPPORTING FACILITIES				5,438
UTILITIES	LS			(856)
PAVEMENTS	LS			(1,082)
SITE IMPROVEMENTS	LS			(884)
DEMOLITION	SM	4,818	192	(923)
OVEREXCAVATION & ENGINEERED FILL	LS			(530)
COMMUNICATION SUPPORT	LS			(513)
GROUND SOURCE HEAT PUMP	EA	1	650,000	(650)
SUBTOTAL				20,298
CONTINGENCY (5.0%)				1,015
TOTAL CONTRACT COST				21,313
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,215
TOTAL REQUEST				22,528
TOTAL REQUEST (ROUNDED)				23,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				1,704

10. Description of Proposed Construction: Three-story building with reinforced concrete foundation and floor slabs, insulated exterior masonry walls, standing seam metal roof, utilities, communication support, fire detection/protection, pavements, landscaping, site improvements, engineered fill to counteract expansive clay soils, ground source heat pump for heat source, demolish one facility (4,818 SM), and all necessary support. Force protection measures includes reinforced exterior walls and fully laminated windows. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

Air Conditioning: 200 Tons Grade Mix: E1-E4 168

11. Requirement: 5544 SM Adequate: 0 SM Substandard: 4818 SM

PROJECT: Construct a Dormitory (168 RM). (Current Mission)

REQUIREMENT: This project is required to implement the CSAF's goal to recapitalize all Tier 2 dorms. Tier 2 dorms are those that are degraded as recorded in the Dorm Master Plan dated 5 Mar 2012. This project will provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation, and personal well-being. Properly designed and furnished quarters providing individual privacy are essential to successful accomplishment of the increasingly complicated and important jobs our airmen must perform.

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
ELLSWORTH AIR FORCE BASE ELLSWORTH AFB SITE # 1 SOUTH DAKOTA	DORMITORY (168 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-312	1711/FXBM063002	23,000

CURRENT SITUATION: The Air Force Dormitory Master Plan established the need for a replacement dormitory. Facility condition assessments determined Ellsworth's dormitories are degraded. This project is prioritized in accordance with the Air Force Dormitory Master Plan.

IMPACT IF NOT PROVIDED: Adequate living quarters at a level of privacy required for today's airman will not be available, resulting in degradation of morale, productivity, and career satisfaction for unaccompanied enlisted personnel. The existing facilities will continue to deteriorate due to their age resulting in increased maintenance costs and a decreased quality of life for occupants.

ADDITIONAL: Support costs are higher than typically seen at other installations due to existing soil conditions at Ellsworth. Also, support costs include funds for construction of a ground source heat pump to make the facility more energy efficient and to take advantage of the natural heat-exchanging capability of the soil. This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. 2014 unaccompanied housing RPM conducted: $44,800; FY2015 unaccompanied RPM planned: $42,500. Future unaccompanied housing RPM planned: FY16: $42,500; FY17: $42,500. 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, dated 1 March 2013. Base Civil Engineer: 605-385-2658. (Dormitory: 5,544 SM = 59,675 SF)

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 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ELLSWORTH AIR FORCE BASE ELLSWORTH AFB SITE # 1 SOUTH DAKOTA	DORMITORY (168 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	721-312	1711/FXBM063002	23,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used -

(3) All Other Design Costs 690

(4) Construction Contract Award 16 FEB

(5) Construction Start 16 MAR

(6) Construction Completion 18 MAR

(7) Energy Study/Life-Cycle analysis was/will be performed YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNITURE	3400	2017	1,584
COMMUNICATION EQUIPMENT	3400	2017	120

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST
JB SAN ANTONIO - LACKLAND AFB	AIR EDUCATION AND	COST INDEX
TEXAS	TRAINING COMMAND	0.87

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	697	3,500	3,051	653	9,776	10	1,634	7,557	5,708	32,586
END FY 2019	683	3,466	3,054	653	9,776	10	1,672	7,179	6,630	33,123

7. INVENTORY DATA ($000)	
a. Total Acreage: 2,311	
b. Inventory Total as of : (30 Sep 14)	2,964,124
c. Authorization Not Yet in Inventory:	257,611
d. Authorization Requested in this Program: (FY2016)	106,000
e. Planned in Next Four Year Program:	172,902
f. Remaining Deficiency:	793,577
g. Grand Total:	4,294,214

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
171-621	BMT Classrooms/Dining Facility 3	9,898 SM	35,000	May-14	Sep-15
721-311	BMT Recruit Dormitory 5	26,065 SM	71,000	May-14	Sep-15
		TOTAL	106,000		

9a. Future Projects: Typical Planned in Next Four Years:

149-962	Air Traffic Control Tower	586 SM	9,800
171-621	BMT Classrooms/Dining Facility 4	5,891 SM	22,802
721-311	BMT Recruit Dormitory 6	26,065 SM	67,300
721-311	BMT Recruit Dormitory 7	26,065 SM	73,000
		TOTAL	172,902

9b. Real Property Maintenance Backlog This Installation: ($M)	375

10. Mission or Major Functions: A training wing which includes Basic Military Training School, Security Forces, Combat Convoy/Arms/Control, Pararescue, Survival Evasion Resistance Escape, Logistics, Enlisted Aircrew, Services, Contracting, Vehicle Maintenance, and Military Training Instructor, Defense Language Institute English Language Center, and Inter-American Air Forces Academy, Department of Defense Military Working Dog Training. Additional missions include Air Force Security Forces Center, Recruiting, cryptographic maintenance, Air Force Reserve C-5 training, a major Air Force medical center, and Intelligence/Reconnaissance/Surveillance Operations.

11. Outstanding pollution and Safety (OSHA) Deficiencies:	
a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AIR FORCE BASE SITE # 1 TEXAS	BMT CLASSROOMS/DINING FACILITY PHASE 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
85976	171-621	2461/MPLS083737S3	35,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				26,708
BMT CLASSROOMS (171621)	SM	4,846	2,725	(13,205)
DINING & SERVERY (722351)	SM	3,228	2,566	(8,283)
KITCHEN, BAKERY, FOOD STORAGE (723385)	SM	1,824	2,566	(4,680)
SUSTAINABILITY AND ENERGY MEASURES	LS			(539)
SUPPORTING FACILITIES				4,448
SITE IMPROVEMENTS	LS			(981)
UTILITIES	LS			(1,674)
CHILLED AND HOT WATER DISTRIBUTION PIPING	LS			(50)
PAVEMENTS	LS			(1,040)
SPECIAL DRILLED PIER FOUNDATION	LS			(435)
COMMUNICATIONS INFRASTRUCTURE	LS			(268)
SUBTOTAL				31,156
CONTINGENCY (5.0%)				1,558
TOTAL CONTRACT COST				32,714
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,865
TOTAL REQUEST				34,578
TOTAL REQUEST (ROUNDED)				35,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				1,793.0

10. Description of Proposed Construction: Construction includes a multi-story facility consisting of a drilled pier foundation, concrete floor slabs, structural steel frame, masonry walls, standing seam metal roof, and an elevator. Areas include kitchen, dining areas, and multiple classrooms for the residents of two Airmen Training Complexes (ATC). Continues the utility and storm drainage infrastructure. Provides all necessary support and restores all areas disturbed by construction. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC 1-200-01). This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 520 Tons

11. Requirement: 39592 SM Adequate: 19796 SM Substandard: 19796 SM

PROJECT: Construct Basic Military Training (BMT) Satellite Classroom/Dining Facility (Current Mission)

REQUIREMENT: A major Air Force objective is to provide recruits with facilities conducive to their proper housing, dining, and training. Properly sized, sited, designed, and furnished facilities are essential to successfully train future Air Force enlisted personnel. This project provides the third of four satellite dining hall/classroom buildings in the Recruit Housing and Training (RH&T) facility replacement program. Each satellite facility will serve two new recruit dormitories

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AIR FORCE BASE SITE # 1 TEXAS	BMT CLASSROOMS/DINING FACILITY PHASE 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
85976	171-621	2461/MPLS083737S3	35,000

(~2500 recruits). This program replaces dining hall and classroom facilities that are currently located in the Basic Military Training Squadron dormitory buildings. The ground floor will consist of a serving area, a kitchen, and a dining area. Provides for laundry pickup and a minor clinic support area. The second and third floors will consist of classrooms. Pavements include parking and a delivery road. Companion project will be to construct the fifth of eight total dormitories, Project No. MPLS083737R5.

CURRENT SITUATION: RH&T facilities, the BMT program, and Lackland AFB form an initial, but lasting impression of the Air Force to all new recruits. Existing 220,000 SF RH&T facilities, originally constructed in the 1960's and 1970's, were designed to provide housing, dining, classrooms, and other training space in one facility in order to develop teamwork, discipline, and espirit de corps among the recruits. These facilities are outdated and are inadequate to support current and planned accessions of Air Force Active Duty, Reserve, and Air National Guard personnel considering future force structure and strength. Due to deterioration, age, and exceeding their useful life, the RH&Ts require significant O&M capital to keep them operational -- an estimated annual average of $2.1M per RH&T ($16.8M for the existing 8 RH&T facilities). BMT has difficulty accommodating summer recruit surges while accomplishing maintenance, repair and renovation projects of the aging, inadequate, and substandard RH&Ts. Recruits do not have the minimum standard square footage during surge and overhaul periods forcing as many as 65 recruits per flight in facilities designed for 50 recruits per flight. The existing classroom space in the RH&Ts is approximately one-half of what is needed. The mechanical, electrical, and lighting systems and interior finishes are at the end of their useful lives and require replacement. The food preparation and serving areas are currently located in each RH&T building and need to be centralized to improve efficiency and accommodate new equipment.

IMPACT IF NOT PROVIDED: Without quality BMT programs and adequate facilities, the Air Force will have difficulty recruiting, training, and retaining new recruits. Facilities will continue to age and will require increasingly more capital to keep them operational. During surge periods, or when existing RH&Ts are being repaired, maintained, or overhauled, flight sizes will increase and recruits will continue to live in space with less than the minimum standard square footage per recruit.

ADDITIONAL: This project meets the criteria/scope specified in Air Force handbook 32-1084, "Standard Facility Requirements Handbook." The OSD dormitory standard does not apply as It is excluded as a recruit dormitory. A full Economic Analysis has been completed showing that new construction is the most viable method to meet this requirement. Sustainable principles, to include life cycle effective practices, will be integrated into the design, development, and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (210) 671-2977. BMT Classrooms: 4,846 SM = 52,161 SF; Dining and Servery: 3,228 SM =34,733 SF; Kitchen, Bakery, and Food Storage: 1,824 SM = 19,405 SF.

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 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AIR FORCE BASE SITE # 1 TEXAS	BMT CLASSROOMS/DINING FACILITY PHASE 3

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85976	171-621	2461/MPLS083737S3	35,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	21-MAY-14
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2015	15%
* (d) Date 35% Designed	31-MAR-15
(e) Date Design Complete	30-SEP-15
(f) 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 -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	500
(b) All Other Design Costs	250
(c) Total	750
(d) Contract	625
(e) In-house	125
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	18 MAR

* 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
CLASSROOM FURNISHINGS	3400	2017	400
DINING FURNISHINGS	3400	2017	1,284
ADPE	3400	2017	109

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AIR FORCE BASE SITE # 1 TEXAS	BMT RECRUIT DORMITORY 5

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
85976	721-311	2461/MPLS083737R5	71,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				43,346
RECRUIT DORMITORY (1248 PN) (721311)	SM	21,121	1,617	(34,153)
MTI ADMINISTRATIVE SPACE (171627)	SM	1,261	2,183	(2,753)
TRAINING/FORMATION OPEN SPACE (171833)	SM	3,283	1,440	(4,728)
WEAPONS CLEANING PAVILION (171618)	SM	400	2,159	(864)
SUSTAINABILITY AND ENERGY MEASURES	LS			(850)
SUPPORTING FACILITIES				20,969
SITE IMPROVEMENTS PLUS EISA/STORM WATER/PONDS	LS			(3,993)
EXERCISE/DRILL PAD AND RUNNING TRACK	LS			(3,100)
UTILITIES	LS			(6,293)
PAVEMENTS	LS			(1,000)
SPECIAL DRILLED PIER FOUNDATION	LS			(957)
COMM INFRASTRUCTURE & RELOCATION	LS			(717)
DEMOLISH FACILITIES	SM	20,320	156	(3,162)
RELOCATE RUNNING TRAIL AND BASEBALL FIELD	LS			(800)
WEST CAMPUS HAUL ROUTE & FENCING	LS			(947)
SUBTOTAL				64,315
CONTINGENCY (5.0%)				3,216
TOTAL CONTRACT COST				67,531
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				3,849
TOTAL REQUEST				71,380
TOTAL REQUEST (ROUNDED)				71,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				2,750.0

10. Description of Proposed Construction: Construct a Basic Military Training (BMT) Recruit Dormitory using economical design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. Local materials and construction techniques shall be used where cost effective. Project includes administrative support, open-bay dormitories, central latrines, drill pad and running track, weapons cleaning pavilion, physical training areas, storage, semi-improved construction access road, west campus fencing, burial of aerial circuits, power and associated ductbank form switching station to the dormitory, added power capacity to the existing switching station, retention and detention ponds, and communications infrastructure and switch and equipment relocation to include a new ductbank, and relocate a baseball field and running trail. Demolishes facilities totaling 20,320 SM. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD anti-terrorism/force protection requirements per UFC 4-010-01.

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION, SITE AND LOCATION JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AIR FORCE BASE SITE # 1 TEXAS	4. PROJECT TITLE BMT RECRUIT DORMITORY 5	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
85976	721-311	2461/MPLS083737R5	71,000

Air Conditioning: 450 Tons

11. Requirement: 208520 SM Adequate: 104260 SM Substandard: 104260 SM

PROJECT: Construct Recruit Dormitory (Current Mission)

REQUIREMENT: A major Air Force objective is to provide recruits with facilities conducive to their proper housing, dining, and training. Properly sized, sited, designed, and furnished facilities are essential to successfully train future Air Force enlisted personnel. To support current accession rates, a total of up to 8 Recruit Housing & Training (RH&T) facilities are required to accomplish the Basic Military Training (BMT) mission at JBSA-Lackland. This project provides the fifth Airmen Training Complex (ATC) dormitory building in the RH&T Replacement program. This ATC facility will house a Basic Military Training Squadron including dormitory and administrative space. This project is designed to accommodate 1248 recruits; 48 recruits per flight, 24 flights per squadron with 4 reserve bed spaces per flight in order to address surges, gender separation and injured recruits. This project will also construct a new drill pad, running track, exercise areas, war skills training areas, and a pavilion for training weapons cleaning, storage, and latrines. Additionally, the project includes a retention pond and a detention pond, West Campus construction access road and fencing, power and associated ductbank to the dormitory, burial of aerial circuits at the site, added power capacity to the existing switching station, and communications switch and equipment relocation from the current facility, B9085, to include a new duct bank. Construction of the fifth BMT dormitory building starts the work on the second BMT Campus of the RH&T Replacement Plan. Companion FY16 project is Classrooms/Dining Facility 3, MPLS083737S3.

CURRENT SITUATION: RH&T facilities, the BMT program, and JBSA-Lackland form an initial and lasting impression of the Air Force to all new recruits. Existing 220,000 SF RH&T facilities, originally constructed in the 1960's and 1970's, were designed to provide housing, dining, classrooms, and other training space in one facility in order to develop teamwork, discipline, and espirit de corps among the recruits. These facilities are outdated and are inadequate to support current and planned accessions of Air Force Active Duty, Reserve, and Air National Guard personnel considering future force structure and strength. Due to deterioration, age, and exceeding their useful life, the RH&Ts require significant O&M capital to keep them operational -- an estimated annual average of $2.1M per RH&T ($16.8M for today's 8 RH&Ts) for the next 28 years according to the facility assessment study and detailed Economic Analysis. Available training hours, training quality, cohesiveness, and Esprit de corps are degraded as a direct result of decentralized BMT facilities and functions. A centralized, master planned, BMT campus does not exist. BMT has difficulty accommodating summer recruit surges while accomplishing maintenance, repair and renovation projects of the aging, inadequate, and substandard RH&Ts. Recruits do not have the minimum standard square footage during surge and overhaul periods forcing as many as 65 recruits per flight in facilities designed for 50 recruits per flight. This further stresses infrastructure systems and accelerates deterioration. The fire protection system is inadequate and obsolete. The mechanical, electrical, and lighting systems and interior finishes are at the end of their useful lives and require replacement.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AIR FORCE BASE SITE # 1 TEXAS	BMT RECRUIT DORMITORY 5

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
85976	721-311	2461/MPLS083737R5	71,000

IMPACT IF NOT PROVIDED: One of JBSA-Lackland's primary missions is to educate and train every Basic Military Training (BMT) enlisted recruit when entering military service in the U.S. Air Force. Without quality BMT programs and state-of-the-art, master-planned facilities, the Air Force will have difficulty recruiting, training, and retaining new recruits. BMT schedules will continue to be stretched to critical levels that risk mission loss. Facilities will continue to age and will require increasingly more capital to keep them operational. During surge periods, or when existing RH&Ts are being repaired, maintained, or overhauled, flight sizes will increase and recruits will continue to live in space with less than the minimum standard square footage per recruit. Significant capital must be spent to convert the existing RH&T facilities to current antiterrorism/force protection (AT/FP) criteria.

ADDITIONAL: This project meets the criteria/scope for recruit housing specified in Air Force Handbook 32-1084, "Standard Facility Requirements Handbook." The new OSD dormitory standard does not apply to this facility. It is excluded as a recruit dormitory. An economic analysis has been completed and determines that new construction is the best option to meet the program requirements. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development and construction of the project and construction of the project in accordance with UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (210) 671-2977. BMT Recruit Dormitory: 21,121 SM = 225,995 SF, MTI Admin: 1,261 SM = 13,573 SF, Training/Formation: 3,283 SM = 35,337 SF, Weapons Cleaning: 400 SM = 4280 SF.

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 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
JOINT BASE SAN ANTONIO - LACKLAND LACKLAND AIR FORCE BASE SITE # 1 TEXAS	BMT RECRUIT DORMITORY 5

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
85976	721-311	2461/MPLS083737R5	71,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	21-MAY-14
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2015	15%
* (d) Date 35% Designed	31-MAR-15
(e) Date Design Complete	30-SEP-15
(f) 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 -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	1,000
(b) All Other Design Costs	500
(c) Total	1,500
(d) Contract	1,250
(e) In-house	250
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	18 MAR

* 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
WALL LOCKERS AND FURNISHINGS	3400	2017	2,560
ADPE	3400	2017	190

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST
HILL AIR FORCE BASE UTAH	AIR FORCE MATERIEL COMMAND	COST INDEX 1.01

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	372	1,216	10,250				267	2773	621	15,499
END FY 2019	361	1,211	9,940				255	2774	615	15,156

7. INVENTORY DATA ($000)	
a. Total Acreage: 6,946	
b. Inventory Total as of : (30 Sep 14)	4,322,858
c. Authorization Not Yet in Inventory:	51,083
d. Authorization Requested in this Program: (FY2016)	38,400
e. Planned in Next Four Year Program:	0
f. Remaining Deficiency:	361,500
g. Grand Total:	4,773,841

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
171-212	F-35A Flight Simulator Addition, Phase 2	1,020 SM	5,900	Design/Build	
211-177	F-35A Hangar 40/42 Addition and AMU	5,741 SM	21,000	Design/Build	
422-264	Hayman Igloos	9 EA	11,500	Design/Build	
		TOTAL	38,400		

9a. Future Projects: Typical Planned In Next Four Years:		
NONE	TOTAL	0

9b. Real Property Maintenance Backlog This Installation: ($M)	505.0

10. Mission or Major Functions: Hill Air Force Base is home to many operational and support missions with Ogden Air Logistics Center (OO-ALC) serving as host organization. The center provides worldwide engineering and logistics management for the F-16 Fighting Falcon, A-10 Thunderbolt II and Minuteman III intercontinental ballistic missile. The base performs depot maintenance for F-16, C-130, and F-22 aircraft.

11. Outstanding pollution and Safety (OSHA) Deficiencies:	
a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH	F-35A FLIGHT SIMULATOR ADDITION, PHASE 2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27142	171-212	2349/KRSM153001	5,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				4,389
SIMULATOR FACILITY ADDITION	SM	1,020	4,219	(4,303)
SUSTAINABILITY AND ENERGY MEASURES	LS			(86)
SUPPORTING FACILITIES				761
UTILITIES	LS			(148)
SITE IMPROVEMENTS	LS			(63)
PAVEMENTS	LS			(230)
COMMUNICATION SUPPORT	LS			(120)
RELOCATE UTILITIES	LS			(200)
SUBTOTAL				5,150
CONTINGENCY (5.0%)				258
TOTAL CONTRACT COST				5,408
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				308
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				206
TOTAL REQUEST				5,922
TOTAL REQUEST (ROUNDED)				5,900
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				71

10. Description of Proposed Construction: Construct addition to Bldg 118 for two F-35A flight simulators. Project includes reinforced concrete foundation and floor slab, structural steel frame, fire detection/suppression, special security enhancements, utilities, pavements, site improvements, landscaping, communication support, relocation of utilities in the way of construction, and all other necessary work as required. Facilities will be designed as permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 26 Tons

11. Requirement: 2376 SM Adequate: 1356 SM Substandard: 0 SM

PROJECT: Construct F-35A Flight Simulator Addition, Phase 2. (New Mission)

REQUIREMENT: Provide adequately sized and configured F-35A flight simulation training facility by adding two high-bay (35 feet) simulator training rooms to Bldg 118. This is the second phase of a two-phase effort to provide the 388 FW with a total of six F-35A simulator training rooms. The first two simulators will replace the F-16 simulators in Bldg 118. A FY13 MILCON project provides the next two simulator bays; they must be ready for training in Nov 2016. This project provides the final two simulator bays that must be ready for training in Jun 2018. Delivery of aircraft begins in FY15/4Q. Project must include a raised computer floor in

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH	F-35A FLIGHT SIMULATOR ADDITION, PHASE 2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27142	171-212	2349/KRSM153001	5,900

each simulator room and all mechanical and electrical services and disc storage requirements. Simulator training facility must comply with security requirements unique to the F-35A. Provide an HVAC system that is able to maintain a constant temperature environment for sensitive computer equipment. Provide intrusion detection and fire detection/suppression systems as per F-35A simulator training requirements.

CURRENT SITUATION: There is inadequate space available on Hill AFB to accommodate six flight simulators required for the F-35 beddown. This unique function requires specialized space and security. Building 118 currently houses two flight simulator bays for assigned F-16 aircraft. When the F-16 aircraft depart, these two bays will be used for F-35 simulators. A FY13 MILCON project, KRSM113028, provides an addition to the facility for another two bays. This project constructs an addition for the final two simulator bays and offices to support the remaining operational squadrons upon aircraft arrived.

IMPACT IF NOT PROVIDED: The 388 FW will not be able to provide full F-35A simulation training capabilities to assigned aircrews. In the interim, aircrews would have to travel to other sites to perform simulation training. Without aircrew certification, pilots would not be capable of performing the assigned wing operational mission.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements" and the F-35A Facility Requirements Plan. The 2 Flight Simulators that this project will house were ordered in Aug 2014 using expiring FY 12 3010 funds. A preliminary analysis of reasonable alternatives to accomplish this project (status quo, renovation, new construction) was done. It indicates there is only the add/alter option meets operational requirements. Therefore, a certificate of exception has been prepared. 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, dated 1 March 2013. Base Civil Engineer: (801) 777-7505; (Flight Simulator Addition: 1,020 SM = 10,975 SF)

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 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH	F-35A FLIGHT SIMULATOR ADDITION, PHASE 2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	171-212	2349/KRSM153001	5,900

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) All Other Design Costs	236
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	17 SEP
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3400	17	53
FURNISHINGS AND EQUIPMENT	3400	17	18

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH	F-35A HANGAR 40/42 ADAL AND AMU

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27142	211-177	2349/KRSM103013	21,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				14,151
HANGARS 40/42 ADDITION (211-177)	SM	990	3,755	(3,717)
HANGARS 40/42 ALTERATIONS (211-177)	SM	2,892	1,994	(5,767)
AIRCRAFT MAINTENANCE UNIT (211-154)	SM	1,859	2,367	(4,401)
SUSTAINABILITY AND ENERGY MEASURES	LS			(266)
SUPPORTING FACILITIES				3,998
UTILITIES	LS			(453)
PAVEMENTS	LS			(1,172)
SITE IMPROVEMENTS	LS			(304)
COMMUNICATIONS SUPPORT	LS			(585)
DEMOLITION	SM	1,700	333	(566)
ASBESTOS/LEAD PAINT ABATEMENT	LS			(248)
FIRE PROTECTION STORAGE TANKS/PUMPS	LS			(670)
SUBTOTAL				18,149
CONTINGENCY (5.0%)				907
TOTAL CONTRACT COST				19,057
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				1,086
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				726
TOTAL REQUEST				20,869
TOTAL REQUEST (ROUNDED)				21,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				3,074

10. Description of Proposed Construction: Hangar additions include reinforced concrete foundations, floor slabs, structural steel frame, back-up power for new hangar doors, and fire detection/suppression system with storage tanks/pumps. Hangar alterations include asbestos/lead-base paint abatement, structural upgrade for seismic/wind/snow loads, HVAC upgrades, roof modifications, fire detection/suppression system upgrades, a 5-ton bridge crane for each hangar, fall protection, bird netting, one power panel for each of the three aircraft that will occupy each hangar, and new lightning protection systems throughout. Aircraft Maintenance Unit is reinforced concrete floor, steel structural frame, standing seam metal roof, utilities, fire detection/suppression, pavements, site improvements, communication support, and all other work necessary. Project includes perimeter pavements around and up to hangars and parking. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Building Requirements. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 150 Tons

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH	F-35A HANGAR 40/42 ADAL AND AMU

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27142	211-177	2349/KRSM103013	21,000

11. Requirement: 5741 SM Adequate: 0 SM Substandard: 2892 SM

PROJECT: Construct F-35A Hangar 40/42 ADAL and AMU. (New Mission)

REQUIREMENT: Provide adequately sized and configured fighter aircraft repair hangars and AMU for squadron of twenty-four F-35A fighter aircraft. Hangar 40/42 additions extend the facility approximately thirty feet to the north to accommodate installation of new hangar doors to meet unique maintenance requirements of the F-35A weapon system. Alterations to the existing hangar includes upgrading the existing utility systems, roof modifications, adding 3 bridge cranes, and adding power panels. The AMU is required to house administrative and maintenance support activities to include space for the Autonomic Logistics Information System (ALIS) maintenance brief/debrief areas. Project must ensure necessary security upgrades are in place before aircraft arrival; security accreditation and installation of computer systems requires approximately 6 months after construction. The third operational squadron is scheduled to begin arriving in FY18/4.

CURRENT SITUATION: Existing maintenance hangars do not provide adequate space for the unique maintenance requirements of the F-35A aircraft. Hangars 40 and 42 lack the space necessary for maintenance personnel to conduct engine removal/replacement functions, as well as, additional maintenance tasks specified in the Weapon System Facility Requirements Plan. The existing administrative portion of hangars 40 and 42 are not suitable in terms of condition, nor functionally compatible for AMU administrative and maintenance support tasks.

IMPACT IF NOT PROVIDED: The 388th FW will not be able to receive delivery of the F-35A in any significant numbers. Without the hangar additions, effective engine maintenance for the F-35A cannot be performed, proper security measures cannot be maintained, and support equipment will have to be stored outdoors subject to harsh weather conditions. F-35A AMU support functions cannot be performed adequately and efficiently.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements" and the F-35A Facility Requirements Plan. A preliminary analysis of reasonable alternatives for accomplishing this project (status quo, new construction, renovation) was done. It indicates that adding to and altering bldgs 40 and 42, and constructing a new AMU, is the only option that will meet operational requirements. Therefore, a waiver to exception has been prepared. 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, dated 1 March 2013. Base Civil Engineer: (801) 777-7505; (Hangar Additions: 990 SM = 10,652 SF; Hangar Alterations: 2,893 SM = 31,117 SF; AMU: 1,859 SM = 20,002 SF)

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

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH	F-35A HANGAR 40/42 ADAL AND AMU

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27142	211-177	2349/KRSM103013	21,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:

(a) Standard or Definitive Design - NO

(b) Where Design Was Most Recently Used -

(3) All Other Design Costs 840

(4) Construction Contract Award 16 FEB

(5) Construction Start 16 MAR

(6) Construction Completion 18 MAR

(7) Energy Study/Life-Cycle analysis was/will be performed YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNISHINGS	3400	17	458
COMMUNICATION EQUIPMENT	3080	17	686
SECURITY SYSTEMS	3080	17	350
5-TON BRIDGE CRANE	3080	17	1,080
POWER PANELS	3080	17	500

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH	HAYMAN IGLOOS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27248	422-264	2349/KRSM133002	11,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				5,649
HAYMAN IGLOOS	EA	9	615,480	(5,539)
SUSTAINABILITY AND ENERGY MEASURES	LS			(110)
SUPPORTING FACILITIES				4,370
UTILITIES	LS			(973)
PAVEMENTS	LS			(1,601)
SITE IMPROVEMENTS	LS			(1,363)
COMMUNICATION SUPPORT	LS			(433)
SUBTOTAL				10,019
CONTINGENCY (5.0%)				501
TOTAL CONTRACT COST				10,520
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				600
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				401
TOTAL REQUEST				11,521
TOTAL REQUEST (ROUNDED)				11,500

10. Description of Proposed Construction: Construct nine earth covered reinforced concrete Modular Storage Magazines (MSMs) or "igloos" measuring 26' x 80' capable of storing 150,000 pounds of class 1.1 munitions each. New igloos are to be constructed in the MAMS 1 area of Hill AFB. The facility will be designed as permanent construction in accordance with DOD UFC 1-200-01. Work includes access road, reinforced concrete aprons, catenary lightning protection, utilities, site improvements, communications support, and all other necessary support. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria 4-010-01.

11. Requirement: 10 EA Adequate: 1 EA Substandard: 0 EA

PROJECT: Construct 9 Hayman type igloos. (Current Mission)

REQUIREMENT: Nine properly sized and configured munitions storage igloos measuring 26' x 80' each are required to support current real world deployments and training exercises. Facilities will be used for deep storage of several items including: non-palletized munitions in containers, test equipment, and empty containers. Requirements include a full length reinforced concrete apron spanning the front of each proposed new igloo, for heavy equipment loading/maneuvering and to connect to required new access roads. Each new igloo will require a lightning protection system, two levels of Intrusion Detection Equipment (IDE), internal and external lighting, external phone line/Vindicator for alarm annunciation, and a high security door locking mechanism. Igloos are to be constructed in a location that ensures proper drainage with no steep roadway/apron grades.

CURRENT SITUATION: There are insufficient igloos at Hill AFB to support current

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH	HAYMAN IGLOOS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27248	422-264	2349/KRSM133002	11,500

and future missions. All existing igloos capable of storing Class 1.1 munitions and which can physically accommodate the new large containerized precision guided munitions are being used to maximum capacity to support other missions.

IMPACT IF NOT PROVIDED: Failure to provide adequate munitions storage facilities will result in costly production and fielding delays. Additionally, specialized assets would not be immediately available to the warfighter if these facilities are not provided.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084 "Facility Requirements." An economic analysis of reasonable options to this project was conducted and it was determined that the only option to meet operational requirements is to construct 9 igloos in the MAMS 1 area. This project shall comply with 6055.09-M, Volume 2, "DoD Ammunition and Explosive Safety Standards Explosive safety Construction Criteria. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of this project in accordance DOD UFC 1-200-02. Base Civil Engineer: (801) 777-7505.

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

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HILL AIR FORCE BASE HILL AFB SITE # 1 UTAH	HAYMAN IGLOOS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27248	422-264	2349/KRSM133002	11,500

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) All Other Design Costs	460
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 APR
(6) Construction Completion	17 OCT
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST
FE WARREN AIR FORCE BASE WYOMING	AIR FORCE GLOBAL STRIKE COMMAND	COST INDEX 1.00

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	371	2157	453	0	0	0	415	2218	725	6,339
END FY 2019	359	2122	454	0	0	0	403	2178	726	6,242

7. INVENTORY DATA ($000)	
a. Total Acreage: 6,833	
b. Inventory Total as of : (30 Sep 14)	352,855
c. Authorization Not Yet in Inventory:	0
d. Authorization Requested in this Program: (FY 2016)	95,000
e. Planned in Next Four Years Program:	52,750
f. Remaining Deficiency:	78,369
g. Grand Total:	578,974

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
215-582	Weapon Storage Facility	8,491 SM	95,000	Aug-13	Sep-15
		TOTAL	95,000		

9a. Future Projects: Typical Planned in Next Four Years:

141-185	Consolidated Sq Ops/TRF Facility	7,699 SM	24,200
212-216	Missile Roll Transfer Facility	802 SM	5,050
721-312	Dormitory	5,544 SM	23,500
		TOTAL	52,750

9b. Real Property Maintenance Backlog This Installation ($M)	64.1

10. Mission or Major Functions: F. E. Warren Air Force Base is the oldest continuously active militaryinstallation within the Air Force. It's home to the 90th Space Wing and Headquarters, 20th Air Force, of Air Force Space Command. 90 SW operates 150 Minuteman III intercontinental ballistic missiles on full alert and maintains the missile fields across a 12,600-square-mile area in three states (Wyoming, Nebraska, and Colorado).

11. Outstanding pollution and Safety (OSHA) Deficiencies:	
a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
FRANCIS E WARREN AIR FORCE BASE F E WARREN AFB SITE # 1 WYOMING	WEAPON STORAGE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	215-582	1833/GHLN153001	95,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				68,438
WEAPON STORAGE AND MAINTENANCE FACILITY	SM	8,491	7,902	(67,096)
SUSTAINABILITY AND ENERGY MEASURES	LS			(1,342)
SUPPORTING FACILITIES				17,091
UTILITIES	LS			(3,250)
PRIVATIZED UTILITY CONNECTION FEE	LS			(1,750)
PAVEMENTS	LS			(1,000)
SITE IMPROVEMENTS	LS			(6,000)
COMMUNICATIONS SUPPORT	LS			(3,000)
DEMOLITION	SM	10,454	200	(2,091)
SUBTOTAL				85,529
CONTINGENCY (5.0%)				4,276
TOTAL CONTRACT COST				89,805
SUPERVISION, INSPECTION AND OVERHEAD (5.7%)				5,119
TOTAL REQUEST				94,924
TOTAL REQUEST (ROUNDED)				95,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(22,300.0)

10. Description of Proposed Construction: Project will construct a Weapon Storage Facility (WSF) combining storage and maintenance functions into a single facility. Facility will be designed as permanent construction in accordance with DoD Unified Facilities Criteria - UFC 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. All construction will meet requirements for essential facility system nuclear design certification. This is the proto type for future WSFs.

Air Conditioning: 130 Tons

11. Requirement: 8491 SM Adequate: 0 SM Substandard: 10454 SM

PROJECT: Construct a Weapon Storage Facility.

REQUIREMENT: A reinforced concrete earth covered facility that puts all nuclear maintenance and storage operations in a single facility to minimize the effects of weather in operations, eliminate security deviations, recapitalize aging infrastructure and achieve economies of scale throughout the mission.

CURRENT SITUATION: There are 22 facilities in the current weapons storage area with a combined gross square footage of 10,454 SM. Building 1152, the primary storage and maintenance facility, is an existing 2,487 SM facility placed into service in 1960 that is primarily utilized by 90 MUNS for maintenance and inspection (M&I). Aging infrastructure needs massive overhaul to meet current standards and requirements. The various missions related to the weapons are scattered which leads to inefficiencies in security and operations, making the

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
FRANCIS E WARREN AIR FORCE BASE F E WARREN AFB SITE # 1 WYOMING	WEAPON STORAGE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	215-582	1833/GHLN153001	95,000

mission more vulnerable. The current facilities do not meet several of the security requirements mandated in DoD security directives. The aging infrastructure requires 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. O&M sustainment costs are high and deficiencies result in mission impact. Transverse cracking in foundations and structural elements are evidence of an increased risk of structural failure. There is a lack of space for munitions maintenance, admin, safety/security screening equipment, and general storage. Identified requirements to alleviate current conditions in the weapons storage area include 37 repair projects costing in excess of $64M over the next 6-plus years. Current work-arounds do not address multiple security deviations nor can they realistically address all of the known requirements.

IMPACT IF NOT PROVIDED: The munitions operations will remain at risk due to inefficiencies and failing infrastructure. Mitigations for DoD security requirements for operations in a weapons storage area will continue driving additional inefficiencies and risks. Mission requirements will not be met without significant workarounds due to the condition of the infrastructure and the inability of the current facilities systems to meet current maintenance requirements. Inefficiencies impacting production will continue even as manpower is being reduced further exacerbating mission impacts.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements" and 6055.09-M, Volume 2, "DoD Ammunition and Explosives Safety Standards: Explosives Safety Construction Criteria". 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, i.e., new construction. Therefore, no economic analysis was needed or performed. 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, dated 1 March 2013. CatCode 215-582 (8,491 SM = 91,397 SF). Demolition 10,454 SM = 112,526 SF. Base Civil Engineer: 307-773-3600.

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

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
FRANCIS E WARREN AIR FORCE BASE F E WARREN AFB SITE # 1 WYOMING	WEAPON STORAGE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	215-582	1833/GHLN153001	95,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	05-OCT-12
(b) Parametric Cost Estimates used to develop costs	
(c) Percent Complete as of 01 JAN 2015	60%
(d) Date 35% Designed	21-MAY-14
(e) Date Design Complete	15-SEP-15
(f) Energy Study/Life-Cycle analysis was/will be 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):	($000)
(a) Production of Plans and Specifications	5,700
(b) All Other Design Costs	2,850
(c) Total	8,550
(d) Contract	7,125
(e) In-house	1,425
(4) Construction Contract Award	16 JAN
(5) Construction Start	16 JAN
(6) Construction Completion	18 MAR

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

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
SECURITY SYSTEMS	3080	16	20,000
COMMUNICATIONS EQUIPMENT	3400	16	1,500
FURNISHINGS	3400	16	800

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

INSTALLATION AND LOCATION THULE AIR BASE GREENLAND	COMMAND: AIR FORCE SPACE COMMAND	5. AREA CONST COST INDEX 3.20

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	21	116	495	0	0	0	1	1	77	711
END FY 2019	21	119	490	0	0	0	1	1	77	709

7. INVENTORY DATA ($000)	
a. Total Acreage: 233,034	
b. Inventory Total as of : (30 Sep 14)	2,729,328
c. Authorization Not Yet in Inventory:	90,757
d. Authorization Requested in this Program: (FY2016)	41,965
e. Planned in Next Four Year Program:	0
f. Remaining Deficiency:	0
g. Grand Total:	2,862,050

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
219-944	Thule Consolidation, Phase 1	4,398 SM	41,965	Mar 14	Sep 15
		TOTAL	41,965		

9a. Future Projects: Typical Planned Next Four Years:

NONE	TOTAL	0

9b. Real Property Maintenance Backlog This Installation: ($M)	25.8

10. Mission or Major Functions: The base hosts a Space Warning Squadron that is designed to detect and track Intercontinental Ballistic Missiles (ICBMs) launched against North America; hosts a Space Operations Squadron--part of the global satellite control network; operates a 10,000 foot runway supporting 2,600 U.S. and international flights per year; and is home to the northernmost deep water port in the world.

11. Outstanding pollution and Safety (OSHA) Deficiencies:	
a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
THULE AIR BASE THULE AIR BASE SITE # 1 GREENLAND	THULE CONSOLIDATION, PHASE 1

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
31476	219-944	3339/WWCX103027	41,965

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				19,315
CE ADMINISTRATION (610-127)	SM	585	4,593	(2,687)
SUPPLY ADMINISTRATION (610-122)	SM	265	4,593	(1,217)
CE SHOPS (219-944)	SM	1,943	4,350	(8,452)
BASE SUPPLY WAREHOUSE (442-758)	SM	1,605	4,100	(6,581)
SUSTAINABILITY AND ENERGY MEASURES	LS			(378)
SUPPORTING FACILITIES				18,246
SITE PREPARATION/ARCTIC FOUNDATIONS	LS			(8,035)
UTILITIES	LS			(802)
COMMUNICATIONS	LS			(350)
DEMOLITION	SM	14,129	612	(8,647)
PAVINGS, WALKS, CURB, ETC.	LS			(412)
SUBTOTAL				37,561
CONTINGENCY (5.0%)				1,878
TOTAL CONTRACT COST				39,439
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				2,564
TOTAL REQUEST				42,002
TOTAL REQUEST (ROUNDED)				41,965

10. Description of Proposed Construction: Construct a facility utilizing Arctic and Subarctic design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. Facility will be designed as permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01. Includes all utilities, site improvements, communications and all other supporting facilities. Project demolishes 5 buildings; 551, 553, 571, 629, and 1091 totaling 14,129 SM. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01.

Air Conditioning: 0 Tons

11. Requirement: 4398 SM Adequate: 0 SM Substandard: 14129 SM

PROJECT: Construct a Consolidated Civil Engineering (CE) Shops and Supply Complex. (Current Mission)

REQUIREMENT: Consolidation of base functions are required to support the SECDEF-directed efficiencies initiative. IAW the Thule Base Consolidation Plan, this is one of two consolidation/demolition MILCONs required to reduce the overall base footprint, thus reducing energy costs and manpower requirements by a significant amount. Project demolishes five buildings and the total consolidation frees up other buildings to be reused for low-heat storage and a Sewage Treatment Plant.

CURRENT SITUATION: At present, CE shops are scattered all over the Main Base Area

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION, SITE AND LOCATION THULE AIR BASE THULE AIR BASE SITE # 1 GREENLAND	4. PROJECT TITLE THULE CONSOLIDATION, PHASE 1	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
31476	219-944	3339/WWCX103027	41,965

and require a large utility distribution system and infrastructure. Most buildings lack fire suppression and contain asbestos. Associated operations, maintenance, and energy costs for these facilities and infrastructure are very high. Fuel and Base Operations Support (BOS) contract costs are on track to exceed $100 million over the FYDP. Existing buildings are located outside of the future Base Consolidation "Thule Triangle" Area.

IMPACT IF NOT PROVIDED: Thule Air Base, an installation uniquely suited geographically to support AFSPC missions of satellite command and control and the Ballistic Missile Early Warning System, will continue to consume Air Force funding and resources at an increasing rate to pay for fuel and BOS while maintaining status quo of inadequate, inefficient facilities and failing to comply with governing rules and regulations for fire safety, energy conservation and standards for working environment. The costs of operation, maintenance and repairs will continue to increase just to keep the 1950s-vintage inefficient facilities. This project demolishes over 14,000 SM and consolidates CE and Supply functions into a greatly reduced footprint which will bring down energy and BOS costs considerably.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements." An economic analysis of reasonable options for accomplishing this project (status quo, revitalization, renovation, upgrade/removal, new construction) was done. Based on the present value and benefits of the respective alternatives, new construction was found to be the most cost effective over the life of the project. Sustainable principles to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project IAW UFC 1-200-02 dated 1 March 2013. 21 SW Base Civil Engineer: (719) 556-7631. CE Administration: 585 SM = 6,295 SF; CE Shops: 1.943 SM = 20,907 SF; Supply Administration: 265 SM = 2,852 SF; Base Supply Warehouse: 1,605 SM = 17,270 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: DANISH KRONER 5.5515

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 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
THULE AIR BASE THULE AIR BASE SITE # 1 GREENLAND	THULE CONSOLIDATION, PHASE 1

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
31476	219-944	3339/WWCX103027	41,965

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	15-MAR-14
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2015	15%
* (d) Date 35% Designed	16-DEC-14
(e) Date Design Complete	28-SEP-15
(f) 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 -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	**($000)**
(a) Production of Plans and Specifications	2,520
(b) All Other Design Costs	1,260
(c) Total	3,780
(d) Contract	3,195
(e) In-house	585
(4) Construction Contract Award	**16 MAR**
(5) Construction Start	**16 MAY**
(6) Construction Completion	**18 JUL**

* 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:
N/A

1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST
JRM - ANDERSEN AIR FORCE BASE	PACIFIC AIR FORCES	COST INDEX
GUAM		2.32

6. Personnel	PERMANENT			STUDENTS			SUPPORTED			
Strength (AF Only)	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	158	1,595	376	0	0	0	0	0	0	2,129
END FY 2019	158	1,643	383	0	0	0	0	0	0	2,184

7. INVENTORY DATA ($000)

a. Total Acreage: 20,270	
b. Inventory Total as of : (30 Sep 14)	6,145,097
c. Authorization Not Yet in Inventory:	86,992
d. Authorization Requested in this Program:	85,200
e. Planned in Next Four Years Program:	157,700
f. Remaining Deficiency:	775,459
g. Grand Total:	7,250,448

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
141-461	APR - Installation Control Center	1,143	SM	22,200	May 14	Sep 15
211-159	APR - LO/Corrosion Control/Comp Rpr	2,289	SM	34,400	Jul 11	Sep 12
442-758	APR - Dispersed Maint Spares & SE Storage Fa	5,743	SM	19,000	Design/Build	
832-266	APR - South Ramp Utilities	4,200	SM	7,100	May 14	Sep 15
851-147	PRTC Roads	29,619	SM	2,500	Design/Build	
		TOTAL		85,200		

9a. FUTURE PROJECTS: Typical Planned Next Four Years:

131-116	APR - COMMUNICATIONS FACILITY		10,700
832-266	APR - North Ramp Utilities		147,000
		TOTAL	157,700

9b. Real Property Maintenance Backlog This Installation: ($M) 129

10. Mission or Major Functions: Andersen AFB is home to the 36th Wing (36 WG) with the primary mission to employ, deploy, integrate, and enable air and space forces from the most forward US sovereign air force base in the Pacific. Provides continuous bomber presence 365 days per year to support US Pacific Command. Provides a Contingency Response Group with a "911 force" capability to quickly deploy to any hot spot in the region to quickly open and operate an air base for both combat and humanitarian assistance missions. Hosts AMC air mobility squadron and Navy helicopter sea combat squadron.

11. Outstanding pollution and Safety (OSHA Deficiencies):

a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
JRM - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM	APR INSTALLATION CONTROL CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27256	141-461	1366/AJJY150600	22,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				16,508
INSTALLATION CONTROL CENTER	SM	1,142	14,098	(16,100)
SUSTAINMENT AND ENERGY MEASURES	LS			(408)
SUPPORTING FACILITIES				3,377
ELECTRICAL	LS			(259)
WATER, SEWER GAS	LS			(99)
PAVEMENTS	LS			(135)
SITE IMPROVEMENTS	LS			(747)
COMMUNICATIONS	LS			(1,297)
ARCHEOLOGICAL MONITORING	LS			(75)
EXPLOSIVE SAFETY COMPLIANCE	LS			(616)
ENVIRONMENTAL REMEDIATION	LS			(150)
SUBTOTAL				19,886
CONTINGENCY (5.0%)				994
TOTAL CONTRACT COST				20,880
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				1,295
TOTAL REQUEST				22,174
TOTAL REQUEST (ROUNDED)				22,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				1,700.0

10. Description of Proposed Construction: Constructs a hardened Wing Installation Control Center (ICC) comprised of the Command Post, Crisis Action Team (CAT) and the Emergency Operations Center (EOC) using economical design and construction methods to accommodate the mission of this facility. The facility will comply with applicable DoD, Air Force and base design standards as applicable. In addition, local materials and construction techniques shall be used when cost effective. The facility is designated a Risk Category IV facility and must be able to withstand 338 kilometer-per-hour winds, and seismic criteria for Site Class B from Unified Facilities Criteria (UFC) 3-301-01 dated 1 June 2013, UFC 3-310-04, and IBC 2012/ASCE 7-10. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

Air Conditioning: 37 Tons

11. Requirement: 1142 SM Adequate: 0 SM Substandard: 485 SM

PROJECT: Construct an Air Power Resiliency (APR) Installation Control Center (New Mission)

REQUIREMENT: A resilient Installation Control Center is crucial to sustained operations at Andersen Air Force Base. Due to Guam's remote location and its criticality to regional security, an Air Force/Navy Joint Warfighter group

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION, SITE AND LOCATION JRM - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM	4. PROJECT TITLE APR INSTALLATION CONTROL CENTER	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27256	141-461	1366/AJJY150600	22,200

determined that hardened structures to protect the Installation Control Center were necessary for resilience of the IC2 system.Hardening this key command and control center is essential to counter identified threats and prevent loss of life as well as critical resources and functions inside this facility.

CURRENT SITUATION: The Installation Control Center is divided between two locations, with the Command Post and Crisis Action Team in Building 23028, and the Emergency Operations Center in B-18001. Neither B-23028 nor B-18001 are hardened structures, operations at either facility could be disrupted in the event of a contingency.

IMPACT IF NOT PROVIDED: Strikes from new threat weaponry on critical and specific targets on Andersen will interrupt sortie generation capability. Hardening this key command and control center is essential to counter identified threats and prevent loss of life as well as critical resources and functions inside this facility. Without hardening, Andersen's IC2 system is more vulnerable to temporary loss and mission failure. This project will provide the Emergency Operations Center, Crisis Action Team, and Command Post with protection and resiliency in case of natural or manmade contingency operations.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements" ; Unified Facilities Criteria 4-141-04, "Emergency Operations Center Planning And Design"; and AFI 10-207, Operations: Command Posts, as applicable. Because constructing a hardened structure to protect the Installation Control Center is the only feasible way to meet this requirement, an economic analysis was not performed. A certificate of exception has been approved. The costs for the hardened structure in this project are higher than the costs for an unhardened facility. 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, dated 1 March 2013. Base Civil Engineer: (671) 366-7101. Installation Control Center: 1,142 SM = 12,292 SF.

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 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
JRM - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM	APR INSTALLATION CONTROL CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27256	141-461	1366/AJJY150600	22,200

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	21-MAY-14
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2015	15%
* (d) Date 35% Designed	31-MAR-15
(e) Date Design Complete	30-SEP-15
(f) 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 -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	1,332
(b) All Other Design Costs	666
(c) Total	1,998
(d) Contract	1,665
(e) In-house	333
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	18 MAR

* 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNISHINGS	3400	2017	650
COMM EQUIPMENT	3080	2017	300
OTHER EQUIPMENT	3400	2017	750

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
JRM ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM	PAR LOW OBSERVABLE/CORROSION CONTROL/COMPOSITE REPAIR SHOP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-159	1366/AJJY133028	AUTH: 0 APPN: 34,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				22,626
L.O./CORROSION CONTROL/COMPOSITE REPAIR FAC	SM	2,289	9,689	(22,178)
SUSTAINABILITY AND ENERGY MEASURES	LS			(448)
SUPPORTING FACILITIES				8,219
UTILITIES	LS			(2,769)
SITE IMPROVEMENTS	LS			(1,886)
PAVEMENTS	LS			(627)
COMMUNICATIONS	LS			(33)
INJECTION WELLS	LS			(215)
EXPLOSIVE SAFETY SUBMISSION COMPLIANCE	LS			(890)
CARGO DEPLOYMENT FACILITY RENOVATION	SM	1,216	1,115	(1,356)
ENVIRONMENTAL REMEDIATION	LS			(150)
ARCHEOLOGICAL MONITORING	LS			(87)
DEMOLITION	SM	1,337	154	(206)
SUBTOTAL				30,845
CONTINGENCY (5.0%)				1,542
TOTAL CONTRACT COST				32,387
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				2,008
TOTAL REQUEST				34,395
TOTAL REQUEST (ROUNDED)				34,400
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(250.0)

10. Description of Proposed Construction: Construct the facility utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective The project includes demolition of three buildings (1,337 SM). The fire suppression system will consist of fire sprinkler and foam systems, foam pump system, and fire foam holding tanks. The facility must also be able to withstand wind loads and seismic effects as prescribed in applicable codes and design guides. The project will include electrical, mechanical, water, communication, fire suppression/detection, air conditioning system with humidity environmental controls, utilities, pavements, parking, an oil water separator, associated site improvements, archeological monitoring and all necessary supporting facilities for a complete and usable facility. This project includes the renovation of an existing building to relocate the Cargo Deployment Facility. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
JRM ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM	PAR LOW OBSERVABLE/CORROSION CONTROL/COMPOSITE REPAIR SHOP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-159	1366/AJJY133028	AUTH: 0 APPN: 34,400

Air Conditioning: 245 Tons

11. Requirement: 2289 SM Adequate: SM Substandard: 527 SM

PROJECT: Construct a low observable/ corrosion control/ composite repair shop. (New Mission)

REQUIREMENT: For this Pacific Airpower Resiliency (PAR) project, an adequately sized and configured shop is required to provide environmentally controlled areas for on-aircraft Low Observable restoration and repair in support of the PAR mission. The shop is required to support a Continuous Bomber Presence (CBP), Tanker Task Force (TTF), Global Hawk, and the Theater Security Packages (TSP). Fighter aircraft require environmentally controlled areas for on-aircraft LO restoration and repair. A single bay and workshop support areas for preparation and cure are required to support LO maintenance. The facility is required to provide an environmentally controlled area for corrosion/ composite treating, corrosion/ composite repairing, paint stripping, and repainting of aircraft parts. The facility is required to provide functional area for a corrosion control shop to include preparation and drying areas, abrasive blasting rooms, paint booths for mixing and or applying paint, tool storage, lockers, and administrative support functions.

CURRENT SITUATION: Corrosion control and composite repair capability is currently limited to one small facility. Andersen facilities can support only minor protective coating repair capability for a small contingent of aircraft with a minimal flying schedule. Andersen does not have the extensive maintenance infrastructure required to support a home station Global Hawk capability along with a CBP, TTF, TSP, and aerospace ground equipment (AGE). Repair of aircraft components along scheduled isochronal and corrosion inspections/maintenance necessitates new facilities for corrosion control. The existing Cargo Deployment Facility (CDF) is in the footprint of the new facility, and will be relocated to an existing facility, which will be renovated to accommodate the CDF.

IMPACT IF NOT PROVIDED: Without this facility, Andersen will be unable to provide adequate low observable, corrosion control, and composite repairs to support a Continuous Bomber Presence (CBP), Tanker Task Force (TTF), and the Theater Security Packages (TSP). Lack of this facility would significantly reduce readiness, and could result in degradation of operational capability, and may increase potential for a serious mishap.

ADDITIONAL: This project meets the criteria/ scope specified in Air Force Handbook 32-1084, Facility Requirements, F-22 Facilities Requirements Plan Revision W, 2008, and PACAF Logistics Facilities Planning Guide. This project was authorized in the 2015 National Defense Authorization Act; therefore this project only seeks the appropriation to fund this project. Preliminary analysis of reasonable options for satisfying this requirement indicated only one option will meet mission needs, new construction. Therefore, an economic analysis certificate of exemption has been completed. 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, dated 1 March 2013. Base Civil Engineer: (671) 366-7101. Low Observable/ Corrosion Control/ Composite Repair Shop:2,289 SM = 24,643

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
JRM ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM	PAR LOW OBSERVABLE/CORROSION CONTROL/COMPOSITE REPAIR SHOP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-159	1366/AJJY133028	AUTH: 0 APPN: 34,400

SF; Cargo Deployment Facility: 1,216 SM = 13,089 SF.

JOINT USE CERTIFICATION: This facility can be used by other components on "as available" basis; however, scope is based on AF requirements.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
JRM ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM	PAR LOW OBSERVABLE/CORROSION CONTROL/COMPOSITE REPAIR SHOP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	211-159	1366/AJJY133028	AUTH: 0 APPN: 34,400

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	11-JUL-11
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2015	100%
* (d) Date 35% Designed	30-MAR-12
(e) Date Design Complete	28-SEP-12
(f) 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 -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	2,064
(b) All Other Design Costs	1,032
(c) Total	3,096
(d) Contract	2,580
(e) In-house	516
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	18 MAR

* 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMMUNICATIONS EQUIPMENT	3400	2017	50
FURNISHINGS AND EQUIPMENT	3400	2017	200

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
JRM - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM	APR - DISPERSED MAINTENANCE SPARES AND SE STORAGE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	442-758	1366/AJJY163004	19,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				14,089
DISPERSED MAINT SPARES AND SE STORAGE FAC	SM	5,743	2,405	(13,813)
SUSTAINABILITY AND ENERGY MEASURES	LS			(276)
SUPPORTING FACILITIES				2,572
UTILITIES	LS			(83)
PAVEMENTS	LS			(308)
SITE IMPROVEMENTS	LS			(775)
DEMOLITION (HORIZONTAL PARKING AREA)	SM	10,200	45	(461)
COMMUNICATIONS	LS			(29)
ARCHAEOLOGICAL MONITORING	LS			(75)
EXPLOSIVE SAFETY SUBMISSION COMPLIANCE	LS			(691)
ENVIRONMENTAL REMEDIATION	LS			(150)
SUBTOTAL				16,661
CONTINGENCY (5.0%)				833
TOTAL CONTRACT COST				17,494
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				1,085
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				666
TOTAL REQUEST				19,245
TOTAL REQUEST (ROUNDED)				19,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				250

10. Description of Proposed Construction: Construct a contingency repair parts warehouse using economical design and construction methods to accommodate the mission of the installation. The facility should be compatible with applicable DoD, Air Force and base design standards as applicable. In addition, local materials and construction techniques shall be used when cost effective. The warehouse will be a steel-frame superstructure with precast concrete panels for the exterior skin. Roll-up doors will be provided on the sides and man doors will be provide at either end and at intervals on each side. The project will include electrical, mechanical, water, communication, air conditioning, pavements, demolition of existing pavement/utilities, and other associated site improvements, and all necessary supporting facilities for a complete and usable facility. The facility must 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 the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

Air Conditioning: 206 Tons

11. Requirement: 31875 SM Adequate: 12475 SM Substandard: 11294 SM

PROJECT: Asia Pacific Resiliency (APR) Dispersed Maintenance Spares and Support

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
JRM - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM	APR - DISPERSED MAINTENANCE SPARES AND SE STORAGE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	442-758	1366/AJJY163004	19,000

Equipment (SE) Storage Facility (New Mission)

REQUIREMENT: Resilient airfield pavements and fuel system are crucial to sustaining operations at Andersen Air Force Base. Tropical cyclones regularly affect Guam and pose a risk to these mission-critical assets. Due to Guam's remote location and its criticality to regional security, an Air Force/Navy Joint Warfighter group determined that prepositioning stocks of rapid runway repair material and fuels system repair parts was necessary for resiliency of the airfield and fuel system. Analysis of the storage space needed for these critical resiliency spaces indicates a warehouse with opposing roll up doors is necessary to meet the requirement.

CURRENT SITUATION: At Andersen, the existing war reserve materiel warehouses are at capacity. There are no other assets available to provide covered storage for pre-positioned repair parts and materiel.

IMPACT IF NOT PROVIDED: Without prepositioned stocks of repair parts and materiel, Andersen's airfield pavements and fuel system are more vulnerable to temporary loss and potential mission failure. This project will provide covered space in which to store the parts and materiel that would be used to repair the airfield and fuel system in case of natural or manmade contingency operations.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, "Facility Requirements" and AFI 25-101, War Reserve Materiel (WRM) Program Guidance and Procedures, as applicable. A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option (new construction) will meet mission needs; therefore, a complete economic analysis was not performed and a certificate of exception has been prepared. 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, dated 1 March 2013. Base Civil Engineer: 671-366-7101. Dispersed Maintenance Spares and SE Storage Facility: 5,743 SM = 61,817 SF.

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 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
JRM - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM	APR - DISPERSED MAINTENANCE SPARES AND SE STORAGE FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	442-758	1366/AJJY163004	19,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures	
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	
(3) All Other Design Costs	760
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	18 MAR
(7) Energy Study/Life-Cycle analysis was/will be performed	YES

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
WAREHOUSING	3400	2017	220
FURNISHINGS	3400	2017	15
COMPUTER EQUIPMENT	3400	2017	15

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
JRM - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM	APR SOUTH RAMP UTILITIES PHASE 2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	832-266	1366/AJJY143030	7,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				4,475
SANITARY SEWER (832-266)	M	3,200	890	(2,848)
ELECTRICAL (812-225)	M	1,000	1,443	(1,443)
SUSTAINABILITY AND ENERGY MEASURES	LS			(184)
SUPPORTING FACILITIES				1,899
PAVEMENTS	LS			(511)
SITE IMPROVEMENTS	LS			(94)
SITE DEMOLITION	SM	2,637	80	(210)
ARCHEOLOGICAL MONITORING	LS			(75)
ENVIRONMENTAL REMEDIATION	LS			(37)
EXPLOSIVE SAFETY SUBMISSION COMPLIANCE	LS			(972)
SUBTOTAL				6,374
CONTINGENCY (5.0%)				319
TOTAL CONTRACT COST				6,693
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				415
TOTAL REQUEST				7,108
TOTAL REQUEST (ROUNDED)				7,100

10. Description of Proposed Construction: This project constructs utilities and infrastructure using economical design and construction methods to accommodate the mission of the facility. Construction should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. Work includes installing a sanitary sewer system, upgrading pumps, motors, and controllers at sanitary sewer stations, and installing a sanitary sewer force main, SCADA system, and new underground electric distribution systems. Pavements will be cut/ demolished (approximately 2,637 SM) and rebuilt as needed. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

11. Requirement: 4200 M Adequate: 0 M Substandard: 0 M

PROJECT: Construct Asia Pacific Resiliency (APR) South Ramp Utilities Phase 2. (New Mission)

REQUIREMENT: For this APR project, adequate upgrades of utilities and infrastructure properly sized and configured are required to support both the South Ramp Tanker Task Force (TTF) buildup and the Main Base. To adequately support the planned facilities, it is a requirement to install a sanitary sewer system, upgrade pumps, motors, emergency generator power, and controllers at sanitary sewer stations, sanitary sewer force main, supervisory control and data acquisition

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION, SITE AND LOCATION JRM - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM	4. PROJECT TITLE APR SOUTH RAMP UTILITIES PHASE 2	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	832-266	1366/AJJY143030	7,100

system (SCADA), and new underground electric distribution systems.

CURRENT SITUATION: The existing infrastructure is degraded and at capacity for the current missions at Joint Region Marianas (JRM)-Andersen. Infrastructure requirements associated with the new beddown missions will exceed the existing capacity of the base infrastructure. Using the base infrastructure in its current configuration will impact mission ready status for the new mission facilities. This will require workarounds to provide infrastructure support for the current and new mission facilities. Overloaded electrical circuits and low voltage problems will continue to cause power outages to facilities and compromise essential mission functions. Pump Stations 24101 and 1098 will not have the capacity to provide adequate pumping due to the additional wastewater volumes associated with the beddown of new Missions. A Supervisory Control and Data Acquisition (SCADA) system for monitoring and controlling operations for the wastewater lift stations and other utilities does not exist on base.

IMPACT IF NOT PROVIDED: Without this project, Andersen will be unable to provide South Ramp Utility capabilities to support a Continuous Bomber Presence (CBP), Tanker Task Force (TTF), Theater Security Packages (TSP), and the Global Hawk beddown. Lack of these utilities would significantly impact readiness and proficiency, and could result in significant degradation of operational capability, and may increase the potential for a serious mishap.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Manual 32-1084, Facility Requirements. 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, no economic analysis was needed and a certificate of exception 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 UFC 1-200-02, dated 1 March 2013. Base Civil Engineer: (671) 366-7101. South Ramp Utilities Phase 2 total scope: 4,200 LM = 13,780 LF. Sewer: 3,200 M = 10,499 LF; Electrical: 1000 M = 3,281 LF

JOINT USE CERTIFICATION: This is a joint use installation utility/infrastructure project where Navy is the supporting component. This project is fully funded by the Air Force. The Navy and all tenants on this installation are, however, benefited by this project.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
JRM - ANDERSEN ANDERSEN AF BASE SITE # 1 GUAM	APR SOUTH RAMP UTILITIES PHASE 2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	832-266	1366/AJJY143030	7,100

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	21-MAY-14
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2015	15%
* (d) Date 35% Designed	27-FEB-15
(e) Date Design Complete	30-SEP-15
(f) 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 -	

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

	($000)
(a) Production of Plans and Specifications	0
(b) All Other Design Costs	284
(c) Total	284
(d) Contract	0
(e) In-house	284

(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	17 SEP

* 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:
N/A

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
JRM - ANDERSEN NORTHWEST GUAM AIR FORCE BASE SITE # 1 GUAM	PRTC ROADS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	851-147	3085/SAKW143046	2,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITY				1,475
CONSTRUCT PRTC ROADS	SM	29,619	49	(1,446)
SUSTAINABLITY AND ENERGY MEASURES	LS			(29)
SUPPORTING FACILITIES				684
STORM DRAINAGE	LS			(183)
CULVERTS	LS			(356)
SITE IMPROVEMENTS	LS			(81)
ENVIRONMENTAL REMEDIATION	LS			(42)
ARCHEOLOGICAL MONITORING	LS			(21)
SUBTOTAL				2,159
CONTINGENCY (5.0%)				108
TOTAL CONTRACT COST				2,267
SUPERVISION, INSPECTION AND OVERHEAD (6.2%)				141
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				86
TOTAL REQUEST				2,494
TOTAL REQUEST (ROUNDED)				2,500

10. Description of Proposed Construction: Construct roads for the PACAF Regional Training Center (PRTC) utilizing conventional design and construction methods to accommodate the mission, which should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. This project will include the final grading of the roads, drainage swales, and road system asphalt placement. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

Air Conditioning: 0 Tons

11. Requirement: 29619 SM Adequate: 0 SM Substandard: 29619 SM

PROJECT: Construct PRTC roads. (New Mission)

REQUIREMENT: Adequate road pavements, storm water management measures, and sediment control practices are required to support over 40 existing and future facilities located at the PRTC site at Northwest Field. Future development of the PRTC area increases the demand for final grading of roads, drainage swales, road system asphalt placement, and storm drainage culverts beyond their current capacity.

CURRENT SITUATION: PRTC includes the ongoing beddown of the Rapid Engineer Deployable Heavy Operational Repair Squadron Engineer (RED HORSE), Combat Communications, Commando Warrior, and Silver Flag. To facilitate Initial Operational Capability, RED HORSE established a rough graded primary roadway

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
JRM - ANDERSEN NORTHWEST GUAM AIR FORCE BASE SITE # 1 GUAM	PRTC ROADS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	851-147	3085/SAKW143046	2,500

network. This network does not include final grading, paving, or storm drainage required to meet Final Operational Capability. Individual facilities and training areas are already under construction and will require proper engineering to ensure connectivity to the primary road network. Vehicles are forced to negotiate rutted unpaved tracks to reach facilities, including emergency response vehicles, which significantly impact response times

IMPACT IF NOT PROVIDED: Unpaved roads quickly become rutted and filled with potholes, frequent rains on Guam compound this. These roads require almost continuous repairs and significantly increase maintenance on assigned vehicles. These roads directly support deployment activities for RED HORSE and Combat Communications Squadrons, unpaved roads increase deployment preparation time because of increased travel time and vehicle cleaning times prior to shipment. Current state of roads also increase response times for emergency vehicles because significantly reduced speeds are required to navigate the roads, putting personnel and facilities at greater risk.

ADDITIONAL: This project meets the criteria/scope specified in AFMAN 32-1084, "Facility Requirements" and UFCs 3-250-01FA and 3-250-18FA. A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option (new construction) will meet mission needs; therefore, a complete economic analysis was not performed and a certificate of exception was prepared. 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, dated 1 March 2013. Base Civil Engineer: (671) 366-7101. Roads 29,619 SM = 318,816 SF or 35,424 SY.

JOINT USE CERTIFICATION: This is an AF MILCON installation utility/infrastructure project on a joint base, whose real property belongs to the US Navy. All tenants or visitors who use the roads on this installation are benefited by this project.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
JRM - ANDERSEN NORTHWEST GUAM AIR FORCE BASE SITE # 1 GUAM	PRTC ROADS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	851-147	3085/SAKW143046	2,500

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used -

(3) All Other Design Costs 100

(4) Construction Contract Award 16 FEB

(5) Construction Start 16 MAR

(6) Construction Completion 17 MAR

(7) Energy Study/Life-Cycle analysis was/will be performed YES

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

DD FORM 1391, DEC 99 **Previous editions are obsolete.** **Page No.**

1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE
INSTALLATION AND LOCATION YOKOTA AIR BASE JAPAN	COMMAND: PACIFIC AIR FORCES	5. AREA CONST COST INDEX 1.77

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
AS OF 30 SEP 14	1141	317	270							1,728
END FY 2019										0

7. INVENTORY DATA ($000)

a. Total Acreage: 1,750	
b. Inventory Total as of : (30 Sep 14)	1,699,970
c. Authorization Not Yet in Inventory:	0
d. Authorization Requested in this Program: (FY2016)	8,461
e. Planned in Next Four Year Program:	34,914
f. Remaining Deficiency:	775,459
g. Grand Total:	2,518,804

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
171-212	C-130J Flight Simulator Facility	1,116 SM	8,461	May-14	Sep-15
		TOTAL	8,461		

9a. FUTURE PROJECTS: Typical Planned Next Four Years:

171-475	CATM Facility	1,913 SM	10,924
211-159	C-130J Corrosion Control Hangar	4,226 SM	23,990
		TOTAL	34,914

9b. Real Property Maintenance Backlog This Installation: ($M)	246

10. Mission or Major Functions: C-130J Aircrafts are projected to arrive in Yokota Air Base (AB), Japan in 2017 under a new mission. Air Mobility Command (AMC) plans to establish a regional C-130J flight simulator training program for pilots and crew members and Yokota Air Base has been selected as the AMC's Eastern Region Training Facility.

11. Outstanding pollution and Safety (OSHA Deficiencies):

a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

DD Form 1390, 24 Jul 00

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
YOKOTA AIR BASE YOKOTA AB SITE # 1 JAPAN	C-130J FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
41132	171-212	3541/ZNRE143000	8,461

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITY				5,468
C-130J FLIGHT SIMULATOR	SM	1,116	4,803	(5,361)
SUSTAINABILITY AND ENERGY MEASURES	LS			(107)
SUPPORTING FACILITIES				2,098
ELECTRICAL	LS			(590)
COMMUNICATIONS	LS			(95)
UTILITIES	LS			(500)
SITE IMPROVEMENTS	LS			(523)
PAVEMENTS	LS			(104)
ENVIRONMENTAL REMEDIATION	LS			(137)
ACHEOLOGICAL MONITORING	LS			(69)
SITE DEMO	LS			(82)
SUBTOTAL				7,566
CONTINGENCY (5.0%)				378
TOTAL CONTRACT COST				7,944
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				516
TOTAL REQUEST				8,461
TOTAL REQUEST (ROUNDED)				8,461
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				33,600.0

10. Description of Proposed Construction: Construct a compliant C-130J flight simulator facility utilizing economical design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

Air Conditioning: 57 Tons

11. Requirement: 1116 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: C-130J Flight Simulator Facility. (New Mission)

REQUIREMENT: This project is required to provide a compliant C-130J Flight Simulator facility to support new mission beddown and operations of C-130Js at Yokota Air Base (YAB), Japan. C-130J Aircrafts are projected to arrive at Yokota Air Base (YAB), Japan, in 2017. Air Mobility Command (AMC) plans to establish a regional C-130J flight simulator training program for pilots and crew members; YAB has been selected as AMC's Eastern Region Training Facility.

CURRENT SITUATION: There is no C-130J training facility currently in PACAF requiring personnel to travel to a CONUS location in order to obtain required

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
YOKOTA AIR BASE YOKOTA AB SITE # 1 JAPAN	C-130J FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
41132	171-212	3541/ZNRE143000	8,461

certifications on a C-130J Flight Simulator. Capacity of existing facilities limits the number of certified pilots and qualified aircrews.

IMPACT IF NOT PROVIDED: If this project is not provided, the C-130J Weapon System Trainer will have no facility to be installed in, therefore delaying its operational kick-off and subsequently increasing training costs and reducing the effectiveness of the airlift mission. Without the facility, personnel will be required to continuing traveling to CONUS to execute mandatory flight simulator certification on a space-available basis. Capacity of these facilities will limit the number of certified C-130J pilots and qualified aircrews thus impacting bed down of C-130J aircraft in the Pacific. Opportunities to effectively establish low-cost, high-impact mission training will be delayed or lost entirely due to lack of facility support. Without the Flight Simulator facility, personnel not current with simulator training before their arrival to YAB will sacrifice a significant amount of actual flight-time to execute training stateside, further decreasing productivity and impacting the airlift mission.

ADDITIONAL: This project is not eligible for Host Nation funding. This project meets the criteria/scope specified in AFM 32-1084, 'Facility Requirements', AFOSH Standard 127-118, 'Occupational Safety Training System Fire Protection' and ETL 93-5 'Fire Protection Engineering Criteria, Electronic Equipment Installations'. A preliminary analysis evaluating options for accomplishing the subject project determined that there is only one reasonable method to meet operational requirements: new construction. Therefore, a full economic analysis was not performed and a certificate of exception has been approved. This facility will house a flight simulator supplied by AMC in 2016. The project complies with the criteria/scope as specified in AMC A3TR Simulator Training Facility Requirements Document. 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, dated 1 March 2013. Base Civil Engineer: (011) 81-3117-55-7215. C-130J Flight Simulator Training: 1,116 SM = 12,013 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: YEN 103.9439

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 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
YOKOTA AIR BASE YOKOTA AB SITE # 1 JAPAN	C-130J FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41132	171-212	3541/ZNRE143000	8,461

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	21-MAY-14
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2015	15%
* (d) Date 35% Designed	27-FEB-15
(e) Date Design Complete	30-SEP-14
(f) 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 -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	508
(b) All Other Design Costs	254
(c) Total	762
(d) Contract	635
(e) In-house	127
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	17 DEC

* 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:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
SIMULATOR EQUIPMENT	3010	2015	33,100
COMM EQUIPMENT	3080	2016	400
FURNITURE	3400	2017	100

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE
3. INSTALLATION AND LOCATION AGADEZ NIGER	4. COMMAND: UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14 END FY 2019										

7. INVENTORY DATA ($000)

a. Total Acreage:	
b. Inventory Total as of : (30 Sep 14)	
c. Authorization Not Yet in Inventory:	0
d. Authorization Requested in this Program: (FY2016)	50,000
e. Planned in Next Four Year Program:	0
f. Remaining Deficiency:	0
g. Grand Total:	50,000

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
111-111	Construct Airfield and Base Camp - Agadez	102,772 SM	50,000	Troop Labor	
		TOTAL	50,000		

9a. Future Projects: Typical Planned in Next Four Years:

NONE	TOTAL	0

9b. Real Property Maintenance Backlog This Installation: ($M) 48

10. Mission or Major Functions: USAFRICOM has directed AFAFRICA to provide airfield infrastructure to enable beddown of aircraft to support operations in western Africa. USAFRICOM has negotiated an agreement with the Government of Niger to allow for the construction of a new runway and all associated pavements, facilities and infrastructure adjacent to the Niger Armed Force's Base Aerienne 201 (Airbase 201) south of the city of Agadez.

11. Outstanding pollution and Safety (OSHA) Deficiencies:

a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

DD Form 1390, 24 Jul 00

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
AGADEZ, NIGER	CONSTRUCT AIRFIELD AND BASE CAMP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	111-111	/AFAF140005	50,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				19,580
RUNWAY AND TURNAROUNDS (111-111)	SM	68,240	178	(12,147)
ISR AIRCRAFT APRON & TAXIWAY (112-211, 113-321)	SM	17,458	138	(2,409)
RELOCATABLE AIRCRAFT SHELTER (141-181)	EA	3	750,000	(2,250)
MOBILITY APRON AND TAXIWAY (112-211, 113-321)	SM	17,074	142	(2,425)
SUSTAINABILITY AND ENERGY MEASURES	LS			(350)
SUPPORTING FACILITIES				28,061
LIFE SUPPORT AREA (721-312)	SM	57,000	7	(399)
OPERATIONS & LOGISTICS AREA (124-134, 141-753)	SM	140,000	14	(1,960)
BASE ROADS (851-147)	LM	17,374	25	(434)
BASE PERIMETER FENCE (872-245)	LM	14,000	436	(6,104)
SECURITY GUARD TOWER PADS (872-845)	EA	8	7	(0)
BASE UTILITIES (842-245)	LM	4,050	50	(203)
HESCO BARRIER SITE PREP (872-247)	LM	3,050	110	(336)
AIRFIELD PAVEMENT MARKINGS (111-111)	SM	5,000	18	(90)
TROOP LABOR COSTS - TRAVEL	LS			(780)
TROOP LABOR COSTS - PER DIEM	LS			(123)
TRANSPORTATION VIA AIRLIFT	LS			(15,100)
HEAVY EQUIP FUEL/OPERATING COSTS	LS			(2,532)
SUBTOTAL				47,641
CONTINGENCY (5.0%)				2,382
TOTAL CONTRACT COST				50,023
TOTAL REQUEST				50,023
TOTAL REQUEST (ROUNDED)				50,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				14,680

10. Description of Proposed Construction: Using troop labor, construct 68,240 SM (1,830 LM) paved asphalt runway and turnarounds capable of supporting C-17 and miscellaneous light and medium load aircraft. Construct an asphalt mobility apron and taxiway to accommodate one C-17. Construct approximately 17,458 SM asphalt parking apron and taxiway for light load ISR aircraft. Construct approximately 17,074 SM asphalt parking apron and taxiway for medium load aircraft. Work will include pavement markings and solar lighting. Procure and install three, 140' x 140' re-locatable fabric tension aircraft hangers. Complete site preparations for required life support, operations and logistics areas and associated electrical and water distribution infrastructure. Construct base force protection infrastructure to include, but not limited to, perimeter fence and roads, HESCO barriers and Entry Control Point. War Reserve Material (WRM)-type equipment will be setup to provide facility and infrastructure requirements. Runway, taxiways and aprons shall be

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION AGADEZ, NIGER	4. PROJECT TITLE CONSTRUCT AIRFIELD AND BASE CAMP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	111-111	/AFAF140005	50,000

built in accordance with ETL 9-01, Airfield Planning and Design Criteria for Unmanned Aircraft Systems, for MQ-1/MQ-9 aircraft, ETL 97-9, criteria and Guidance for C-17 Contingency and training Operations on Semi-Prepared Airfields and UFC 3-260-02, Pavement Design for Airfields. Facilities will be designed/constructed as semi-permanent construction in accordance with DoD Unified Facilities Criteria (UFC) 1-200-01, General Building Requirements and UFC 1-200-02, High Performance and Sustainable Buildings Requirements, as applicable. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-010-01. This work will be completed by military troop labor.

11. Requirement: 102772 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Construct Airfield and Base Camp (New Mission)

REQUIREMENT: USAFRICOM has directed AFAFRICA to provide airfield infrastructure to enable beddown of aircraft to support operations in western Africa. USAFRICOM has negotiated an agreement with the Government of Niger to allow for the construction of a new runway and all associated pavements, facilities and infrastructure adjacent to the Niger Armed Force's Base Aerienne 201 (Airbase 201) south of the city of Agadez.

CURRENT SITUATION: Portions of Airbase 201 are available to U.S. forces for establishment of billeting and work space. Airbase 201 currently is supplied with water from the city of Agadez, but no electrical or sewer infrastructure exists. The Host Nation agreement allows U.S. forces to utilize Manu Dayak International Airport (approximately 2 km to the north of Airbase 201) for cargo aircraft until the new runway is completed. There is currently no sustained U.S. presence at the base.

IMPACT IF NOT PROVIDED: Without the completion of this project, AFAFRICA's ability to support CDRUSAFRICOM's strategic and operational objectives in western Africa will be severely limited. USAFRICOM will be in jeopardy of losing aircraft and associated infrastructure currently allotted to it through the GFMAP.

ADDITIONAL: An Economic Analysis (EA) was not performed because there is only one method possible to accomplish the objective (IAW AFI 65-501, 1.2.2.2). An EA Waiver has been prepared. Supporting facility cost exceeds 25% of the primary facilities because this project will be executed with troop labor therefore troop labor travel and per diem and material and equipment transportation costs are included in supporting facilities.

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 Air Force requirements. Elements of this program are not currently eligible for NATO Security Investment Program (NSIP) funding.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
AGADEZ, NIGER	CONSTRUCT AIRFIELD AND BASE CAMP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	111-111	/AFAF140005	50,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used -

(3) All Other Design Costs 0

(4) Construction Contract Award 15 OCT

(5) Construction Start 15 OCT

(6) Construction Completion 16 OCT

(7) Energy Study/Life-Cycle analysis was/will be performed NO

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
WRM	3080	16	8,543
HESCO BARRIERS	3080	16	744
TENT FLOORING	3080	16	585
SOLAR AIRFIELD LIGHTING	3080	16	250
PORTABLE GUARD BOOTH	3400	16	168
GUARD TOWER	3080	16	936
TROOP LABOR	3500	16	3,454

1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE

3. INSTALLATION AND LOCATION: AL MUSANAH AIR BASE OMAN	4. COMMAND: AIR COMBAT COMMAND (AFCENT)	5. AREA CONST COST INDEX 1.2

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
AS OF 30 SEP 14	CLASSIFIED DATA									Note 1
END OF FY 2019	CLASSIFIED DATA									

7. INVENTORY DATA ($000)

a. Total Acreage: Note 2	
b. Inventory Total as of : (30 Sep 14)	Note 2
c. Authorization Not Yet in Inventory:	58,915
d. Authorization Requested in this Program: (FY2016)	25,000
e. Planned in Next Four Year Program:	0
f. Remaining Deficiency:	TBD
g. Grand Total:	83,915

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
113-321	Airlift Apron	189,000 SM	25,000	May-14	Sep-15
		TOTAL	25,000		

9a. Future Projects: Typical Planned Next Four Years:

NONE	TOTAL	0

9b. Real Property Maintenance Backlog This Installation: ($M) N/A

10. Mission or Major Functions: Al Musanah has been designated as a key strategic location for future United States development. Current requirement is to provide support for strategic and tactical airlift to the region.

NOTE 1: Personnel numbers at a contingency location are classified, therefore not provided.
NOTE 2: Not a US owned installation and no US presence; therefore we do not have real property data.

11. Outstanding Pollution and Safety (OSHA Deficiencies):	0
a. Air Pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
AL MUSANAH AB OMAN	AIRLIFT APRON

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	113-321	/AMAB120001	25,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				19,965
AIRFIELD PAVEMENTS (113-321)	SM	189,000	92	(17,388)
REFUELING HYDRANTS (121-122)	EA	4	644,250	(2,577)
SUPPORTING FACILITIES				2,139
UTILITIES	LS			(151)
SITE IMPROVEMENTS	LS			(182)
AIRCRAFT TIE DOWNS	LS			(295)
COMMUNICATIONS	LS			(36)
AIRFIELD LIGHTING	LS			(927)
FUEL FILL STANDS	EA	2	274,000	(548)
SUBTOTAL				22,104
CONTINGENCY (5.0%)				1,105
TOTAL CONTRACT COST				23,209
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				1,509
TOTAL REQUEST				24,718
TOTAL REQUEST (ROUNDED)				25,000

10. Description of Proposed Construction: Includes all civil, electrical, and site work to construct a medium load aircraft parking apron with paved shoulders, edge and area lighting, signage, pavement markings with aircraft tie downs, grounding points, and fire hydrants. Construct DOD Type III hydrant refueling system with R-12 compatible hydrant points, and fill stands. The project will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with CENTCOM and DoD antiterrorism/force protection requirements per UFC 4-101-01.

11. Requirement: 189000 SM Adequate: SM Substandard: SM

PROJECT: Airlift Apron (New Mission)

REQUIREMENT: A requirement exists to construct an airlift apron with access taxiways; DOD Type III hydrant refueling system to support a combination of strategic (C-5 wide body equivalents) and tactical (C-130 equivalents) aircraft at Al Musanah Air Base, Oman.

CURRENT SITUATION: Al Musanah Air Base, Oman is a premier Royal Air Force of Oman (RAFO) operating base. In support of US long range basing strategy in the region, USCENTCOM has designated Al Musanah as a key strategic location for future US development. RAFO has designated the area south of the runway as the future development area for both US and UK forces. The US completed construction of a 38,000 SM aircraft apron with fuel storage and dispensing facilities along with a 3,000 LM extension to the south parallel taxiway. The airlift apron and fuels project will provide a Gas-n-Go capability by giving aircraft the ability to land

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
AL MUSANAH AB OMAN	AIRLIFT APRON

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	113-321	/AMAB120001	25,000

at Al Musanah AB, refuel, and then depart to final destinations that have limited fueling capability. The parallel taxiway extension completes the south parallel taxiway by providing ladder and high speed taxiway access from the east end of the runway. In order for the US to be fully operational, and meet USCENTCOM's trans-load strategy of providing an enroute location in support of intra and inter-theater operations along the southern line of communication in the region, a strategic airlift apron is required to support US contingency operations at the base.

IMPACT IF NOT PROVIDED: U.S. Central Command supports this project on the Master Plan Priority List (MPPL). Al Musanah is a key location that supports USCENTCOM's long range and theater posture plan strategy in the region. The location will eventually support refueling, strategic airlift operations, and logistics mission that will directly support USCENTCOM's current theater posture plan at the base and in the region. Additionally, the project will significantly expand strategic and tactical airlift capabilities in the region and continue to foster a mutually beneficial host nation relationship in the protection of shared national defense interests. If not provided, significant shortfalls in strategic and tactical airlift capability at this location will delay USCENTCOM's long range development plans for the region.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements and Unified Facilities Criteria (UFC 3-260-01) for Airfield and Heliport Planning and Design. Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders. An economic analysis was not performed for this project. A preliminary analysis of reasonable options for meeting this requirement (status quo, renovation, new construction) was done. It indicates there is only one option that will meet the operational requirements: new construction. Therefore, a certificate of exception has been prepared. 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, dated 1 March 2013. USAFCENT A7 engineer: (803) 895-8833. Airfield pavements: 189,000 SM = 2,034,000 SF.

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 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
AL MUSANAH AB OMAN	AIRLIFT APRON

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	113-321	/AMAB120001	25,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	01-JAN-13
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2015	65%
* (d) Date 35% Designed	25-JUN-14
(e) Date Design Complete	30-SEP-15
(f) 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 -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	1,500
(b) All Other Design Costs	750
(c) Total	2,250
(d) Contract	1,875
(e) In-house	375
(4) Construction Contract Award	16 FEB
(5) Construction Start	16 MAR
(6) Construction Completion	18 MAR

* 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:
N/A

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1. COMPONENT AIR FORCE	**FY 2016 MILITARY CONSTRUCTION PROGRAM**	2. DATE
3. INSTALLATION AND LOCATION RAF CROUGHTON, UNITED KINGDOM	4. COMMAND: UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX 1.27

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 14	23	338	174	0	0	0	0	4	182	721
END FY 2019	23	338	172	0	0	0	0	4	182	719

7. INVENTORY DATA ($000)	
a. Total Acreage: 694	
b. Inventory Total as of : (30 Sep 14)	583,734
c. Authorization Not Yet in Inventory:	0
d. Authorization Requested in this Program: (FY2016)	130,615
e. Planned in Next Four Year Program:	66,776
f. Remaining Deficiency:	87,684
g. Grand Total:	868,809

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2016)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
131-134	Consolidated SATCOM/Tech Control Fac	5,079 SM	36,424	Design	Build
141-454	JIAC Consolidation - Phase 2	19,453 SM	94,191	Design	Build
		TOTAL	130,615		

9a. Future Projects: Typical Planned in Next Four Years:

141-454	JIAC Consolidation - Phase 3		54,635
141-832	Main Gate Complex		12,141
		TOTAL	66,776

9b. Real Property Maintenance Backlog This Installation: ($M)	48

10. Mission or Major Functions: Provide outstanding installation support, services, force protection, and worldwide communications to the warfighter across the entire spectrum of operations. Supports NATO, EUCOM, CENTCOM, AFSPC, DoS & MoD operations. Sustain over 420 command and control circuits supporting 25% of all European Theater to CONUS communications.

11. Outstanding pollution and Safety (OSHA) Deficiencies:	
a. Air pollution	0
b. Water Pollution	0
c. Occupational Safety and Health	0
d. Other Environmental	0

DD Form 1390, 24 Jul 00

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM	CONSOLIDATED SATCOM/TECH CONTROL FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	131-134	1638/EXSW123006	36,424

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				22,224
SATCOM/TECH CONTROL FACILITY (131-134)	SM	2,830	4,182	(11,835)
SQ OPS FACILITY (141-454)	SM	2,229	3,469	(7,732)
ENTRY CONTROL POINT (730-837)	SM	20	3,469	(69)
ANTENNA TERMINAL FOUNDATIONS	EA	5	400,000	(2,000)
SUSTAINABILITY AND ENERGY MEASURES	LS			(587)
SUPPORTING FACILITIES				10,295
UTILITIES	LS			(946)
PAVEMENTS	LS			(932)
STANDBY GENERATOR	LS			(1,500)
SITE IMPROVEMENTS	LS			(456)
EXTERIOR COMMUNICATIONS	LS			(3,684)
DEMOLITION	SM	7,979	208	(1,660)
STORM DRAINAGE	LS			(117)
PL-1 SECURITY MEASURES	LS			(750)
UST REMOVAL/ENVIRONMENTAL CLEANUP	LS			(250)
SUBTOTAL				32,518
CONTINGENCY (5.0%)				1,626
TOTAL CONTRACT COST				34,144
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				854
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				1,301
TOTAL REQUEST				36,299
TOTAL REQUEST (ROUNDED)				36,424
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				7,730

10. Description of Proposed Construction: Construct a consolidated Satellite Communications (SATCOM)/TECH Control and administrative/storage facility (422d Comm Sq) meeting mission requirements utilizing conventional design and construction methods to accommodate the mission of the facility. The facility should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per UFC 4-101-01.

Air Conditioning: 300 Tons

11. Requirement: 5079 SM Adequate: 0 SM Substandard: 7979 SM

PROJECT: Construct Consolidated SATCOM/TECH Control and Communication Squadron

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM	CONSOLIDATED SATCOM/TECH CONTROL FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	131-134	1638/EXSW123006	36,424

Operations Facility. (Current Mission)

REQUIREMENT: This project is required to provide a purpose-built consolidated SATCOM/Tech Control (Protection Level 1 facility) and an administrative communications squadron operations facility that meets operational requirements for the 422 ABG mission at RAF Croughton, United Kingdom. The operations and missions supported by the 422 ABG include the President of the United States, Secretary of Defense, EUCOM, USAFE, AFRICOM, NATO, SCOPE Command, US State Department (supporting 155 US Embassy's worldwide), US Army and Navy, Joint Forces Commanders, Foreign Governments, Civil Air Patrol, Tactical Air Control Parties, Allied Rapid Response Corps and Combatant Commanders in the European/African/Southwest Asia areas of operations. These 422 ABG primary facilities support the core Air Force mission of winning the fight in cyberspace, supports the Department of Defense's global strike capabilities and also the United Kingdom only runway capable of supporting B-52 missions. In addition to supporting the entities above, these facilities support 420 long haul circuits providing 67% of all United Kingdom to Europe/Africa/Southwest Asia areas of operations communications as well as 24% of all European theater communications to the continental United States 24/7/365. This project is required to recapitalize inadequate and inefficient, non-purpose-built communications facilities and to provide additional, purpose-built space to fully enable current communications operations. This project will enable the demolition of 6,227 SM; facilities to be "demolished" are the current SATCOM facility (bldg 180/183) and Cyber Transportation Control Facility (bldg 30/43) and a number of support facility/structures. Work space is needed to accommodate 200 personnel which is the entire 422 Communication Squadron.

CURRENT SITUATION: RAF Croughton is classified as an enduring Air Force installation and is also host for US State Department Communication facilities. The existing buildings are 1950's constructed facilities that do not meet present day or future requirements and contain missions that cannot be shut-down/removed to temporary facilities to perform major renovations, which would surpass its current economic value (75%). Electrical and HVAC systems are outdated, inefficient and provide no possibility of potential mission expansion. Recent installation of new antenna dishes has maximized power capacity production and the current electrical layout poses potential safety risks to personnel operating within the facility and threatens the integrity of communication missions. Operational floor space is densely overpopulated with communication equipment, administrative and functional support areas have both space and configuration limitations and facilities such as restrooms and break rooms are completely inadequate. Energy and annual maintenance costs for the critical building systems that support these facilities are excessive and shall continue to increase with time. All facilities are beyond economical repair due to their age, physical deterioration and the presence of asbestos based materials. Facilities do not meet current code criteria for AT/FP, Life Safety or ADA. Construction of a new facility will enable the demolition of 6,227 SM of inadequate facilities and a further 1,752 SM of support facilities and structures. The existing communications facilities are located on opposite ends of the base which results is logistical inefficiencies for key personnel.

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM	CONSOLIDATED SATCOM/TECH CONTROL FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	131-134	1638/EXSW123006	36,424

IMPACT IF NOT PROVIDED: The severe space and infrastructure deficiencies of these facilities are beyond economical repair. The shortfalls and inadequacies of the facilities will continue to pose a threat to the mission operations within buildings 30 and 180. This substandard facility environment has potential for hindering communications support to the President of the United States, Department of Defense, United Kingdom Ministry of Defense, United States Department of State, NATO and 24% of all United States, European theater communications. The enduring mission at RAF Croughton will continue to require increasing amounts of reactive maintenance and escalating upgrade costs due to the deteriorating condition of the buildings. RAF Croughton mission personnel will continue to be accommodated in facilities which do not meet current code criteria for AT/FP, life safety and handicap accessibility and which do not provide an adequate Quality of life or Quality of Service environment.

ADDITIONAL: This project is not currently eligible for NATO funding. This project meets applicable criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements. 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. New construction is the only viable option because the renovation costs would exceed 75% PRV of the facilities (which were built in 1950's and beyond economic life) and because mission in the two facilities cannot be shut-down or relocated until dual-ops can be established which would add additional cost far exceeding its current replacement value. Therefore, a waiver will be prepared. 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, dated 1 March 2013. Base Civil Engineer: 0011-44-1280-708169; SATCOM/TECH Control: 2,830 SM = 30,462 SF; Administrative/Storage Facility: 2,229 SM = 23,993 SF; Entry Control Facility: 20 SM = 215 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: POUND .6363

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

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM	CONSOLIDATED SATCOM/TECH CONTROL FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	131-134	1638/EXSW123006	36,424

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used -

(3) All Other Design Costs 0

(4) Construction Contract Award 16 SEP

(5) Construction Start 16 DEC

(6) Construction Completion 18 JUN

(7) Energy Study/Life-Cycle analysis was/will be performed NO

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
UNINTERRUPTED POWER SUPPLY	3080	2016	1,500
TECH CONTROL FAC (TCF) EQUIP	3080	2016	5,200
OFFICE FURNITURE/EQUIPMENT	3400	2017	670
TELEPHONES	3400	2017	60
INTRUSION DETECTION SYSTEM	3080	2016	300

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM	JOINT INTELLIGENCE ANALYSIS COMPLEX CONSOLIDATION, PH2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-454	1638/EXSW143012	94,191

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				67,248
AFRICOM INTELLIGENCE ANALYTIC CENTER (141454)	SM	4,318	5,117	(22,095)
INTELLIGENCE FUSION CENTER (141454)	SM	3,387	4,229	(14,323)
BATTLEFIELD INFO COLLECTION&EXPLOTATION SYS	SM	1,183	4,229	(5,003)
DORMITORY, 168 ROOMS (721312)	SM	6,384	2,390	(15,258)
VISITING QUARTERS CONVERSION/RENO (724417)	SM	3,213	1,759	(5,652)
CHILD DEVELOPMENT CENTER ADDITION (740884)	SM	438	3,752	(1,643)
POST OFFICE ADDITION/RENOVATION (730443)	SM	530	1,844	(978)
ELEVATORS	EA	3	116,492	(349)
SUSTAINABILITY AND ENERGY MEASURES	LS			(1,948)
SUPPORTING FACILITIES				16,240
UTILITIES	LS			(4,912)
CHILLER PLANT	LS			(764)
SITE IMPROVEMENTS	LS			(1,892)
PAVEMENTS, WALKWAYS AND LIGHTING	LS			(4,207)
EXTERIOR COMMICATIONS	LS			(2,766)
PASSIVE FORCE PROTECTION/SECURITY FENCE	LS			(922)
COUNTRY ROOMS RELOCATION	LS			(777)
SUBTOTAL				83,489
CONTINGENCY (5.0%)				4,174
TOTAL CONTRACT COST				87,663
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				2,192
DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)				3,340
TOTAL REQUEST				93,194
TOTAL REQUEST (ROUNDED)				94,191
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				12,890

10. Description of Proposed Construction: Construct USAFRICOM Joint Intelligence Analytic Center, Intelligence Fusion Center, Battlefield Information Collection and Exploitation System Center, Dormitory (168 rooms),conversion/renovation of old dormitories to Visiting Quarters and additions/alterations to Child Development Center and Post Office utilizing conventional design and construction methods to accommodate the missions of the facilities. The facilities should be compatible with applicable DoD, Air Force, and base design standards. In addition, local materials and construction techniques shall be used where cost effective. Facilities will be designed as permanent construction in accordance with the DoD Unified Facilities Criteria (UFC) 1-200-01. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria UFC 4-101-01 and Intelligence Community Directive 705 and the stricter of US, United

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM	JOINT INTELLIGENCE ANALYSIS COMPLEX CONSOLIDATION, PH2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-454	1638/EXSW143012	94,191

Kingdom or European Union laws and norms.

Air Conditioning: 500 Tons

11. Requirement: 19453 SM Adequate: 0 SM Substandard: 16216 SM

PROJECT: Construct Joint Intelligence Analysis Complex, Phase 2 (New Mission)

REQUIREMENT: This project is required to provide a purpose-built Joint Intelligence Analysis and Production Complex which recapitalizes and consolidates all RAF Molesworth (RAFM) Intelligence operations and missions in support of US European Command (USEUCOM) and US Africa Command (USAFRICOM). This consolidation/relocation to RAF Croughton (enduring communication installation) will create operational and mission support efficiencies and allow divestiture of RAFs Molesworth and Alconbury (1,800,000 sq ft). This project is required to recapitalize inadequate and inefficient, nonpurpose-built intelligence analytic facilities at RAFM and to provide additional, purpose-built space to fully enable current intelligence missions directed since the USEUCOM Joint Intelligence Operations Center (JIOCEUR) Analytic Center (JAC) stood up in 1991 and USAFRICOM J2-M in 2008. These organizations provide all-source intelligence during peace, crisis and war, 24/7/365. This project is required to support responsive and agile Theater, Joint, all-source intelligence analysis & production, gain and maintain information dominance, and to support the COCOM's Strategy of Active Security through intelligence Building Partnership Capacity (BPC) and Partner Nation Engagement (PNE) missions. The CJCS-signed Joint Intelligence Center Executive Order (DTG 03160Z APR 06) directed establishment of JIOC facilities at all COCOMs "to operate together as a cohesive team." To effectively carry out this critical mission, the USEUCOM JAC and USAFRICOM J2-M require adequately sized and effectively configured facility that consolidates intelligence personnel with other national and international intelligence agency representatives to provide coherent, timely, actionable intelligence to the US, NATO and Coalition forces. Work space is needed for approximately 1,200 personnel with rapid expansion capability to integrate up to 81 Joint Reserve Intelligence Support Element Reserve personnel during surge operations.

CURRENT SITUATION: Intelligence mission growth at RAFM of over 500% since 1991 has resulted in a severe shortfall of intelligence spaces, resulting in intel missions being housed in over 21 undersized, widely-dispersed facilities, including a WWII B-17 hangar, several Cold War Cruise Missile facilities and leased, relocatable facilities. None of the current permanent facilities were purpose-built for their current use. This shortfall constrains COCOM decision making processes and collaborative intelligence analysis; and degrades the reliability of theater and national communications and intelligence assets. In addition to minimal Base Operations (BASOPS) expenditures, over $90M in Intelligence Community mission funds have been spent since 2005 to keep these aging facilities and supporting utilities systems in a minimally sustainable state. Current Intelligence mission facilities are 13 miles from support facilities, wasting thousands of personnel-hours of analytic effort per year in travel time and exposing personnel to one of the UKs most hazardous and heavily trafficked roads. Aging and inefficient primary power, back-up power and cooling systems critical to the intelligence mission are not able

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM	JOINT INTELLIGENCE ANALYSIS COMPLEX CONSOLIDATION, PH2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-454	1638/EXSW143012	94,191

to be economically upgraded, due to the nature of existing facilities. System failures cause frequent down-time for intelligence analysts, wasting thousands of personnel-hours in analytical effort and exposing the COCOM to intelligence blackouts. Facilities do not meet current code criteria for AT/FP, handicap accessibility and life-safety. This consolidation project would save, avoid or allow reallocation of $75M/yr in BASOP, CIVPERS, MILPERS and intelligence mission funding, including not having to fund current facility sustainment/maintenance backlog of $191M, required to bring these facilities at RAFM to an operationally adequate and sustainable condition.

IMPACT IF NOT PROVIDED: Severe facility shortfalls and dispersion will continue to constrain USEUCOM JAC and USAFRICOM J2-M ability to provide responsive and agile intelligence in support of their respective Combatant Commanders. Training to support intelligence BPC and PNE will continue to be constrained, levying an inordinate burden on the US Intelligence Community to support NATO and Coalition intelligence missions. Intelligence sustainment training and professional development for US intelligence personnel will continue to be constrained. Unanticipated power and cooling system failures will continue to cost thousands of hours of joint analytical effort per year. The Government will continue to spend $75M/year to support and sustain this mission and will be forced to invest up to $191 million to restore and modernize these facilities. Intel personnel will continue to be housed in facilities which do not meet current code criteria for AT/FP, handicap accessibility and life-safety, and which do not provide an adequate Quality of Life or Quality of Service. Intelligence facilities will continue to be geographically separated from support facilities, wasting additional thousands of hours of analytic effort.

ADDITIONAL: This project is not currently eligible for NATO funding. This project meets applicable criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements. Current organizations and missions to be consolidated in Phase 2 are the USAFRICOM J2-M (intelligence analysis and production for USAFRICOM); Intelligence Fusion Centre (IFC) in support of NATO (intelligence analysis and production for NATO and Coalition forces); the Undersecretary of Defense for Intelligence (USD/I) International Intelligence Technology and Programs United States Battlefield Information Collection and Exploitation Systems (IITP USBICES) (information technology (IT) support). Elements of this program are not currently eligible for NATO Security Investment Program (NSIP) funding. A preliminary analysis of alternatives for accomplishing this project indicated the best option to meet operational requirements is new construction. Therefore, no economic analysis was needed or performed. A waiver will be prepared. 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. 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, dated 1 March 2013.
Base Civil Engineer: 011-44-1280-708169
AFRICOM/J2-M: 4,318 SM = 46,475 SF; IFC: 3,387 SM = 36,454 SF; BICES: 1,183 SM =

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM	JOINT INTELLIGENCE ANALYSIS COMPLEX CONSOLIDATION, PH2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-454	1638/EXSW143012	94,191

12,733 SF; Dormitory: 6,384 SM = 68,711 SF; VQ: 3,213 SM = 34,582; CDC: 438 SM = 4,714 SF; PO: 530 SM = 5,704 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: POUND .6289

JOINT USE CERTIFICATION: This facility is programmed for joint use with all the services; however, it is fully funded by the Air Force.

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
RAF CROUGHTON RAF CROUGHTON SITE # 1 UNITED KINGDOM	JOINT INTELLIGENCE ANALYSIS COMPLEX CONSOLIDATION, PH2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27576	141-454	1638/EXSW143012	94,191

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by design-build procedures

(2) Basis:
(a) Standard or Definitive Design - NO
(b) Where Design Was Most Recently Used -

(3) All Other Design Costs 1,800

(4) Construction Contract Award 16 MAY

(5) Construction Start 16 SEP

(6) Construction Completion 19 JUN

(7) Energy Study/Life-Cycle analysis was/will be performed NO

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

EQUIPMENT NOMENCLATURE	PROCURING APPRO	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
FURNISHINGS - MSN SPT FAC	3400	2018	2,000
FURNISHINGS - INTEL FAC	2020	2018	3,540
INTRUSION DETECTION SYSTEMS EQ	2035	2018	2,500
TELEPHONES, VTC, OTHER EQUIP	2035	2018	850
COMMUNICATION, DATA PROCESSING	300	2018	4,000

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1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
WORLDWIDE CLASSIFIED CLASSIFIED LOCATION	LONG RANGE STRIKE BOMBER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
64014	390-222	/PAYZ16000A	77,130

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				77,130
SPECIAL EVALUATION PROGRAM	LS			(77,130)
SUPPORTING FACILITIES				0
SUBTOTAL				77,130
TOTAL CONTRACT COST				77,130
TOTAL REQUEST				77,130
TOTAL REQUEST (ROUNDED)				77,130

10. Description of Proposed Construction: This project requirements and construction type will be noted in the Classified DD Form 1391

11. Requirement: LS Adequate: LS Substandard: LS

PROJECT: As Required

REQUIREMENT: Special access is required. The classified DD Form 1391 will be provide upon request

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
WORLDWIDE CLASSIFIED CLASSIFIED LOCATION	LONG RANGE STRIKE BOMBER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
64014	390-222	/PAYZ16000A	77,130

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 01 JAN 2015	
* (d) Date 35% Designed	
(e) Date Design Complete	
(f) Energy Study/Life-Cycle analysis was/will be 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):

	($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

(5) Construction Start

(6) Construction Completion

*** 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:
N/A

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
WORLDWIDE CLASSIFIED CLASSIFIED LOCATION	MUNITIONS STORAGE IGLOOS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
27248	422-264	/PAYZ16000B	3,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				3,000
MUNITIONS STORAGE IGLOO	LS			(3,000)
SUPPORTING FACILITIES				0
SUBTOTAL				3,000
TOTAL CONTRACT COST				3,000
TOTAL REQUEST				3,000
TOTAL REQUEST (ROUNDED)				3,000

10. Description of Proposed Construction: This project requirements and construction type will be noted in the classified DD Form 1391

11. Requirement: 0 LS Adequate: 0 LS Substandard: 0 LS

PROJECT: As required

REQUIREMENT: Special access is required. The classified DD Form 1391 will be provided upon request

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

1. COMPONENT	FY 2016 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
WORLDWIDE CLASSIFIED CLASSIFIED LOCATION	MUNITIONS STORAGE IGLOOS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27248	422-264	/PAYZ16000B	3,000

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 01 JAN 2015	
* (d) Date 35% Designed	
(e) Date Design Complete	
(f) Energy Study/Life-Cycle analysis was/will be 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):

	($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

(5) Construction Start

(6) Construction Completion

*** 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:
N/A

1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
WORLDWIDE UNSPECIFIED VARIOUS LOCATIONS	UNSPECIFIED MINOR MILITARY CONSTRUCTION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
91211	962-000	/PAYZ160003	22,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				22,900
MILCON MINOR CONSTRUCTION	LS			(22,900)
SUPPORTING FACILITIES				0
SUBTOTAL				22,900
TOTAL CONTRACT COST				22,900
TOTAL REQUEST				22,900
TOTAL REQUEST (ROUNDED)				22,900

10. Description of Proposed Construction:

11. Requirement: Adequate: Substandard:

PROJECT: As required.

REQUIREMENT: Minor construction projects authorized by 10 U.S. Code 2805 are military construction projects with an estimated funded cost of more than $1,000,000 and equal or less than $3,000,000. This authority provides a means of accomplishing projects that are not identified but which are anticipated to arise during FY16. Included would be projects to support new mission requirements, new equipment, and other essential support to Air Force missions.

DD FORM 1391, DEC 99 Previous editions are obsolete. Page No.

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1. COMPONENT AIR FORCE	FY 2016 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION, SITE AND LOCATION	4. PROJECT TITLE
WORLDWIDE UNSPECIFIED VARIOUS LOCATIONS	PLANNING AND DESIGN

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. RPSUID/PROJECT NUMBER	8. PROJECT COST ($000)
91211	961-000	/PAYZ160002	89,164

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST ($000)
PRIMARY FACILITIES				89,164
PLANNING AND DESIGN (91211)	LS			(47,538)
PLANNING AND DESIGN (27576)	LS			(40,800)
PLANNING AND DESIGN (27248)	LS			(826)
SUPPORTING FACILITIES				0
SUBTOTAL				89,164
TOTAL CONTRACT COST				89,164
TOTAL REQUEST				89,164
TOTAL REQUEST (ROUNDED)				89,164

10. Description of Proposed Construction:

11. Requirement: Adequate: Substandard:

PROJECT: As required.

REQUIREMENT: These planning and design funds are required to complete the design of facilities in the FY17 Military Construction Program, initiate design of facilities in the FY18 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.

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