1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE
INSTALLATION AND LOCATION BUCKLEY AIR FORCE BASE COLORADO	COMMAND: AIR FORCE SPACE COMMAND	5. AREA CONST COST INDEX 1.02

. Personnel	PERMANENT			STUDENTS			SUPPORTED			
trength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 03	368	2216	835	0	0	0	42	1013	1607	6,08
END FY 2008	365	2154	791	0	0	0	42	1013	1607	5,97

. INVENTORY DATA ($000)		
Total Acreage:	3,832	
Inventory Total as of : (30 Sep 03)		242,56
Authorization Not Yet in Inventory:		57,70
Authorization Requested in this Program:		12,24
Authorization Included in the Following Program:	(FY 2006)	23,18
Planned in Next Three Years Program:		60,50
Remaining Deficiency:		12,00
Grand Total:		408,19

. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2005)					
CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,OOO	DESIGN START	STATUS CMPL
36-773	Chapel Center	2,248 SM	6,100	Apr-03	Sep-04
37-884	Child Development Center	2,423 SM	6,147	Apr-03	Sep-04
		Total	12,247		

a. Future Projects: Included in the Following Program: (FY2006)			
31-111	ADAL Communications Complex	5,666 SM	10,600
24-135	Consolidated Fuels Center	420K GL	7,089
40-873	Leadership Development Ctr	2,100 SM	5,500
		Total	23,189

b. Future Projects: Typical Planned Next Three Years:			
11 o-243	Consolidated Services Facility	3,171 SM	4,000
42-758	Logistics Complex	1,900 SM	5,500
71-476	Small Arms Range	605 SM	10,400
30-835	Security Forces Operations Facility	2,390 SM	7,700
30-441	Education Center	2,045 SM	6,200
11 4-425	Vehicle Maintenance Facility	1,812 SM	4,600
79-511	Fire Training Facility	1 EA	3,500
151-147	Widen 6th Avenue (DAR)	1524 LM	3,500
30-837	Entry Control Facility	167 SM	2,500
42-674	ADAL Fitness Center	687 SM	3,500
42-758	Consolidated Base Warehouse	9,293 SM	9,100
		Total	60,500

c. Real Propery Maintenance Backlog This Installation ($M)	33

0. Mission or Major Functions: A space group; a space warning squadron; an operations support squadron; Aerospace Data Facility; an Air Force Reserve Command space warning squadron; and an Air National Guard wing with F-l 6 aircraft.

1. 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 AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE

INSTALLATION AND LOCATION	COMMAND:	5. AREA CONST COST INDEX
BUCKLEY AIR FORCE BASE COLORADO	AIR FORCE SPACE COMMAND	1.02

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 03	368	2216	835	0	0	0	42	1013	1607	6,081
END FY 2008	365	2154	791	0	0	0	42	1013	1607	5,972

7. INVENTORY DATA ($000)			
Total Acreage:	3,832		
Inventory Total as of : (30 Sep 03)			242,560
Authorization Not Yet in Inventory:			57,700
Authorization Requested in this Program:			12,247
Authorization Included in the Following Program:		(FY 2006)	35,607
Planned in Next Three Years Program:			53,900
Remaining Deficiency:			0
Grand Total:			402,014

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2005)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
736-773	Chapel Center	2,248 SM	6,100	Apr-03	Sep-04
737-884	Child Development Center	2,423 SM	6,147	Apr-03	Sep-04
		Total	12,247		

9a. Future Projects: Included in the Following Program:		(FY2006)	
442-758	Logistics Complex	1,900 SM	4,000
740-873	Leadership Development Ctr	2,100 SM	5,400
610-243	Consolidated Services Facility	3,171 SM	6,200
730-441	Education Center	2,045 SM	4,200
730-835	Security Forces Operations Facility	2,390 SM	7,200
124-135	Consolidated Fuels Center	420K GL	8,607
		Total	35,607

9b. Future Projects: Typical Planned Next Three Years:			
131-111	ADAL Communications Facility	3,347 SM	10,900
171-476	Outdoor Arms Range	605 SM	3,100
214-425	Vehicle Maintenance Facility	1,812 SM	4,500
179-511	Fire Training Facility	1 EA	3,500
721-312	Dormitory, 132 RM	132 RM	8,300
851-147	Widen 6th Avenue	1524 M	3,000
742-674	Fitness Center Addition	687 SM	3,500
442-758	Consolidated Base Warehouse	9,293 SM	9,100
851-147	Upgrade Base Infrastructure PH IV	1 EA	8,000
		Total	53,900

9c. Real Propery Maintenance Backlog This Installation ($M)	33

10. Mission or Major Functions: A space group; a space warning squadron; an operations support squadron; Aerospace Data Facility; an Air Force Reserve Command space warning squadron; and an Air National Guard wing with F-16 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

DD Form 1390, 24 Jul 00

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BUCKLEY AIR FORCE BASE, COLORADO	CHAPEL CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35996	730-773	CRWU043006	6,147

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
CHAPEL CENTER FACILITY				4,361
CHAPEL CENTER	SM	2,423	1,780	(4,313)
ANTITERRORISM/FORCE PROTECTION	SM	2,423	20	(48)
SUPPORTING FACILITIES				1,180
UTILITIES	LS			(180)
PAVEMENTS	LS			(450)
SITE IMPROVEMENTS	LS			(240)
SPECIAL FOUNDATIONS	LS			(260)
COMMUNICATION SUPPORT	LS			(50)
SUBTOTAL				5,541
CONTINGENCY (5.0 %)				277
TOTAL CONTRACT COST				5,818
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				332
TOTAL REQUEST				6,150
TOTAL REQUEST (ROUNDED)				6,147
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(228.0)

10. Description of Proposed Construction: Single-story steel frame structure with reinforced concrete foundation and slab fox expansive soils, slit-face CMU exterior rith finish system accents and standing seam metal roof. Space fox worship, administration and religious education. Includes utilities, access, parking, site preparation, and all other support. Comply with DoD force protection requirements per unified facilities criteria.

Air Conditioning: 400Tons

11. REQUIREMENT: 2,423 SM ADEQUATE: 0 SM SUBSTANDARD: 546SM

PROJECT: Construct a chapel center. (New Mission)

REQUIREMENT: A 300 seat chapel center is required to provide ministry, counseling services, and religious education to meet the needs of permanent party personnel and their dependents assigned to Buckley AFB. The chapel center will be multi-functional in design to accomodate use by other base organizations. Air Force Space Command became the base host on 1 Oct 00 per direction from the SECAF and the CSAF. The transition plan has authorized the standup of an Air Base Wing to support the active duty military and their dependents. An on-base chapel center is required to meet the moral and spiritual, counseling, and religious education needs of active duty military personnel and their families. The facility is sized fox 2482 active duty members. Estimated dependent population is 3,413. Total population served is 5,895. Installation is nuthoxized a 300 seat chapel center per the USAF "Religious Facility Design Guide", Feburary 2000.

CURRENT SITUATION: The Buckley Air Force Base chapel is located within a temporary nodular structure, originally installed in 1996 and converted in 2000, as an expedient

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BUCKLEY AIR FORCE BASE, COLORADO	CHAPELCENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35996	730-773	CRWU043006	6,147

olution to the transition of this ANG base to an active duty base. This modular txuctuxe also houses three other base support activities and is undersized fox ituxgical services; lacks the space and privacy fox religious education and base ounseling services. This is forcing active duty personnel and their families to attend ervices off base. The chapel must sexve a full religious program, to include social nd educational programs to enhance the "Quality of Life" within the community.

MPACT IF NOT PROVIDED: Lack of space seriously impacts the entire chapel program. 'he chapel community acts as an unofficial forum fox the base's mission and morale. The amilies and singles who attend the chapel, commit themselves to good mental health and utual support as the practice their faith. The continued lack of space will drive more nd more people away from the chapel reducing base cohesiveness and a sense of ommunity.

DDITIONAL: This project meets the scope/criteria specified in Air Force Handbook 32-084, "Facility Requirements" and the Air Force "Religious Facilities Design Guide". A reliminary analysis of reasonable options fox accommodating this project (status quo, enovation, upgrade/removal, new construction, and/ox leasing) was done. It indicates here is only one option, new construction, that will meet operational requirements. ecause of this a full economic analysis was not performed. A Certificate of Exemption as been prepared. Base Civil Engineer: Lt Col Alfred C. Schaxff, (303) 677-6501. hapel Center: 2,423 SM = 26,081 SF.

OINT USE CERTIFICATION: This facility is programmed fox joint use with the Army, Navy nd Maxine Corps; however, it is fully funded by the Air Force.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BUCKLEY AIR FORCE BASE, COLORADO	CHAPELCENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35996	730-773	CRWU043006	6,147

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	01-APR-03
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2004	15%
* (d) Date 35% Designed	15-SEP-03
(e) Date Design Complete	01-SEP-04
(f) Energy Study/Life-Cycle analysis was/will be performed	YES

(2) Basis:

(a) Standard ox Definitive Design -	NO
(b) Where Design Was Most Recently Used -	

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

	($000)
(a) Production of Plans and Specifications	368
(b) All Other Design Costs	184
(c) Total	552
(d) Contract	460
(e) In-house	92

(4) Construction Contract Award	04 DEC
(5) Construction Start	05 FEB
(6) Construction Completion	06 FEB

* 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	3080	2005	78
FURNISHINGS	3400	2005	150

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BUCKLEY AIR FORCE BASE, COLORADO	CHILD DEVELOPMENT CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35996	740-884	CRWU043007	6,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
CHILD DEVELOPMENT CENTER (192 PN)				4,040
CHILD DEVELOPMENT CENTER	SM	2,248	1,780	(4,001)
ANTITERRORISM/FORCE PROTECTION	SM	2,240	17	(38)
SUPPORTING FACILITIES				1,490
UTILITIES	LS			(260)
PAVEMENTS	LS			(350)
SITE IMPROVEMENTS/PLAYGROUND/STORAGE	LS			(560)
SPECIAL FOUNDATIONS	IS			(280)
COMMUNICATION SUPPORT	LS			(40)
SUBTOTAL				5,530
CONTINGENCY (5.0 %)				276
TOTAL CONTRACT COST				5,806
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				331
TOTAL REQUEST				6,137
TOTAL REQUEST (ROUNDED)				6,100
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,019.0)

10. Description of Proposed Construction: Single-story structural steel frame with reinforced concrete foundation and floor slab. Brick exterior, finish system accents, and standing seam metal roof. Includes pick-up/drop-off area, outdoor play area, rtility spaces, utilities, parking, access, site preparation, and all other support. Comply with DoD force protection requirements per unified facilities criteria.
Air Conditioning: 773Tons

11. REQUIREMENT: 4,254 SM ADEQUATE: 2,006 SM SUBSTANDARD : 0 SM

PROJECT: Construct a child development center. (New Mission)

REQUIREMENT: Adequate child care facilities are required to accommodate the dependent children of growing numbers of USAF personnel assigned to Buckley Air Force Base resulting from the establishment of a new active duty Air Base Wing. The Secretary of the Air Force and the Chief of Staff of the Air Force established Air Force Space Command as the installation host effective 1 October 2000.

CURRENT SITUATION: The existing child development center at Buckley AFB was constructed for a capacity of 214 children. This center is utilized to its maximum capacity now rith an active waiting list of approximately 115 children. The addition of another 385-plus active duty personnel will generate an estimated demand for an additional 125 spaces. This will create a deficit of approximately 240 spaces. Using the 80% rule, 192 spaces will be required to fulfill the base requirements. Many service members are currently unable to enroll their children in the existing child development center due to the lack of capacity. Numerous child care centers exist in the metropolitan area; however, only one of these is accredited to Air Force standards. Fees charged by this Facility are two to three times the amount charged by the present child development

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BUCKLEY AIR FORCE BASE, COLORADO	CHILD DEVELOPMENT CENTER

5. PROGRAMELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35996	740-884	CRWU043007	6,100

enter and are unaffordable for most base personnel.

MPACT IF NOT PROVIDED: If a new child development center is not provided, families ıust continue to use expensive off-base programs or leave their children with unlicensed &y-sitters. Families continue to expend up to $2,500 per child per year plus travel :xpenses to use off-base facilities. Since off-base center schedules do not typically ıccommodate the shifts or long working hours of military personnel, they impose ıardships on the military personnel forced to use them. With service members :ontinuously on call for duty, it is imperative they have reliable, convenient, well-un, safe, healthy and affordable child care facilities.

ıDDITIONAL: A preliminary analysis of reasonable options for accomplishing this project [status quo, renovation, upgrade/removal, new construction, and/or leasing) was done. :t indicates #at only one option, new construction, will meet operational requirements. ɔecause of this, a full economic analysis was not performed. A Certificate of Exception ıas been prepared. This project meets the criteria/scope specified in Air Force ıandbook 32-1084, "Facility Requirements". Base Civil Engineer: Lt Col Alfred C. ɔcharff, (303) 677-6501. Child Development Center: 2,248 SM = 24,197 SF.

JOINT USE CERTIFICATION: This facility is programmed for use with Navy, Army and Marine :orps dependent children; however it is fully funded by the Air Force.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BUCKLEY AIR FORCE BASE, COLORADO	CHILD DEVELOPMENT CENTER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
35996	740-884	CRWU043007	6.100

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	Ol-APR-03
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of 01 JAN 2004	15%
* (d) Date 35% Designed	10-SEP-03
(e) Date Design Complete	Ol-SEP-04
(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) t (b) or (d) t (e) :	($000)
(a) Production of Plans and Specifications	366
(b) All Other Design Costs	183
(c) Total	549
(d) Contract	457
(e) In-house	92

(4) Construction Contract Award	04 DEC
(5) Construction Start	05 FEB
(6) Construction Completion	06 FEB

* 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/KITCHEN EQUIPMENT	3400	2005	600
COMMUNICATIONS	3080	2005	69
PLAYGROUND EQUIPMENT	3080	2005	350

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE

. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST
YNDALL AIR FORCE BASE	AIR EDUCATION AND	COST INDEX
LORIDA	TRAINING COMMAND	0.79

. Personnel	PERMANENT			STUDENTS			SUPPORTED			
trength	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
S OF 30 SEP 02	763	3432	1740	121	66	0	0	0	0	6,122
ND FY 2007	764	3588	1698	121	66	0	0	0	0	6,237

. INVENTORY DATA ($000)	
. Total Acreage: 28,824	
. Inventory Total as of : (30 Sep 02)	1,196,741
. Authorization Not Yet in Inventory:	52,117
. Authorization Requested in this Program:	18,962
. Authorization Included in the Following Program: (FY 2006)	24,000
Planned in Next Three Years Program:	9,975
. Remaining Deficiency:	22950
. Grand Total:	1,324,748

. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2005)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
71-211	F-22 Operations Facility Addition	750 SM	1,548	Mar 03	Sep 04
11-177	F-22 Squadron Operations/AMU	6,972 SM	17,414	Mar03	Sep 04
		Total	18.962		

a. Future Projects: Included in the Following Program: (FY2006)			
10-285	1 st Air Force Headquarters - Ph 2	6,040 SM	16,000
21-312	Dormitory (120 RM)	120 RM	8,000
		Total	24,000

b. Future Projects: Typical Planned Next Three Years:			
42-647	Fitness Center	5,306 SM	9,975
		Total	9,975

c. Real Property Maintenance Backlog This Installation ($M)	73

10. Mission or Major Functions: A fighter training wing with three F-15 squadrons responsible for training all F-15 aircrews; Air Combat Command's Headquarters First Air Force, a weapons evaluation group, Southeast Air Defense Sector; and the Air Force Civil Engineering Support 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 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
TYNDALL AIR FORCE BASE, FLORIDA	F-22SQUAD OPS/AMU/HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27219	211-177	XLWU053001	17,414

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
F-22 SQUAD OPS/AMU/HANGAR				11,221
MAINTENANCE HANGAR/AMU	SM	5,332	1,580	(8,425)
SQUADRON OPERATIONS	SM	1,640	1,620	(2,657)
ANTITERRORISM FORCE PROTECTION	SM	6,972	20	(139)
SUPPORTING FACILITIES				4,450
UTILITIES	LS			(1,650)
PAVEMENTS	LS			(1,125)
SITE IMPROVEMENTS	LS			(635)
RELOCATE RAMP LIGHTING	LS			(620)
DEMOLITION	SM	1,921	62	(120)
ABATEMENT	SM	1,921	156	(300)
SUBTOTAL				15,671
CONTINGENCY (5.0 %)				784
TOTAL CONTRACT COST				16,454
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				938
TOTAL REQUEST				17,392
TOTAL REQUEST (ROUNDED)				17,414

10. Description of Proposed Construction: Construct special foundation and pilings, split-faced masonry block and metal panel walls, standing seam metal roof, secure work areas, fire suppression/detection, and HVAC. Complete asbestos abatement, demolition of buildings (1,921 SM) and support utilities in way of construction. Include *F-22* top secret security features and antiterrorism *force* protection measures.

Air Conditioning: 225Tons

11. REQUIREMENT: 393,859 SM ADEQUATE: 318,841 SM SUBSTANDARD: 71,233 SM

PROJECT: Construct F-22 Consolidated Squadron Operations/AMU/Hangar (New Mission)

REQUIREMENT: Adequately sized, configured and secure facility providing squadron operations, covered maintenance area and maintenance management space is required to support the beddown of the next generation F-22 fighter at Tyndall AFB. The F-22 is built with composite materials to meet stealth mission requirements. Due to the classified mission of the F-22 and the quick burn rate of composite materials, the maintenance facility must have a controlled environment, fire protection and security provisions. This project supports the delivery of aircraft in FY07 and beddown of the second *F-22* training squadron at Tyndall AFB. Antiterrorism force protection measures will comply with minimum DoD *Force* Protection Construction Standards.

CURRENT SITUATION: In order to accommodate the full F-22 training program, a second *F-22* flying squadron will be established at Tyndall AFH. F-22s will be delivered in a phased program *for* pilot training as identified in the 2000 SATAF report. The F-15 training mission will continue and then slowly decline after the delivery *of* the second

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
TYNDALL AIR FORCE BASE, FLORIDA	F-22SQUAD OPS/AMU/HANGAR

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27219	211-177	XLWU053001	17,414

F-22 squadron. Since the F-15 mission will operate concurrently with the F-22 mission as it draws down, all existing aircraft maintenance units and hangar spaces will be required for the F-15 mission and the first half of the F-22 mission. In addition, the classified mission of the F-22 dictates that facilities cannot be shared. Presently, there are no facilities on base that can be converted for F-22 maintenance and flying operations. The main overhead electrical distribution feeder for the aircraft ramp lighting runs directly over the building site of this hangar. This feeder will have to be placed underground with new transformers. Also, because of the location, the installation and rearrangement of a portion of existing ramp/hangar access lighting (adjacent hangar) will be required.

IMPACT IF NOT PROVIDED: Tyndall AFB will not be able to support this additive mission without a new consolidated operations/maintenance hangar. The F-22 pilot training program will not be able to provide enough trained pilots to keep pace with the production of the Air Force's newest weapon system.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1,084, "Facility Requirements." A preliminary analysis of reasonable options for accomplishing this project (status quo, add to and alter, and new construction) indicates there is only one option that will satisfy operational requirements; therefore, a full economic analysis was not performed. A certificate of exception has been prepared. Base Civil Engineer: Lt Col Jerry K. Weldon (850) 283-3283. F-22 Consolidated Squadron Ops/AMU/Hangar: 6,972 SM = 75,018 SF; Squad Ops = 1,640 SM/17,646 SF, AMU/ Hangar = 5,332SM/57,372 SF.

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

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION PYNDALL AIR FORCE BASE, FLORIDA	4. PROJECT TITLE F-22SQUAD OPS/AMU/HANGAR	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27219	211-177	XLWU053001	17,414

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 522

(4) Construction Contract Award 05 FEB

(5) Construction Start 05 APR

(6) Construction Completion 07 APR

(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	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
TYNDALL AIR FORCE BASE, FLORIDA	F-22 OPERATIONS FACILITY ADDITION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27219	171-211	XLWU053002	1.548

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
F-22 OPERATIONS FACILITY ADDITION				1,227
FLIGHT ACADEMICS TRAINING ADDITION	SM	750	1,623	(1,217)
ANTITERRORISM FORCE PROTECTION	SM	750	13	(10)
SUPPORTING FACILITIES				164
UTILITIES	LS			(43)
PAVEMENTS	LS			(110)
SITE IMPROVEMENTS	LS			(11)
SUBTOTAL				1,391
CONTINGENCY (5.0 %)				70
TOTAL CONTRACT COST				1,461
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				83
TOTAL REQUEST				1,544
TOTAL REQUEST (ROUNDED)				1,548

10. Description of Proposed Construction: Construct an addition to the F-22 operations facility with special reinforced foundations, split-faced block walls, standing seam metal roof, additional security and shielding provisions, environmental controls, communication networking and all necessary support.

11. REQUIREMENT: 41,508 SM ADEQUATE: 33,508 SM SUBSTANDARD : 0 SM

PROJECT: Add to F-22 Operations Facility (New Mission)

REQUIREMENT: Adequately sized, configured and secure operations facility providing simulator and academic flight training is required to support the next generation F-22 fighter. Due to the classified mission of the F-22, this facility must be shielded and have the necessary security provisions. Antiterrorism force protection measures will comply with minimum DoD Force Protection Construction Standards

CURRENT SITUATION: An increase in flight academics training space is required to provide secure training and mission briefs for a second squadron of F-22's bedding down at Tyndall AFB. This squadron is scheduled to arrive in FY07. The current F-22 pilot academic training facility is not large enough to support an additional training squadron. The initial FY2000 F-22 beddown site survey report identified construction of an addition to the existing facility as the preferred solution.

IMPACT IF NOT PROVIDED: The second F-22 fighter training squadron cannot function at Tyndall AFB without a properly shielded and secure facility for necessary academic training. Without this space, F-22 pilot qualification training cannot be conducted here, and F-22 pilot training will be delayed.

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, add to and alter, and new construction) indicates there is only one option that will satisfy operational requirements. Therefore, a full economic analysis was not performed. A certificate of exception has

.. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

I. INSTALLATION AND LOCATION	4. PROJECT TITLE
TYNDALL AIR FORCE BASE, FLORIDA	F-22 OPERATIONS FACILITY ADDITION

5. PROGRAMELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27219	171-211	XLWU053002	1,548

een prepared. Base Civil Engineer: Lt Col John K Borland, (850) 283-3283. F-22 perations Facility Addition: 750 SM = 8,000 SF.

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

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
TYNDALL AIR FORCE EASE, FLORIDA	F-22 OPERATIONS FACILITY ADDITION

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27219	171-211	XLWU053002	1,548

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	15-MAR-03
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2004	15%
• (d) Date 35% Designed	Ol-AUG-03
(e) Date Design Complete	03-SEP-04
(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) t (b) or (d) t (e):

	($000)
(a) Production *of* Plans and Specifications	93
(b) All *Other* Design Costs	46
(c) Total	139
(d) Contract	123
(e) In-house	16

(4) Construction Contract Award	05 JAN
(5) Construction Start	05 MAR
(6) Construction Completion	06 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

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
ROBINS AIR FORCE BASE GEORGIA	AIR FORCE MATERIEL COMMAND:	0.82

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 03	1608	7058	14952		13		2	2	20	23,655
END FY 2008	1566	6978	14853		13		2	2	20	23,434

7. INVENTORY DATA ($000)			
Total Acreage:	8,722		
Inventory Total as of : (30 Sep 03)			1,914,573
Authorization Not Yet in Inventory:			85,660
Authorization Requested in this Program:			15,000
Authorization Included in the Following Program:		(FY 2006)	20,000
Planned in Next Three Years Program:			121,400
Remaining Deficiency:			322,980
Grand Total:			2,479,613

8. PROJECTS REQUESTED IN THIS PROGRAM:				(FY 2005)		
CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
113-321	Aircraft Ramp	11	HE	15,000	Design	Build
		Total		15,000		

9a. Future Projects: Included in the Following Program:		(FY2006)		
141-764	Software Support Facility	7,432	SM	20,000
		Total		20,000

9b. Future Projects: Typical Planned Next Three Years:				
130-142	Replace Fire/Crash Rescue Station	2,300	SM	6,300
136-661	Approach Lighting System	1	LS	2,000
211-116	Depot Maintenance Support Hangar	4,682	SM	8,600
211-152	Advanced Metal Finishing Facility, Ph 1	11,613	SM	30,000
211-152	Aircraft Component Repair Facility	6,690	SM	20,000
217-712	Avionics Facility (116 ACW)	1,858	SM	3,800
217-742	51st Combat Communications Squadron Operations	2,700	SM	5,000
217-742	54th Combat Communications Squadron Operations	2,700	SM	7,200
218-712	Replace Ground Support Equipment Mnt Facility	4,924	SM	9,000
610-675	Consolidate Logistics Facility Depot Operations	6,505	SM	10,000
721-315	Visiting Quarters	4,600	SM	8,300
730-835	Security Forces Facility	3,763	SM	7,200
831-145	Upgrade Domestic/Industrial Sewage	1	LS	4,000
		Total		121,400

9c. Real Propery Maintenance Backlog This Installation ($M)	104

10. Mission or Major Functions: Warner Robins Air Logistics Center which is responsible for logistics management, support and depot-level maintenance of systems including F-15, C-130, C-5, C-141, and U-2 aircraft, helicopters, missiles and remotely piloted vehicles; an air base wing; an air control wing; HQ Air Force Reserve Command; an Air Mobility Command air refueling group with KC-135 aircraft; an ACC combat communications group; a special operations flight with EC-137D aircraft; an Air National Guard bomb wing with B-1B aircraft; and an Air Force recruiting group.

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE GEORGIA	4. COMMAND: AIR FORCE MATERIEL COMMAND:	5. AREA CONST COST INDEX 0.82

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 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROBINS AIR FORCE BASE, GEORGIA	AIRCRAFT RAMP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72896	113-321	UHHZ003009	15,000

9. COST ESTIMATES

ITEM	I/M	QUANTITY	UNIT	COST
AIRCRAFT RAMP				13,558
CONCRETE RAMP	SM	153,661	51	(7,837)
BLAST FENCE, ENDWALLS, & FOUNDATION	LM	640	980	(627)
ASPHALT SHOULDER	SM	18,000	16	(288)
BASE/SUBBASE	SM	171,661	28	(4,807)
SUPPORTING FACILITIES				45
DEMOLITION OF TAXIWAY	SM	1,000	45	(45)
SUBTOTAL				13,603
CONTINGENCY (5.0 %)				680
TOTAL CONTRACT COST				14,284
SUPERVISION, INSPECTION AND OVERHEAD (5.7 %)				814
TOTAL REQUEST				15,098
TOTAL REQUEST (ROUNDED)				15,000

10. Description of Proposed Construction: Construct a concrete ramp (depth varies from 8 - 10 inches) with 4 inch thick asphalt shoulder to support additional parking for the Functional Test process. Install a continuous aircraft jet engine exhaust metal blast fence and end wall barrier at the edge of the new ramp and provide interface for a follow-on fuel hydrant project. Demolish a portion of the existing concrete taxiway in the way of construction.

11. REQUIREMENT: LS ADEQUATE: LS SUBSTANDARD: LS

PROJECT: Construct Aircraft Ramp. (Current Mission)

REQUIREMENT: An expansion to the existing functional test ramp is required to improve the aircraft overhaul processes by increasing ramp space and expanding the blast fence capabilities in the functional test area yielding increased processing efficiency, more effective use of production resources, and increased available time for additional aircraft throughput. Each test spot will have the required space and equipment to service any type or size of aircraft undergoing Programmed Depot Maintenance (PDM) at Robins AFB. The expanded parking area will provide additional space between aircraft and provide a safer work environment for the workers. A continuous metal blast fence and end wall barrier is needed for the functional test area to insure all parking spots Ire capable of conducting engine run tests for any given aircraft. The blast fence and end wall barrier will ensure compliance with environmental standards by providing noise deflection and eliminating the possibility of soil erosion.

CURRENT SITUATION: Existing aircraft ramp space is inadequate to accommodate the number and size of aircraft that must undergo functional flight-testing prior to completion of their PDM activities. Because of the restricted size of the functional test area the required wing-tip clearance for parked aircraft is often not obtainable and waivers to the criteria are required. Aircraft parked with less than the required clear space must be moved before some PDM work can be accomplished. When adequate ramp space or

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROBINS AIR FORCE BASE, GEORGIA	(AIRCRAFT RAMP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72896	113-321	UHHZ003009	15,000

learance is not available the aircraft and support equipment must be towed roughly 1.6 iles to another location for PDM operations. Personnel and their toolboxes must also e transported to this area until PDM repair operations are completed. The limited ramp pace available is currently cluttered with equipment. Taxiing or towing of any ircraft in this restricted space can lead to damage of the equipment or aircraft. urrently the limited number of test spaces does not allow for any flexibility in the est schedule and increases the functional test process flow days by 15% for cargo ircraft. An existing C-130 functional test area (known as Line 9) is located on an xisting taxiway in the way of the new expansion. The current work at Line 9 will be oved to the new functional test area.

MPACT IF NOT PROVIDED: Personnel and processes will continue to undergo unnecessary cheduling conflicts and inefficiencies. The rigid ramp configuration will continue to xact unnecessary delays and increase PDM flow days. Further, the inability to mplement workload changes between aircraft systems will continue to be impaired.

DDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32- .084, "Facility Requirements." An economic analysis has been prepared comparing the lternatives of new construction, and status quo operation. Based on the net present alues and benefits of the respective alternatives, new construction was found to be the ost cost efficient over the life of the project. Base Civil Engineer: Col Linden J. orchia, (478) 926-3093. Concrete Ramp: 153,661 SM = 1,650,000 SF; Blast Fence/Endwalls: 40 LM = 2100 LF; Asphalt Shoulder: 18,000 SM = 193,700 SF. Design Build - Design Costs (4% of Subtotal Cost): $545,000.

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

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ROBINS AIR FORCE EASE, GEORGIA	AIRCRAFT RAMP

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
72896	113-321	UHHZ003009	15,000

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 407

(4) Construction Contract Award 04 DEC

(5) Construction Start 05 JAN

(6) Construction Completion 06 MAR

(7) Energy Study/Life-Cycle analysis was/will be performed NO

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

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
HICKAM AIR FORCE BASE HAWAII	PACIFIC AIR FORCES	1.55

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 03	1157	5,132	3,215	0	0	0	0	0	1,234	10,73
END FY 2008	1126	4,939	3,020	0	0	0	0	0	1234	10,31

7. INVENTORY DATA ($000)

Total Acreage: 2 , 8 5 1

Inventory Total as of : (30 Sep 03)	4,722,03
Authorization Not Yet in Inventory:	79,65
Authorization Requested in this Program:	25,90
Authorization Included in the Following Program: (FY 2006)	44,50
Planned in Next Three Years Program:	188,69
Remaining Deficiency:	432,15
Grand Total:	5,492,92

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2005)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN STATUS START	COMPL
442-758	C-17 Alter Maintenance/Supply Areas	9,357	SM	9,000	Feb-03	Sep-04
116-672	C-17 Clear Water Rinse	1	LS	4,300	Feb-03	Sep-04
422-253	C-17 Munitions Storage	507	SM	1,950	Feb-03	Sep-04
211-152	C-l 7 Maintenance Shop Facility	2,439	SM	8,200	Design-Build	
842-245	C-17 Support Utilities, Phase II	4,050	LM	2,450	Feb-03	Sep-04
			Total	25,900		

9a. Future Projects: Included in the Following Program: (FY2006)

851-147	C-l 7 Complex Access/Prkg/Area Impr	1	LS	7,900
731-142	Fire Station/Crash Rescue & Satellite Statio	3,459	SM	13,600
812-225	Upgrade Electrical Distribution System	1	LS	23,000
			Total	44,500

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

		SCOPE		COST
61 O-284	Operationalize HQ PACAF Building, Ph 1	26,450	SM	23,000
141-786	Joint Mobility Complex (PACAF/AMC)	8,436	SM	28,941
113-321	Repair Airfield Pavement, Ph 3	125,354	SM	22,000
141-181	Homeland Defense Fighter Alert Facility	3,716	SM	24,000
113-321	Realign Aircraft Parking Ramp, Phase 1	41,000	SM	15,000
422-264	Munitions Maintenance Complex	1	LS	34,853
832-266	Repair Sewer Mains	1,417	LM	7,000
211-152	C-l 7 Home Station Check Acft Hangar	4,366	SM	24,100
740-674	ADAL Fitness Center w/HAWC, Ph 1 of 2	1	LS	9,800
			Total	188,694

9c. Real Propery Maintenance Backlog This Installation ($M) 12;

10. Mission or Major Functions: The host air base wing supports C-l 35B/C aircraft and hosts Headquarters, Pacific Air Forces. The installation also hosts an Air National Guard wing consisting of an F-15A/B squadron, an air refueling squadron (KC-l 35), and an airlift squadron (C-l 30H). 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

orm 1390, 24 Jul 00

1. COMPONENT	PY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE, HAWAII	C-l? UTILITIES SUPPORT, PHASE 2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	842-245	KNMD033008A	2,450

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
C-17 SUPPORT UTILITIES, PHASE 2				1,070
PRIMARY WATER DISTRIBUTION LINES	LM	1,500	30	(45)
STORM DRAIN LINES	LM	1,150	150	(173)
STORM DRAIN CULVERT	LM	1,400	225	(315)
AIRFIELD PAVEMENTS	SM	7,500	96	(720)
MANHOLES, INLET BOXES, VALVES AND TRENCHING	LS			(625)
SUPPORTING FACILITIES				297
SITE IMPROVEMENTS	SM	5,850	20	(117)
ARCHAEOLOGICAL MONITORING	LS			(30)
SOIL REMEDIATION	LS			(150)
SUBTOTAL				2,175
CONTINGENCY (5.0 %)				109
TOTAL CONTRACT COST				2,203
SUPERVISION, INSPECTION AND OVERHEAD (6.5 %)				148
TOTAL REQUEST				2,432
TOTAL REQUEST (ROUNDED)				2,450

10. Description of Proposed Construction: Excavation, backfill, bedding, compaction, water lines, thrust blocks, valves, valve boxes, asphalt patching, storm drain lines, drain inlets, dewatering, soil remediation, archaeological monitoring, and appurtenances.

11. REQUIREMENT: LS ADEQUATE: LS SUBSTANDARD: LS

PROJECT: C-17 Support Utilities, Phase 2. (New Mission)

REQUIREMENT: Requirements under this construction project include a safe, reliable water distribution system and storm drain lines designed with adequate capacity, security, and dependability to support the C-17 beddown site that includes eight Permanently Assigned Aircraft, maintenance hangars, training facilities, squadron operations, and administration activities.

CURRENT SITUATION: The proposed site for construction of the C-17 support facilities does not currently contain adequate water capacity to support the new maintenance hangars, training facility, consolidated maintenance complex, and squadron operations structures needed to beddown the C-11 on Hickam APB. The existing water distribution system is just barely sufficient for the current activities (two C-130 "nose dock" hangars, the flight services facilities, the fire station, and the air passenger terminal) and will not suffice for the additional demands of the C-17 structures and activities due to larger demands for domestic water and fire protection. Greater capacity is also needed because of the specialized maintenance that includes: corrosion control on the C-17 aircrafts' composite surfaces (e.g. painting and fabrications) and fire suppression. Storm drainage at the site for C-17 facilities is already at maximum capacity. With the addition of all the new facilities and associated parking, storm

1. COMPONENT	PY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE, HAWAII	C-17 UTILITIES SUPPORT, PHASE 2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	0. PROJECT COST ($000)
41130	042-245	KNMD033008A	2,450

water drainage will have to be increased. This is Phase 2 of a two-phase C-17 utilities support plan.

IMPACT IF NOT PROVIDED: Lack of adequate water supplies to the C-17 beddown site would result in Severe constraints in capabilities to support maintenance of aircraft, fire protection, administration of the squadron, and training of personnel. Inability to provide the facilities described herein would likely delay the activation of the C-17 squadron at Hickam Air Force Base or, at a minimum, severely jeopardize its mission, safety, and efficiency. If the storm drainage system is not addressed, then flooding of the facilities is possible, causing damage and jeopardizing personnel safety and the C-17 squadron's mission.

ADDITIONAL: This project does meet the scope/criteria specified in Air Force Handbook 32-1084, "Facility Requirements." 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 exception has been prepared. BASE CIVIL ENGINEER: Colonel Steven E. Hoarn, 808-449-1660.

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 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
41.R FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE, HAWAII	C-17 UTILITIES SUPPORT, PHASE 2

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	0. PROJECT COST ($000)
41130	042-245	KNMD033008A	2,450

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	Ol-PEB-03
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of 01 JAN 2004	15%
• (d) Date 35% Designed	Ol-SEP-03
(e) Date Design Complete	15-SEP-04
(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	147
(b) All Other Design Costs	73
(c) Total	220
(d) Contract	196
(e) In-house	24

(4) Construction Contract Award	04 DEC
(5) Construction Start	05 JAN
(6) Construction Completion	06 JAN

• 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	PY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HICKAM AIR PORCE BASE, XAWAII	C-17 ALTER MAINTENANCE/SUPPLY AREAS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	442-750	KNMD043007	9,000

9. COST EST11 TES

ITEM	U/M	QUANTITY	UNIT	COST
ALTER MAINTENANCE/SUPPLY AREAS				7,791
METAL SHOP REPAIR	SM	1,584	807	(1,278)
SURVIVAL EQUIPMENT, PARACHUTE SHOP	SM	1,771	1,292	(2,288)
WHEEL AND TIRE SHOP	SM	604	764	(461)
AIRCRAFT PARTS STORE	SM	1,911	807	(1,542)
AVIONICS SHOP	SM	057	743	(637)
PROPULSION SHOP	SM	1,394	850	(1,185)
AEROSPACE GROUND EQUIPMENT	SM	1,236	323	(399)
SUPPORTING FACILITIES				257
UTILITIES	LS			(150)
COMMUNICATIONS	LS			(25)
HAZARDOUS MATERIALS ABATEMENT	LS			(82)
SUBTOTAL				8,048
CONTINGENCY (5.0 %)				402
TOTAL CONTRACT COST				8,450
SUPERVISION, INSPECTION AND OVERHEAD (6.5 %)				549
TOTAL REQUEST				9,000
TOTAL REQUEST (ROUNDED)				9,000

LO. Description of Proposed Construction: Alter maintenance shops and supply areas in two existing warehouses, update electrical, fire suppression/detection and mechanical systems; incorporate energy conservation measures; perform hazardous materials abatement and necessary support

Air Conditioning: 139 Tons

11. REQUIREMENT: 30,880 SM ADEQUATE: 17,499 SM SUBSTANDARD: 13,381 SM

PROJECT: Alter existing maintenance and supply areas for C-17 beddown. (New Mission)

REQUIREMENT: Xickam Air Force Base is scheduled to receive eight C-17 aircraft in PY 36. In order to provide adequate support to the C-17 aircraft, properly sized and configured areas for forward parts storage, an avionic6 electronic counter measure6 (ECM) maintenance shop, an airframe metals repair and fabrication shop, a propulsion systems maintenance shop, a survival equipment and parachute repair shop, and a wheel and tire shop must be provided. These areas also require space for administration, technical orders libraries, secure storage, training space, and latrines.

CURRENT SITUATION: Existing facilities on Hickam APB are inadequate, do not have room to accommodate all of the shops associated with C-17 operations, or currently do not exist to support the C-17 beddown maintenance and supply requirements. External nodifications are not possible due to the historic nature of the hangars. The current existing metals, avionics, survival equipment repair, wheel and tire shop, and parachute shops are unable to support the C-17 requirements in their current configurations.

1. COMPONENT	PY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE, HAWAII	C-17 ALTER MAINTENANCE/SUPPLY AREAS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	442-750	KNMD043007	9,000

ighting is inadequate throughout the areas, the ventilation systems do not function roperly, and space for equipment and work areas are insufficient. The supporting nfrastructure also needs repair and upgrade. The current electrical distribution ystem is overloaded, over 60 years old, and cannot support the additional requirements f the C-17 maintenance equipment, nor can the system be modified to do so. The supply ocation is not weatherproof and needs work to protect C-17 aircraft parts from the lements. This project reconfigures the space so that it is properly distributed, will upport new C-17 requirements, and corrects mechanical, electrical and fire system eficiencies.

MPACT IF NOT PROVIDED: Hickam APB will not be able to properly beddown C-17 aircraft. ull mission capability with the C-17 aircraft will not be reached. Adequate aircraft aintenance on the C-17 cannot be performed in accordance with technical orders or in axi fficient manner resulting in degradation to mission capability. Supply parts will be xposed to leaking roofs and other elements, reducing their life span and generating ossible increased downtime of aircraft.

DDITIONAL: This project meets the criteria/scope specified in "Air Force Handbook 32- ,084, 'Facility Requirements." A preliminary analysis of reasonable options for atisfying this requirement indicates that only one option will meet mission needs. 'herefore, a complete economic analysis was not performed. A certificate of exception as been prepared. BASE CIVIL ENGINEER: Colonel Steven E. Hoarn, 808-449-1660. Alter !-17 Maintenance/Supply Area: 9,239 SM = 99,447 SF.

OINT USE CERTIFICATION: This facility can be used by other components on an "as vailable" basis; however, the scope is based on Air Force requirements.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE, HAWAII	C-17 ALTER MAINTENANCE/SUPPLY AREAS

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	442-750	KNMD043007	9,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	Ol-PEE-03
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of 01 JAN 2004	15%
• (d) Date 35% Designed	Ol-SEP-03
(e) Date Design Complete	15-SEP-04
(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	540
(b) All Other Design Costs	270
(c) Total	810
(d) Contract	675
(e) In-house	135

(4) Construction Contract Award	04 NOV
(5) Construction Start	05 JAN
(6) Construction Completion	06 FEB

• 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 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HICKAM AIR FORCE BASE, HAWAII	4. PROJECT TITLE C-17 CLEAR WATER RINSE	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. COST ($000)
41130	116-672	KNMD053004	4,300

9. COST ESTIMATE

ITEM	U/M	QUANTITY	UNIT	COST
C-17 CLEAR WATER RINSE				2,657
CLEAR WATER RINSE	EA	1	140,000	(140)
AIRFIELD PAVEMENTS AND WASH PAD	SM	9,900	227	(2,247)
EQUIPMENT SHED	SM	10	2,000	(20)
WATER PIPES, VALVES AND TXRUST BLOCKS	LS			(175)
DRAINLINE AND IRRIGATION SYSTEM	LS			(75)
SUPPORTING FACILITIES				1,188
SITE IMPROVEMENTS	SM	27,600	25	(690)
SOIL REMEDIATION	CM	2,000	125	(250)
ARCHAEOLOGICAL MONITORING	LS			(65)
ELECTRICAL LINES, MANHOLES AND TRANSFORMERS	LS			(183)
SUBTOTAL				3,045
CONTINGENCY (5.0 %)				192
TOTAL CONTRACT COST				4,038
SUPERVISION, INSPECTION AND OVERHEAD (6.5 %)				262
TOTAL REQUEST				4,300
TOTAL REQUEST (ROUNDED)				4,300

10. Description of Proposed Construction: Construct drive-through clear-water rinse facility large enough for C-17 aircraft, including pump and nozzle systems, water storage tanks, utilities, rinse water collection and drainage systems, environmental controls and treatment, equipment shed, electrical power, concrete pads. access Pavements, site improvements, soil remediation, and archaeological monitoring.

11. REQUIREMENT: 1 EA ADEQUATE: 0 EA SUBSTANDARD: OEA

PROJECT: Construct clear water rinse facility for C-17 aircraft. (New Mission)

REQUIREMENT: Hickam Air Force Base (AFB) requires facilities to provide fresh water rinses for aircraft returning from flights. Project will supply high pressure water rinses to aircraft. IAW Technical Order 1-1-691, a clear water rinse must be performed after the last flight of each day for aircraft that operate below 915 meters (3,000 feet) in a saltwater environment to reduce corrosion irregardless of time spent in that environment. Aircraft at Xickam AFB will normally operate in a saltwater environment for a portion of each flight.

CURRENT SITUATION: No clear water rinse facility exists on Xickam AFB that can accommodate aircraft the size of a C-17. The aircraft currently based at Hickam AFB include the F-15, the KC-135, and the C-130. Aircraft are now rinsed at the aircraft wash rack and that entails towing the aircraft as well as scheduling a time period to gain access to the rack. Besides being inefficient, current manpower and equipment limitations do not allow scheduling of all aircraft for necessary rinses and washes. Consequently, aircraft are not washed immediately after flights and high rates of corrosion occur. This results in increased corrosion maintenance costs and aircraft

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE, HAWAII	C-17 CLEAR WATER RINSE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	116-672	KNMD053004	4,300

downtime.

IMPACT IF NOT PROVIDED: Increased rates of corrosion and maintenance costs, reduction of aircraft availability, reduction in flying time, and potentially shortened aircraft service life. Unit proficiency and readiness will continue to be adversely affected and aircrew safety may also be jeopardized.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1064, "Facility Requirements." A preliminary analysis of reasonable option satisfying this requirement indicates that only one option will meet mission requirements. Therefore, a complete economic analysis was not performed. The site is located next to an abandoned landfill and soil contamination is to be expected. Additionally, the project site is located in a "high probability" archaeological area. A certificate of exception has been performed, Base Civil Engineer: Colonel Steven E. Xoarn, 808-449-1660. Construct C-17 Clear Water Rinse: 1 EA.

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 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE, HAWAII	C-17 CLEAR WATER RINSE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	6. PROJECT COST ($000)
41130	116-672	KNMD053004	4,300

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	Ol-FEB-03
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of 01 JAN 2004	15%
• (d) Date 35% Designed	Ol-SEP-03
(e) Date Design Complete	15-SEP-04
(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	258
(b) All Other Design Costs	129
(c) Total	387
(d) Contract	344
(e) In-house	43

(4) Construction Contract Award	04 DEC
(5) Construction Start	05 JAN
(6) Construction Completion	06 FEB

* 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 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
AIR FORCE		

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE, HAWAII	C-17 MUNITIONS STORAGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	422-253	KNMD053005	1,950

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
'RIMARY FACILITIES				1,098
C-17 MUNITIONS FACILITY	SM	507	2,165	(1,098)
SUPPORTING FACILITIES				643
SITE IMPROVEMENTS	SM	7,850	20	(157)
ARCHAEOLOGICAL MONITORING	LS			(75
SOIL REMEDIATION	LS			(50
PAVEMENTS	SM	4,500	65	(293
ELECTRICAL DISTRIBUTION AND TRANSFORMER	LS			(30
ANTITERRORISM FORCE PROTECT/SECURITY FENCING	LM	450	85	(38
SUBTOTAL				1,740
CONTINGENCY (5.0 %)				07
TOTAL CONTRACT COST				1,827
SUPERVISION, INSPECTION AND OVERXEAD (6.5 %)				119
TOTAL REQUEST				1,946
TOTAL REQUEST (ROUNDED)				1,950

10. Description of Proposed Construction: Excavation, reinforced foundation, floor slab, pre-formed wall and roof panels, roll-up doors, grounding/lighting protection, fencing, area and security lighting, security alarms and other antiterrorism/force protection measures, soil remediation, archaeological monitoring, and supporting facilities.

11. REQUIREMENT: 2,010 SM ADEQUATE: 1,503 SM SUBSTANDARD: 99 SM

PROJECT: C-17 Munitions Storage. (New Mission)

REQUIREMENT: Provide munitions storage facilities capable of accomplishing C-17 beddown mission requirements, complying with safety guidelines, and conforming to security standards.

CURRENT SITUATION: Munitions storage facilities for C-17 aircraft do not exist at Hickam Air Force Base (AFB). Multiple munitions storage capabilities must be made available for C-17 operations. Beddown of the C-178 at Xickam AFB will require handling/storage of the unique ballistics device set known as the flotation explosive deployment system (FEDS). The FEDS has a periodic rotation requirement as well as a need for multi-year storage capability. In addition, a multi-cubicle magazine storage facility will be required to support bulk storage of various other explosives associated with the new C-17 mission. This facility must be located on Hickam APB to provide rapid response capability and ensure unimpeded contingency support.

IMPACT IF NOT PROVIDED: The deployment of ordnance and munitions is an essential component of the C-17 squadron's mission. Inability to provide a readily accessible, safe, and secure munitions storage facility for the C-176 would severely restrict mission capabilities and functionality. Segregated munitions storage for C-17 deployment allows for the safest and most efficient rotation of stocks, inspection of

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE, HAWAII	C-17 MUNITIONS STORAGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	422-253	KNMD053005	1,950

explosive units, and quick response to mission needs.

ADDITIONAL: This project meets the scope/criteria specified in Air Force Handbook 32-1064, "Facility Requirements." A preliminary analysis of reasonable options for satisfying this requirement indicates that only one option will meet mission needs. Pherefore, a complete economic analysis was not performed. A certificate of exception has been prepared. BASE CIVIL ENGINEER: Colonel Steven E. Hoarn, 808-449-1660. Construct C-17 Munitions Storage: 507 SM = 5,455 SF.

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

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE, XAWAII	C-17 MUNITIONS STORAGE

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	422-253	KNMD053005	1,950

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	01-FEB-03
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of 01 JAN 2004	15%
• (d) Date 35% Designed	Ol-SEP-03
(e) Date Design Complete	15-SEP-04
(f) Energy Study/Life-Cycle analysis was/will be performed	NO

(2) Basis:

(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	AF Definitive

(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	117
(b) All Other Design Costs	58
(c) Total	175
(d) Contract	156
(e) In-house	19

(4) Construction Contract Award	04 DEC
(5) Construction Start	05 JAN
(6) Construction Completion	06 JAN

• 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 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE, HAWAII	C-17 MAINTENANCE SHOP FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	211-152	KNMD053010	8,200

9. COST ESTIE TES

ITEM	U/M	QUANTITY	UNIT	COST
C-17 MAINTENANCE SHOP FACILITY				6,515
NON-DESTRUCTIVE INSPECTION SHOP	SM	372	2,690	(1,001)
PNEUDRAULICS SHOP	SM	483	2,690	(1,299)
ELECTRO ENVIRONMENTAL SHOP	SM	553	2,690	(1,488)
AERO REPAIR/CRASH RECOVERY SHOP	SM	399	2,690	(1,073)
INSPECTION SHOP	SM	632	2,552	(1,613)
ANTITERRORISM/FORCE PROTECTION	SM	2,439	17	(41)
SUPPORTING FACILITIES				818
PAVEMENTS	SM	4,000	65	(260)
SITE IMPROVEMENTS	SM	9,800	22	(216)
SOIL REMEDIATION/ARCHEOLOGICAL MONITORING	LS			(135)
ELECTRICAL LINES, MANHOLES, AND TRANSFORMERS	LS			(110)
SEWER LINES, MANHOLES, AND TRENCXES	LS			(43)
WATER LINES, VALVES, AND BACKFLOW DEVICES	LS			(54)
SUBTOTAL				7,333
CONTINGENCY (5.0 %)				367
TOTAL CONTRACT COST				7,699
SUPERVISION, INSPECTION AND OVERHEAD (6.5 %)				500
TOTAL REQUEST				8,200
TOTAL REQUEST (ROUNDED)				8,200

10. Description of Proposed Construction: Reinforced concrete frame, concrete foundation, floor slab, masonry walls, sloped metal roof, soil remediation, mechanical areas, fire detection/protection, supporting facilities, renewable energy measures, and appurtenances. Facility space to include shops, supervisory spaces, tool cribs, and reference areas.

Air Conditioning: 247Tons

11. REQUIREMENT: 18,424 SM ADEQUATE: 1,356 SM SUBSTANDARD: 15,633 SM

PROJECT: Construct C-17 maintenance shops facility. (New Mission)

WQUIREMENT: Hickam Air Force Base requires a C-17 maintenance shop facility for non-destructive inspection (NDI) of aircraft, which includes inspection maintenance, pneudraulics, electro-environmental, and aero repair shops. The inspection maintenance shop consists of testing areas and laboratory spaces for critical testing technologies and to house sensitive ultrasonic, fluorescent penetrate, magnetic particle, and radiography equipment. The pneudraulics shop is needed to repair and manufacture aircraft components related to pneumatic and hydraulic systems. The electro-snvironmental shop is used to maintain all of the electrical systems, aircraft wiring harnesses, and batteries, as well as the environmental control equipment for personnel on the aircraft. The aero repair (A/R) shop is where large parts are removed from and

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE, HAWAII	C-17 MAINTENANCE SHOP FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	211-152	KNMD053010	8,200

installed on the aircraft. All shops require crane and hoist support to manipulate heavy components, as well as 3-phase electricity and a pressure air system for power tools.

CURRENT SITUATION: Currently Hickam AFB does not have room to accommodate the requirements of these shops for new C-17 operations. Other maintenance shops are to be renovated and expanded within existing confines. Exterior expansion of the existing maintenance shop building is not a viable option since the building is part of the Hickam National Historical Landmark District. Shop space for NDI, electro-environmental, pneudralics, and aero repair, therefore must be accommodated in a new facility.

IMPACT IF NOT PROVIDED: Hickam APB will not be able to properly beddown C-17 aircraft. Aircraft maintenance capability will be degraded likely resulting in degraded aircraft mission capability.

ADDITIONAL: This project meets the scope/criteria specified in Air Force Handbook 32-1084, "Facilities Requirements." 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 exception has been prepared. BASE CIVIL ENGINEER: Colonel Steven E. Hoarn, 808-449-1660. c-17 Maintenance Shop Facility: 2,439 SM = 26,253 SF. Design Build - design cost (3% of subtotal cost): $220,000.

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

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
HICKAM AIR FORCE BASE, HAWAII	C-17 MAINTENANCE SHOP FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41130	211-152	KNMD053010	8,200

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 220

(4) Construction Contract Award 04 NOV

(5) Construction Start 05 JAN

(6) Construction Completion 06 FEB

(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 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
BARKSDALE AIR FORCE BASE LOUISIANA	AIR COMBAT COMMAND	0.89

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
AS OF 30 SEP 03	1107	6203	1239	18	3	1	4	8	142	8,725
END FY 2008	1111	6113	1130	18	3	1	4	8	142	8,530

7. INVENTORY DATA ($000)

a. Total Acreage:	21,844	
b. Inventory Total as of : (30 Sep 03)		1,517,392
c. Authorization Not Yet in Inventory:		15,900
d. Authorization Requested in this Program:		13,800
e. Authorization Included in the Following Program:	(FY 2006)	0
f. Planned in Next Three Years Program:		57,300
g. Remaining Deficiency:		107,700
h. Grand Total:		1,712,092

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2005)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	Replace Dormitory	168 RM	13,800	Design-Build	
		Total	13,800		

9a. Future Projects: Included in the Following Program: (FY2006)

None

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

141-753	Integrated Operations Center	5,650 SM	10,800
721-312	Dormitory	120 RM	8,300
721-312	Dormitory	96 RM	7,200
730-835	Security Forces Squadron Complex	4,342 SM	9,000
171-875	Weapons Load Crew Training Facility	9,450 SM	22,000
		Total	57,300

9c. Real Propery Maintenance Backlog This Installation ($M): 65

10. Mission or Major Functions: Headquarters Eight Air Force; a bomb wing with three B-52 squadrons, one of which is responsible for training for all B-52 combat crews; an Air Force Reserve wing with A-10, AO-10, and B-52 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

DD Form 1390, 24 Jul 00

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BARKSDALE AIR FORCE BASE, LOUISIANA	DORMITORY (168 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27596	721-312	AWUB053100	13,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
DORMITORY (168 RM)	LS			8.740
DORMITORY	SM	5,544	1,545	(8,565)
ANTITERRORISM/FORCE PROTECTION	LS			(175)
SUPPORTING FACILITIES				3,594
UTILITIES	LS			(897)
PAVEMENTS	LS			(405)
SITE IMPROVEMENTS	LS			(392)
DEMOLITION/ASBESTOS ABATEMENT	SM	7,029	265	(1,863)
COMMUNICATION SUPPORT	LM	150	250	(38)
SUBTOTAL				12,334
CONTINGENCY (5.0 %)				617
TOTAL CONTRACT COST				12,951
SUPERVISION, INSPECTION AND OVERHEAD (6.0%)				777
TOTAL REQUEST				13,728
TOTAL REQUEST (ROUNDED)				13,800

10. Description of Proposed Construction: Three-story building with reinforced concrete foundation and floor slabs, insulated exterior masonry walls, standing seam metal roof, utilities, site improvements, and parking, communication support, fire detection/protection, asbestos abatement, demolition of three facilities (7,029 SM), and all other necessary support. Force protection includes reinforced exterior walls and laminated windows.

Air Conditioning: 250 KW.

11. REQUIREMENT: 997 RN ADEQUATE: 829 RM SUBSTANDARD: 168 RM

PROJECT: Construct a Dormitory (168 RM). (Current Mission)

REQUIREMENT: A major Air Force objective provides unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation, and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform. The retention of these highly trained airmen is essential to our readiness posture and continuing world-wide presence. Complies with DoD force protection construction standards.

CURRENT SITUATION: The base has insufficient on-base housing to accommodate the unaccompanied enlisted (E1 - E4) personnel. This project is prioritized in accordance with the Air Force Dormitory Master Plan.

IMPACT IF NOT PROVIDED: Young airman will continue to live in inadequate living quarters not conducive to a level of privacy or comfort required to maintain morale, productivity, and career satisfaction. The facilities will continue to deteriorate and potentially expose occupants to further health or safety conditions.

ADDITIONAL: This project meets the scope/criteria specified in OSD's design and

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BARKSDALE AIR FORCE BASE, LOUISIANA	DORMITORY (168 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
27596	721-312	AWUB053100	13,000

:onstruction standards for unaccompanied enlisted personnel housing, published *in* Jun)1. All known alternatives were considered during the development of this project. No)ther option could meet mission requirements. Therefore, an economic analysis was not)erformed. FY02 Unaccompanied Housing RPM Conducted: $2,724K; FY03 Unaccompanied lousing RPM Conducted: $2,300K. Future Unaccompanied Housing RPM requirements :estimated): FY04: $2,200; FY05: $1,256K; FY06: $620K. Base Civil Engineer: Lt Col tobert Fant, (318) 456-4056. (Dormitory: 5,544 SM ≈ 59,653 SF)

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

1. COMPONENT AIR FORCE	FY 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE
3. INSTALLATION AND LOCATION TRAVIS AIR FORCE BASE CALIFORNIA	14. COMMAND: AIR MOBILITY COMMAND	5. AREA CONST COST INDEX 1.24

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
AS OF 30 SEP 03	1786	8955	2369	0	0	0	72	698	1158	15,03
END FY 2008	1804	8900	2317	0	0	0	72	698	1158	14,94

7. INVENTORY DATA ($000)

Total Acreage: 6383

nventory Total as of : (30 Sep 03)		3,060,80
Authorization Not Yet in Inventory:		170,16
Authorization Requested in this Program:		15,24
Authorization Included in the Following Program:	(FY 2006)	
Planned in Next Three Years Program:		55,88
Remaining Deficiency:		279,50
Grand Total:		3,581,60

3. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2005)

CATEGORY CODE	PROJECT TITLE	SCOPE		COST $,000	DESIGN START	STATUS CMPL
351-l 47 C-17	Utilities/Roads	1	LS	12,844	Mar 03	Sep 04
211-157 C-l 7	Add Engine Storage Facility	929	SM	2,400	Jan 04	Aug 04
			TOTAL	15,244		

3a. Future Projects: Included in the Following Program: (FY2006)

None

3b. Future Projects: Typical Planned Next Three Years:

141-753 AMOG Deployment Center	9,015	SM	15,000
112-211 Repair Electrical & Runway 03R/21L	1	EA	27,298
171-476 SF Armory/Combat Arms Campus	1,684	SM	3,486
721-312 Dormitory (96 RM)	96	RM	10,100
		TOTAL	55,884

3c. Real Property Maintenance Backlog This Installation ($M) 17(

10. Mission or Major Functions: HQ 15th Air Force; an air mobility wing with two C-5 squadrons and two KC-l 0 air refueling squadrons; an AFRC Associate air mobility wing; and David Grant Medical 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

DD Form 1390, 24 Jul 00

COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
BARKSDALE AIR FORCE BASE, LOUISIANA	DORMITORY (168 RM)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
21596	721-312	AWUB053100	13,800

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 370

(4) Construction Contract Award 05 JAN

(5) Construction Start 05 MAY

(6) Construction Completion 06 DEC

(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 2005 MILITARY CONSTRUCTION PROGRAM	2. DATE

3. INSTALLATION AND LOCATION	4. COMMAND:	5. AREA CONST COST INDEX
ANDREWS AIR FORCE BASE MARYLAND	AIR MOBILITY COMMAND	1.00

6. Personnel Strength	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
AS OF 30 SEP 03	16981	65511	2931							11,18
END FY 2008	1689	66541	2761							11,10

7. INVENTORY DATA ($000)

Total Acreage: 4996

Inventory Total as of : (30 Sep 03)		2,287,72
Authorization Not Yet in Inventory:		170,16
Authorization Requested in this Program:		17,10
Authorization Included in the Following Program:	(FY 2006)	9,70
Planned in Next ThreeFour Years Program:		19,90
Remaining Deficiency:		66,00
Grand Total:		2,570,59

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2005)

CATEGORY CODE	PROJECT TITLE	SCOPE	COST $,000	DESIGN START	STATUS CMPL
112-211	ASA - Alert Aircraft Support Facilities	8,361 SM	5,000	Dec 03	Sep 04
141-183	ASA - Fighter Aircraft Alert Complex	3,698 SM	11,000	Dec 03	Sep 04
422-264	ASA - Munitions Storage Igloo	297 SM	1,100	Dec 03	Sep 04
		TOTAL	17,100		

9a. Future Projects: Included in the Following Program: (FY2006)

61O-284	Mission Support Center, Ph 1	10,219 SM	9,700
		TOTAL	9,700

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

442-758	Consolidated Aircraft Supply Center		19,900
		TOTAL	19,900

9c. Real Property Maintenance Backlog This Installation ($M) 24

10. Mission or Major Functions: An airlift wing flying a variety of fixed wing and rotary aircraft responsible for Presidential support and support of other branches of the Armed Forces and Federal Agencies; Air National Guard Readiness Center; DC Air National Guard F-16 fighter wing; and an Air Force Reserve Command C-141 airlift 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 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDREWS AIR FORCE BASE, MARYLAND	ASA ALERT AIRFIELD SUPPORT FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	112-211	AJXF039162	5,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
ALERT AIRFIELD SUPPORT FACILITIES				3,459
HIGH SPEED TAXIWAY	SM	8,361	120	(1,003)
AIRCRAFT ARRESTING SYSTEM	EA	2	490,000	(980)
REPLACE CIVIL AIR PATROL AREA	SM	388	1,292	(501)
REPLACE STATE POLICE HANGAR AREA	SM	754	1,292	(974)
SUPPORTING FACILITIES				1,072
PAVEMENTS	LS			(270)
UTILITIES	LS			(250)
SITE IMPROVEMENTS	LS			(100)
COMMUNICATION SUPPORT	LS			(120)
TAXIWAY LIGHTS	LS			(100)
DRAINAGE IMPROVEMENTS	LS			(110)
DEMOLITION	SM	1,142	107	(122)
SUBTOTAL				4,531
CONTINGENCY (5.0 %)				227
TOTAL CONTRACT COST				4,758
SUPERVISION, INSPECTION AND OVERHEAD (6.0 %)				285
TOTAL REQUEST				5,043
TOTAL REQUEST (ROUNDED)				5,000

10. Description of Proposed Construction: Fighter Aircraft Alert Complex support Facilities to include PCC pavement for aircraft taxiway/maneuvering area, with taxiway rdge lighting; install aircraft emergency arresting systems at both ends of the west runway with asphalt maintenance access roads. Construct two replacement facilities, masonry sides with standing seam roofs on concrete pads, with partitions and required utilities. Bring airbase utility mains to the new facilities.

Air Conditioning: 50 Tons

11. REQUIREMENT: 1,142 SM ADEQUATE: 0 SM SUBSTANDARD: 1,142 SM

PROJECT: Alert Airfield Support Facilities (New Mission)

REQUIREMENT: Provide Fighter Aircraft Alert Complex supporting facilities for munitions loaded aircraft on alert status for Operation Noble Eagle in support of the North American Aerospace Defence Command (NORAD). The new alert mission was established in response to national strategy requirements to support Homeland Defense capabilities throughout CONUS. These facilities are required to support the permanent Alert Complex to meet around the clock operational readiness based on prevailing world threat conditions. Alert shelter and crew quarters must be centrally located to ensure takeoff criteria within prescribed limits. The Alert Complex will ensure alert status aircraft and crew members will meet Homeland Defence steady state operations. Supporting Facilities must provide direct taxi pavements to the closest runway, emergency aircraft arresting systems with maintenance access roads at both end of the base's west runway.

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDREWS AIR FORCE BASE, MARYLAND	ASA ALERT AIRFIELD SUPPORT FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	112-211	AJXF039162	5,000

'rovide replacement structures elsewhere on the base for facilities to be displaced by ılert complex.

:URRENT SITUATION: Fighter aircraft loaded with live munitions are on alert and parked ›n existing apron to meet operation Noble Eagle mission capabilities. Base facilities lust be demolished and replaced elsewhere to provide an alert complex site. The present ;ite also does not facilitate the fastest possible crew and aircraft response due to ›lacement of support facilities and aircraft taxi time to the end of the runway, which .s presently in excess of two minutes. The replacement site is required to shorten ıircraft alert response time by placing them in more efficient facilities closer to the ›rimary take-off direction end of the runway, and to also meet the explosive quantity-listance requirements for safety. Taxiway pavements are required for direct travel from :he alert site to the takeoff point. The main use (west) runway on the base does not ıave an emergency aircraft arresting system with required maintenance access roads ›osing a risk to both pilot and aircraft in the event of an uncontrolled mission abort ›f landing. The proposed alert facility footprint will require the dislocation of two ıirbase activities (Maryland State Police helicopter unit and Civil Air Patrol) to :eplacement sites which will need new construction and site support.

:MPACT IF NOT PROVIDED: Aircraft will not be able to react in minimum possible time and ıay not be able to launch on-time, potential loss of life, and potential loss of ıircraft and surrounding facilities. Continued risk to civilian and military personnel ınd base property. Fighter aircraft using the west runway will continue to operate at ıigh risk due to absence of aircraft arresting systems at both ends. Potential for loss ›f life and aircraft, and damage to base facilities is high.

ADDITIONAL: All known alternative options were considered during the development of the ›roject. No other option could satisfactorily meet the alert mission requirements. BASE :IVIL ENGINEER: Lt. Col Dennis D. Yates (301) 981-7281

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

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDREWS AIR FORCE BASE, MARYLAND	ASA ALERT AIRFIELD SUPPORT FACILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	112-211	AJXF039162	5,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	10-DEC-03
(b) Parametric Cost Estimates used to develop costs	YES
• (c) Percent Complete as of 01 JAN 2004	15%
* (d) Date 35% Designed	20-MAR-04
(e) Date Design Complete	10-SEP-04
(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	400
(e) In-house	50

(4) Construction Contract Award	04 DEC
(5) Construction Start	05 JAN
(6) Construction Completion	06 JAN

* 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 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDREW AIR FORCE BASE, MARYLAND	ASA FIGHTER AIRCRAFT ALERT COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	141-183	AJXF019187	11,000

9. COST ESTIMATE

ITEM	U/M	QUANTITY	UNIT	COST
FIGHTER AIRCRAFT ALERT COMPLEX				7,505
AIRCRAFT ALERT SHELTERS	SM	3,066	1,571	(4,817)
MISSION CONTROL/PLANNING/CREW QRTS	SM	604	2,659	(1,606)
ENTRY CONTROL FACILITY	SM	20	2,321	(65)
AIRCRAFT SHELTER APRON	SM	8,695	117	(1,017)
SUPPORTING FACILITIES				2,386
UTILITIES/EMERGENCY BACK-UP POWER	LS			(310)
FACILITY ACCESS ROADWAYS AND PAVEMENTS	LS			(145)
SECURITY FENCING/LIGHTS	LS			(210)
FIRE PROTECTION	EA	6	250,000	(1,500)
COMM SUPPORT	LS			(98)
DEMOLISH EXISTING FACILITIES IN FOOTPRINT	SM	1,142	108	(123)
SUBTOTAL				9,891
CONTINGENCY (5.0 %)				495
TOTAL CONTRACT COST				10,386
SUPERVISION, INSPECTION AND OVERHEAD (6.0 %)				623
TOTAL REQUEST				11,009
TOTAL REQUEST (ROUNDED)				11,000

10. Description of Proposed Construction: Fighter Aircraft Alert Complex will include six individual alert shelters, aircrew alert quarters, and entry control facility. The alert complex will include additional PCC pavement for aircraft parking and taxiway/maneuvering area as well as new asphalt pavement for the fire response access road. Alert complex support facilities per shelter include alert shelter fire detection and fire suppression system including closed head deluge system with dedicated water supply, piping and pump system; and centralized high expansion foam system with oscillating monitor and storage tank; security requirements include security fencing snd lighting; site improvements; site utilities; and communication support requirements. Air Conditioning: 175 KW.

11. REQUIREMENT: 3,690 SM ADEQUATE: 0 SM SUBSTANDARD: 3,279 SM

PROJECT: Fighter Aircraft Alert Complex (New Mission)

REQUIREMENT: Provide a Fighter Aircraft Complex with direct runway access for the sheltering of munitions loaded aircraft on alert status for Operation Noble Eagle in support of the North American Aerospace Defence Command (NORAD). The new alert mission was established in response to national strategy requirements to support Homeland Defence capabilities throughout CONUS. This permanent Alert Complex will accommodate alert mission fighter aircraft to meet around the clock operational readiness based on prevailing world threat conditions. Alert shelter and crew quarters must be centrally Located to ensure takeoff criteria within prescribed limits. The Alert Complex will ensure alert status aircraft and crew members will meet Homeland Defence steady state

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDREWS AIR FORCE BASE, MARYLAND	ASA FIGHTER AIRCRAFT ALERT COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	141-183	AJXF019187	11,000

operations. The Alert Complex will provide protection in the event of an accident or fuel spill fire to minimize damage to aircraft and base facilities as well as ensure the safety of aircrew members and base personnel. Supporting facilities must provide fighter aircraft mission control and planning, air crew billets for 12 persons, necessary munitions storage, fenced perimeter with electronic sensors and entry control facility, and back-up emergency power.

CURRENT SITUATION: Fighter aircraft loaded with live munitions are on alert and parked on existing apron to meet Operation Noble Eagle mission capabilities. The present site does not facilitate the fastest possible crew and aircraft response due to placement of support facilities and aircraft taxi time to the end of the runway, which is presently in excess of two minutes. The replacement site is required to shorten aircraft alert response time by placing them in more efficient facilities closer to the primary take-off direction end of the runway, and to meet the explosive quantity-distance requirement for safety. Existing alert shelters do not meet minimum Air Force standards for aircrew safety, required crew support facilities, or fire protection. The alert mission must operate under approved airfield and operational waivers. The potential exists for serious aircrew injuries, severe damage to alert mission aircraft, and limits the ability of base personnel to meet operational readiness and alert mission response standards. The base instituted interim administrative procedures for alert mission response, aircraft maintenance operations, logistical support, fire detection, and civil engineering capabilities as a workaround until a permanent Alert Complex with site improvements are provided. The existing site also lacks the PL-2 security facilities to include security fencing, entry control point, and intrusion sensors. The crew quarters consist of temporary trailers that are small and noisy. Site restrictions preclude the relocation of the trailer to a less noisy area. The trailers do not provide for a secure briefing rooms and the proper operational environment.

IMPACT IF NOT PROVIDED: Aircraft will not be able to react in minimum possible time and may not be able to launch on-time, potential loss of life, and potential loss of aircraft and surrounding facilities. Existing operations are performed without complying with the prescribed procedures identified by safety and Air Force Fire Protection instructions to meet Air Force operational requirements. Continued risk to civilian and military personnel and base property. Due to proximity of adjoining shelters, base personnel and multiple aircraft are at risk. Potential *for* loss of life and aircraft, and damage to base facilities, is high.

ADDITIONAL: Antiterrorism/Force protection requirements have been considered in the development of this project. All known alternative options were considered during the development of this project. No other option could satisfactorily meet the alert mission requirements. BASE CIVIL ENGINEER Lt. Col Dennis D.Yates (301) 981-7281

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

1. COMPONENT	FY 2005 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDREWS AIR FORCE BASE, MARYLAND	ASA FIGHTER AIRCRAFT ALERT COMPLEX

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	141-183	AJXF019187	11,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	20-DEC-03
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2004	15%
* (d) Date 35% Designed	20-APR-04
(e) Date Design Complete	25-SEP-04
(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	660
(b) All Other Design Costs	340
(c) Total	1,000
(d) Contract	850
(e) In-house	150

(4) Construction Contract Award	05 JAN
(5) Construction Start	05 FEB
(6) Construction Completion	06 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	FY 2004 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDREWS AIR FORCE BASE, MARYLAND	ASA MUNITIONS STORAGE IGLOO

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	422-264	AJXF039163	1,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES				560
MUNITIONS STORAGE IGLOO	SM	297	0	(0)
MISSILE STORAGE AREA	SM	297	1,884	(560)
SUPPORTING FACILITIES				410
UTILITIES	LS			(75)
PAVEMENTS	LS			(95)
SITE IMPROVEMENTS	LS			(75)
COMMUNICATIONS SUPPORT	LS			(15)
SECURITY IMPROVEMENTS	LS			(150)
SUBTOTAL				970
CONTINGENCY (5.0 %)				48
TOTAL CONTRACT COST				1,018
SUPERVISION, INSPECTION AND OVERHEAD (6.0 %)				61
TOTAL REQUEST				1,079
TOTAL REQUEST (ROUNDED)				1,100

10. Description of Proposed Construction: Construct one earth covered steel arch igloo. Construction will include concrete foundations and floor slabs, steel arch frames and skins, covered with earth. Reinforced concrete end walls with a single steel blast door, security fence, alarms, gates, access roads, utilities, and supporting facilities.

11. REQUIREMENT: 297 SM ADEQUATE: 0 SM SUBSTANDARD : 0 SM

PROJECT: Munitions Storage Igloo (New Mission)

REQUIREMENT: Base requires adequate storage for weapons used by F-16 fighter interceptor aircraft assigned to the CONUS air defense alert and combat air patrol (CAP) on Operation Noble Eagle.

CURRENT SITUATION: The base has insufficient storage capacity to meet the requirement to store munitions for the dual role F-16 wing and the requirement to provide temporary storage for the Noble Eagle CAP. After September 11,2001, air defence alert and Cap uissions were tasked for the 113th Fighter Wing due to base's proximity to Washington, D.C. and other metropolitan areas. There is an increased need to store all-up air-to-air munitions fully ready to be loaded.

IMPACT IF NOT PROVIDED: Fully loaded aircraft are parked on the ramp in violation of safety rules. The storage of the missiles at other locations is not possible, since they would not meet the response time.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084,"Facility Requirements" and is in compliance with the base master plan. BASE CIVIL ENGINEER: Lt. Col Dennis D. Yates (301) 981-7281

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

1. COMPONENT	FY 2004 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
AIR FORCE	(computer generated)	

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
ANDREWS AIR FORCE BASE, MARYLAND	ASA MUNITIONS STORAGE IGLOO

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
41896	422-264	AJXF039163	1,100

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	15-DEC-03
(b) Parametric Cost Estimates used to develop costs	YES
* (c) Percent Complete as of 01 JAN 2003	15%
• (d) Date 35% Designed	20-MAR-04
(e) Date Design Complete	10-SEP-04
(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) t (b) or (d) t (e):	($000)
(a) Production of Plans and Specifications	66
(b) All Other Design Costs	34
(c) Total	100
(d) Contract	90
(e) In-house	10

(4) Construction Contract Award	04 DEC
(5) Construction Start	05 JAN
(6) Construction Completion	05 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