Department of the Air Force

Military Construction Program

Fiscal Year (FY) 2012
Budget Estimates

Justification Data Submitted to Congress
February 2011

Note: An addendum reflecting language changes to the Blanchford-Preston Complex, Phase IV was submitted to Congress in September 2011
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# Department of the Air Force
## Military Construction and Military Family Housing
### Program Summary
#### Fiscal Year 2012

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**Total Military Construction** 1,778,858 1,364,858

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**Subtotal** 84,804 84,804

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**Subtotal** 404,761 404,761

**Total Military Family Housing** 489,565 489,565

**Grand Total Air Force** 2,268,423 1,854,423
## DEPARTMENT OF THE AIR FORCE
### MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2012
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DEFINITIONS OF NEW AND CURRENT MISSION

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

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

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Current Mission TOTAL: $1,082,897 $747,897

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New Mission TOTAL: $515,048 $515,048

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Central Program TOTAL: $101,913 $101,913

Active AF Program TOTAL: $1,699,858 $1,364,858
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| OUTSIDE THE US TOTAL | 349,297 | 349,297 |

| WORLDWIDE | Various | P-341 Unspecified Minor Construction | 20,000 | 20,000 | 195 |
|           |        | P&D - Planning & Design | 81,913 | 81,913 | 197 |
|           |        | WORLDWIDE UNSPECIFIED TOTAL | 101,913 | 101,913 |

| INSIDE THE US TOTAL | 1,246,648 | 913,648 |
| OUTSIDE THE US TOTAL | 349,297 | 349,297 |
| WORLDWIDE UNSPECIFIED TOTAL | 101,913 | 101,913 |

| FY 2012 TOTAL | 1,699,858 | 1,364,858 |
DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 2012

ECONOMIC CONSIDERATIONS
An economic evaluation has been accomplished for all projects costing over $2 million and the results are addressed in the individual DD Forms 1391.

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

ENVIRONMENTAL STATEMENT
In accordance with Section 102(2)(c) of the National Environmental Policy Act of 1969 (PL 91-190), the environmental impact analysis process (EIAP) has been completed or is actively underway for all projects in the Air Force FY 2012 Military Construction Program.

EVALUATION OF FLOOD PLAINS AND WETLANDS
All projects in the program have been evaluated for compliance with Executive Orders 11988, Flood Plain Management, and 11990, Protection of Wetlands, and the Flood Plain Management Guidelines of U.S. Water Resources Council. Projects have been sited to avoid or reduce the risk of flood loss, minimize the impact of floods on human safety, health and welfare, preserve and enhance the natural and beneficial values of wetlands and minimize the destruction, loss or degradation of wetlands.
1. **STATEMENTS ON NATO ELIGIBILITY**

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

2. **STATEMENTS ON COMPLIANCE WITH CONSTRUCTION MANUAL 4210M**

These are in response to the requirement in the FY 1988 Senate Appropriations Conference Report, 100-498, page 1003, and are included in each project justification.

3. **NEW AND CURRENT MISSION ACTIVITIES**

The FY 1989 Senate Appropriations Committee Report, 100-380, pages 10 and 11, identified a requirement to include an exhibit in the budget justification books that displayed required projects in two separate categories: New Mission and Current Mission. The CM (current mission) or NM (new mission) designation, which follows the project on the listing at page 9, identifies each project as new or current mission. Additionally, each justification in Block 11 of the DD Form 1391 indicates whether the project supports a new or current mission.

4. **REAL PROPERTY ADMINISTRATION**

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

5. **METRIC CONVERSION**

The FY 1999 House Appropriation Committee Report, 105-578, page 11, requested the Department to ensure that any Form 1390/1391, which is presented as justification in metric measurement, shall include parenthetically the English measurement. Each DD Form 1391 reflects the metric and English equivalent in block 11.
FY 2012

NON-MILCON FUNDING

Research and Development (RDT&E)    NONE
APPROPRIATIONS LANGUAGE

MILITARY CONSTRUCTION, AIR FORCE

For acquisition, construction, installation and equipment of temporary or permanent public works, military installations, facilities and real property of the Air Force as currently authorized by law $1,364,858,000 to remain available until September 30, 2016: Provided that, of this amount, not to exceed $81,913,000 shall be available for study, planning, design and architect and engineer services, as authorized by law, unless the Secretary of the Air Force determines that additional obligations are necessary for such purposes and notifies the Committees on Appropriations of both Houses of Congress of his determination and the reasons therefor.
1. COMPONENT AIR FORCE
2. DATE

3. INSTALLATION AND LOCATION
   EIELSON AIR FORCE BASE
   ALASKA

4. COMMAND
   PACIFIC AIR FORCES

5. AREA CONSTRUCTION COST INDEX
   2.20

6. PERSONNEL

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<td>1,716</td>
<td>416</td>
<td>2,300</td>
</tr>
<tr>
<td>END FY 2015</td>
<td>169</td>
<td>1,711</td>
<td>419</td>
<td>2,299</td>
</tr>
</tbody>
</table>

7. INVENTORY DATA ($000)

| Total Acreage | 19,790 |
| Authorization Not Yet In Inventory | $68,350 |
| Authorization Requested In This Program | $45,000 |
| Planned in Next Four Program Years | $191,837 |
| Remaining Deficiency | $32,000 |
| Grand Total | $7,218,799 |

8. PROJECTS REQUESTED IN THIS PROGRAM:

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>COST</th>
<th>DESIGN STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CODE</td>
<td>PROJECT TITLE</td>
<td>SCOPE</td>
</tr>
<tr>
<td>721-312</td>
<td>Dormitory (168 RM)</td>
<td>168 RM</td>
</tr>
</tbody>
</table>

9a. FUTURE PROJECTS: TYPICAL PLANNED NEXT FOUR YEARS:

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>422-253</td>
<td>Construct 12 Bay Multi-Cube</td>
</tr>
<tr>
<td>721-312</td>
<td>Dormitory (168 RM)</td>
</tr>
<tr>
<td>721-312</td>
<td>Dormitory (168 RM)</td>
</tr>
<tr>
<td>740-883</td>
<td>Replace Youth Center</td>
</tr>
<tr>
<td>821-117</td>
<td>Auxiliary Heat Plant</td>
</tr>
<tr>
<td>821-117</td>
<td>Repair Central Heat and Power Plant Boilers, Phase 3</td>
</tr>
<tr>
<td>821-117</td>
<td>Repair Central Heat and Power Plant Boilers, Phase 4</td>
</tr>
<tr>
<td>Total</td>
<td>$191,837</td>
</tr>
</tbody>
</table>

9b. REAL PROPERTY MAINTENANCE BACKLOG THIS INSTALLATION ($M) 56

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

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

DD Form 1390, 24 Jul 00
1. COMPONENT: AIR FORCE

2. DATE: (computer generated)

3. INSTALLATION AND LOCATION: EIELSON AIR FORCE BASE, ALASKA

4. PROJECT TITLE: DORMITORY (168 RM)

5. PROGRAM ELEMENT: 27576

6. CATEGORY CODE: 721-312 FTQW083005

7. PROJECT NUMBER: FTQW083005

8. PROJECT COST ($000): 45,000

9. COST ESTIMATES

<table>
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<th>U/M</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>COST ($000)</th>
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<tr>
<td>PRIMARY FACILITY</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DORMITORY</td>
<td>SM</td>
<td>6,384</td>
<td>4,592</td>
<td>( 29,316 )</td>
</tr>
<tr>
<td>SDD &amp; EP ACT 05</td>
<td>LS</td>
<td></td>
<td></td>
<td>( 586 )</td>
</tr>
<tr>
<td>SUPPORTING FACILITIES</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SITE IMPROVEMENTS</td>
<td>LS</td>
<td></td>
<td></td>
<td>( 759 )</td>
</tr>
<tr>
<td>UTILITIES &amp; UTILIDORS</td>
<td>LS</td>
<td></td>
<td></td>
<td>( 913 )</td>
</tr>
<tr>
<td>PAVEMENTS</td>
<td>LS</td>
<td></td>
<td></td>
<td>( 858 )</td>
</tr>
<tr>
<td>COMMUNICATIONS</td>
<td>LS</td>
<td></td>
<td></td>
<td>( 1,366 )</td>
</tr>
<tr>
<td>DEMOLITION</td>
<td>SM</td>
<td>7,944</td>
<td>552</td>
<td>( 4,382 )</td>
</tr>
<tr>
<td>ENVIRONMENTAL REMEDIATION</td>
<td>LS</td>
<td></td>
<td></td>
<td>( 450 )</td>
</tr>
<tr>
<td>PASSIVE FORCE PROTECTION</td>
<td>LS</td>
<td></td>
<td></td>
<td>( 250 )</td>
</tr>
<tr>
<td>SUBTOTAL</td>
<td></td>
<td></td>
<td></td>
<td>38,881</td>
</tr>
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<td>CONTINGENCY (5.0%)</td>
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<td>TOTAL CONTRACT COST</td>
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<td>40,825</td>
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<tr>
<td>SUPERVISION, INSPECTION AND OVERHEAD (6.5%)</td>
<td></td>
<td></td>
<td></td>
<td>2,654</td>
</tr>
<tr>
<td>DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)</td>
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<td></td>
<td></td>
<td>1,555</td>
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<tr>
<td>TOTAL REQUEST</td>
<td></td>
<td></td>
<td></td>
<td>45,033</td>
</tr>
<tr>
<td>TOTAL REQUEST (ROUNDED)</td>
<td></td>
<td></td>
<td></td>
<td>45,000</td>
</tr>
</tbody>
</table>

10. Description of Proposed Construction: Construct a 168 room, three-story dormitory with reinforced concrete foundation and floor slab, masonry walls and roof. Other work includes: site improvements, parking, roadway, arctic utilidor, contaminated soil remediation, all supporting facilities, and the demolition of buildings and other supporting facilities in the way of construction. Dormitory design and building orientation will consider local climate conditions and geographical requirements. This project will comply with DoD anti-terrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 0 Tons Grade Mix: E1-E4 168


PROJECT: Construct a 168 room dormitory. (Current Mission)

REQUIREMENT: This dorm is required to replace dorms rated Tier 1 (unsatisfactory) condition for 168 unaccompanied enlisted personnel currently housed in substandard conditions. The dormitory will be a Dorms-4-Airman configuration with adjacent parking. Dorms-4-Airman is the new standard for the Air Force dormitory construction, which has the goal to provide larger private rooms with private baths, shared common areas including a kitchen, shared social space and laundry in each module. This project is in accordance with the Air Force Dormitory Master Plan.

CURRENT SITUATION: Dorms being replaced were built in 1953 and do not meet the current standard for unaccompanied personnel. Both buildings lack adequate ATF measures, which were not applicable at the time of the design and construction. One of the dorms lacks a fire sprinkler system to protect the occupants and is of
the original dorm 2+2 corridor configuration. The other dorm was renovated in 1995 to come as close as possible to the then-newer 1+1 corridor configuration within the limitations of the original building. A thorough condition and functional assessment of these dormitories noted significant deficiencies, thus renovation to the new dormitory design standards would not be viable within the 70% plant replacement value. In addition, demolition of existing dormitory buildings allows for new construction based on siting constraints and compliance with the Base General Plan.

IMPACT IF NOT PROVIDED: Due to the severe arctic climate of Eielson AFB, it is crucial that the airmen stationed here have a comfortable, high quality residence in which to live. Without this new dormitory, adequate living quarters will continue to be unavailable, resulting in degradation of morale, productivity, and career satisfaction for unaccompanied enlisted personnel. Low morale will contribute to retention difficulties for the Air Force.

ADDITIONAL: This project meets the criteria/scope specified in AFH 32-1084, 'Facility Requirements'. Facility must meet requirements set in UFC 4-010-01, and the January 2006 Unaccompanied Housing Design Guide. An analysis of reasonable options for satisfying this requirement was performed as part of the Dorm Master Plan, which indicated that only one option will meet mission needs. Therefore, a complete economic analysis was not performed. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. FY2009 Unaccompanied Housing RPM Conducted: $6.3M; FY2010 Unaccompanied Housing RPM Conducted: $1.4M; Future Unaccompanied Housing RPM Requirements (estimated): FY2011 = $9.8M; FY2012 = $562K; FY2013 = $565K. Base Civil Engineer: Lt Col Daniel J. Gerdes, (907) 377-5213. Dormitory: 6,384 SM = 68,712 SF.

JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>2. DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR FORCE</td>
<td></td>
</tr>
</tbody>
</table>

**FY 2012 MILITARY CONSTRUCTION PROJECT DATA**

(computer generated)

<table>
<thead>
<tr>
<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EIELSON AIR FORCE BASE, ALASKA</td>
<td>DORMITORY (168 RM)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>27576</td>
<td>721-312</td>
<td>FTQW083005</td>
<td>45,000</td>
</tr>
</tbody>
</table>

12. **SUPPLEMENTAL DATA:**

a. **Estimated Design Data:**

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

(2) **Basis:**

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

(3) All Other Design Costs 1,840

(4) Construction Contract Award 12 FEB

(5) Construction Start 12 MAR

(6) Construction Completion 14 JUN

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

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

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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</thead>
<tbody>
<tr>
<td>FURNISHINGS</td>
<td>3400</td>
<td>2013</td>
<td>1,100</td>
</tr>
</tbody>
</table>
1. COMPONENT
AIR FORCE

2. DATE

3. INSTALLATION AND LOCATION
JOINT BASE ELMENDORF-RICHARDSON
ALASKA

4. COMMAND:
PACIFIC AIR FORCES

5. AREA CONST
COST INDEX
1.82

6. Personnel Strength

<table>
<thead>
<tr>
<th></th>
<th>PERMANENT</th>
<th>STUDENTS</th>
<th>SUPPORTED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OFF</td>
<td>ENL</td>
<td>CIV</td>
</tr>
<tr>
<td>AS OF 30 SEP 10</td>
<td>777</td>
<td>4,396</td>
<td>816</td>
</tr>
<tr>
<td>END FY 2015</td>
<td>776</td>
<td>4,389</td>
<td>836</td>
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</table>

7. INVENTORY DATA ($000)

<p>| |</p>
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Total Acreage:</td>
</tr>
<tr>
<td>b. Inventory Total as of: (30 Sep 10)</td>
</tr>
<tr>
<td>c. Authorization Not Yet in Inventory:</td>
</tr>
<tr>
<td>d. Authorization Requested in this Program:</td>
</tr>
<tr>
<td>e. Planned in Next Four Years Program:</td>
</tr>
<tr>
<td>f. Remaining Deficiency:</td>
</tr>
<tr>
<td>g. Grand Total:</td>
</tr>
</tbody>
</table>

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2012)

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>COST</th>
<th>DESIGN</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CODE</td>
<td>PROJECT TITLE</td>
<td>SCOPE</td>
<td>$,000</td>
</tr>
<tr>
<td>721-312</td>
<td>Brigade Combat Team (Light) Complex (48 RM)</td>
<td>480</td>
<td>$97,000</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CODE</th>
<th>PROJECT TITLE</th>
<th>COST</th>
<th>CMPL</th>
</tr>
</thead>
<tbody>
<tr>
<td>121-111</td>
<td>Construct Fuels Operations Facility</td>
<td>$4,350</td>
<td></td>
</tr>
<tr>
<td>171-475</td>
<td>Quickturn &amp; In - Flight Kitchen Facility</td>
<td>$8,400</td>
<td></td>
</tr>
<tr>
<td>171-621</td>
<td>Joint Regional Fire Training Facility</td>
<td>$6,600</td>
<td></td>
</tr>
<tr>
<td>217-742</td>
<td>Joint Communications Facility</td>
<td>$30,000</td>
<td></td>
</tr>
<tr>
<td>610-249</td>
<td>Joint Base Elmendorf - Richardson HQ Facility</td>
<td>$12,900</td>
<td></td>
</tr>
<tr>
<td>721-312</td>
<td>Dormitory (120 RM)</td>
<td>$32,000</td>
<td></td>
</tr>
<tr>
<td>832-266</td>
<td>Repair Arctic Utilities &amp; Infrastructure</td>
<td>$11,000</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>$105,250</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CODE</th>
<th>PROJECT TITLE</th>
<th>COST</th>
<th>CMPL</th>
</tr>
</thead>
<tbody>
<tr>
<td>121-111</td>
<td>Construct Fuels Operations Facility</td>
<td>$4,350</td>
<td></td>
</tr>
<tr>
<td>171-475</td>
<td>Quickturn &amp; In - Flight Kitchen Facility</td>
<td>$8,400</td>
<td></td>
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<tr>
<td>171-621</td>
<td>Joint Regional Fire Training Facility</td>
<td>$6,600</td>
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<tr>
<td>217-742</td>
<td>Joint Communications Facility</td>
<td>$30,000</td>
<td></td>
</tr>
<tr>
<td>610-249</td>
<td>Joint Base Elmendorf - Richardson HQ Facility</td>
<td>$12,900</td>
<td></td>
</tr>
<tr>
<td>721-312</td>
<td>Dormitory (120 RM)</td>
<td>$32,000</td>
<td></td>
</tr>
<tr>
<td>832-266</td>
<td>Repair Arctic Utilities &amp; Infrastructure</td>
<td>$11,000</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td>$105,250</td>
<td></td>
</tr>
</tbody>
</table>

10. Mission or Major Functions: Joint Base Elmendorf-Richardson is home to the 3rd Wing (3 WG), Headquarters Alaskan Command (ALCOM), Headquarters U.S. Army Alaska, Alaskan NORAD Region (ANR), and 11th Air Force (11 AF). Its mission provides air supremacy, surveillance, worldwide airlift, and agile combat support forces to project global power and global reach; executes continuous training and readiness oversight responsibilities for Army Force Generation in Alaska. It is host to an operations group with squadrons of F-15C/D, E-3B, C-17, F-22A and C-12 aircraft, maintenance, mission support and medical groups, as well as 15 tenant units including the 477th Fighter Group - Air Force Reserve. It comprises three AF total-force wings, two Army Brigades and 55 other tenant units.

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
1. COMPONENT
AIR FORCE

2. DATE
(FY 2012 MILITARY CONSTRUCTION PROJECT DATA)

3. INSTALLATION AND LOCATION
ELMENDORF AIR FORCE BASE, ALASKA

4. PROJECT TITLE
BRIGADE COMBAT TEAM (LIGHT) COMPLEX
(480 RM)

5. PROGRAM ELEMENT
27576

6. CATEGORY CODE
721-312

7. PROJECT NUMBER
FXSB061561

8. PROJECT COST ($000)
97,000

9. COST ESTIMATES

<table>
<thead>
<tr>
<th>ITEM</th>
<th>U/M</th>
<th>QUANTITY</th>
<th>UNIT COST</th>
<th>COST ($000)</th>
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<td>PRIMARY FACILITY</td>
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<td></td>
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<tr>
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<td>74,134</td>
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<td>SDD &amp; EP ACT 05</td>
<td>LS</td>
<td></td>
<td></td>
<td>(72,652)</td>
</tr>
<tr>
<td>SUPPORTING FACILITIES</td>
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<td></td>
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<td>UTILITIES</td>
<td>LS</td>
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<td>9,609</td>
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<td>COMMUNICATIONS</td>
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<td>(1,044)</td>
</tr>
<tr>
<td>PAVING, WALKS, CURBS, AND GUTTERS</td>
<td>LS</td>
<td></td>
<td></td>
<td>(500)</td>
</tr>
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<td>SITE IMPROVEMENTS</td>
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<td></td>
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<td>(1,000)</td>
</tr>
<tr>
<td>REMOVAL</td>
<td>LS</td>
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<td>(5,000)</td>
</tr>
<tr>
<td>DEMOLITION</td>
<td>SM</td>
<td>18,604</td>
<td>111</td>
<td>(2,065)</td>
</tr>
<tr>
<td>SUBTOTAL</td>
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<td>83,743</td>
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<tr>
<td>CONTINGENCY</td>
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<td>(5.0%)</td>
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</tr>
<tr>
<td>TOTAL CONTRACT COST</td>
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<td>SUPERVISION, INSPECTION AND OVERHEAD</td>
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<td>5,715</td>
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<td></td>
<td>(4.0% OF SUBTOTAL)</td>
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<tr>
<td>TOTAL REQUEST</td>
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<td>96,995</td>
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<tr>
<td>TOTAL REQUEST (ROUNDED)</td>
<td></td>
<td></td>
<td></td>
<td>97,000</td>
</tr>
</tbody>
</table>

10. Description of Proposed Construction: Construct a standard design Brigade Combat Team (Light) Complex, Phase 1A. A multi-story building with basement, reinforced concrete foundation and floor slabs, masonry walls, and roof. Install fire protection/detection and utilities systems to include keyless entry, information systems, fire protection and alarm systems, Intrusion Detection System (IDS) installation, and Energy Monitoring Control Systems (EMCS) connection. Supporting facilities include site development, utilities and connections, lighting, paving, parking, walks, curbs and gutters, storm drainage, information systems, landscaping and signage. Heating (gas-fired boilers) will be provided by self-contained systems. Comprehensive interior design services are required. Remediation of contaminated soil and furnishings for all facilities will be accomplished with other appropriations. This project includes the demolition of 18,604 SM. This project will comply with DoD force protection requirements per Unified Facilities Criteria.


PROJECT: Construct a portion of a standard design Brigade Combat Team (Light) Complex. (New Mission)

REQUIREMENT: This project is required by the Army's directive for Fort Richardson, Alaska to support the stationing of a Brigade Combat Team as part of the Army Modular Force/Global Positioning Initiative. This project will provide barracks for 480 enlisted Soldiers to include living and sleeping quarters, baths, storage,service areas.

CURRENT SITUATION: Adequate existing facilities are not available to support this stationing action. All existing facilities suitable for use under this facility category are fully utilized. This project provides essential permanent living
facilities to support the stationing of a Brigade Combat Team (Light) at Joint Base Elmendorf-Richardson, Alaska.

IMPACT IF NOT PROVIDED: If this project is not provided, the Army will not be able to accomplish the permanent stationing of this Brigade Combat Team (Light). Soldiers will continue to live in existing buildings that do not meet the current Army space criteria, and temporary and/or re-locatable buildings which have limited operational capabilities and limited useful life expectancies.

ADDITIONAL: This project meets the criteria scope specified in a standard design Brigade Combat Team (Light) Complex and AFH 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. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. During the past two years, $1,159,663 has been spent on sustainment, restoration and modernization (SRM) (formerly known as Real Property Maintenance) of unaccompanied enlisted personnel housing at Fort Richardson, AK. Upon completion of this multi-phased project and other projects approved through FY 2012, the remaining unaccompanied enlisted permanent party deficit is 909 personnel at this installation. Base Civil Engineer: Col Russ Hula, 907-552-3007. BCT Complex: 17,280 SM = 186,240 SF.

JOINT USE CERTIFICATION: This facility is programmed for joint use with Army; however, it is fully funded by the Air Force, based on funding transferred as part of the establishment of Joint Base Elmendorf-Richardson (JBER).
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA (computer generated)</th>
<th>2. DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR FORCE</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELMENDORF AIR FORCE BASE, ALASKA</td>
<td>BRIGADE COMBAT TEAM (LIGHT) COMPLEX (480 RM)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
</tr>
</thead>
<tbody>
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<td>27576</td>
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12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

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

(2) Basis:
   (a) Standard or Definitive Design - YES
   (b) Where Design Was Most Recently Used - Ft Richardson

(3) All Other Design Costs 3,880

(4) Construction Contract Award 12 FEB

(5) Construction Start 12 MAR

(6) Construction Completion 14 JUN

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

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

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<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
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<td>EC-130H Simulator/Training Operations</td>
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<td>211-159</td>
<td>HC-130J Joint Use Fuel Cell</td>
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   a. Air pollution
      0
   b. Water Pollution
      0
   c. Occupational Safety and Health
      0
   d. Other Environmental
      0

DD Form 1390, 9 Jul 02
**1. COMPONENT**
AIR FORCE

**2. DATE**

**3. INSTALLATION AND LOCATION**
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA

**4. PROJECT TITLE**
EC-130H SIMULATOR/TRAINING OPERATIONS

**5. PROGRAM ELEMENT**
27253

**6. CATEGORY CODE**
171-212 FBNV103006P1

**7. PROJECT NUMBER**

**8. PROJECT COST ($000)**
20,500

**9. COST ESTIMATES**

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**10. Description of Proposed Construction:** Two-story open bay, reinforced concrete foundation, concrete slab, structural steel frame, standing seam metal roof and split-faced block, utilities, pavements (access road, parking, sidewalks), site improvements, landscaping, fire detection/protected, communication, support, back-up generator, asbestos abatement, demolition of one facility (968 SM), passive force protection to include screening walls and traffic gate, fire suppression system with hydrants, and all other necessary support. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

**Air Conditioning:** 200 Tons

**11. Requirement:**

- **EC-130H SIMULATOR & TRAINING OPERATIONS FACILITY:**
  - Adequate: 29115 SM
  - Substandard: 1856 SM

**REQUIREMENT:** Adequate space is required to operate EC-130H simulators for training of Compass Call personnel in support of wing mission requirements. The facility will house one (1) new EC-130H flight deck simulator, one (1) new EC-130H mission crew simulator, and one (1) existing EC-130H mission crew simulator that provide realistic training and accurately replicates the Mission Weapons System (MWS) as required to maintain Compass Call combat effectiveness. Additionally, the 42nd ECS Formal Training Unit (FTU) functions and resources will be consolidated into the facility. The facility provides space for the active simulators, academics, squadron operations, administration, classrooms, training maintenance, and storage.
The Compass Call EC-130H fleet has been stressed to critical levels in support of combat operations and training requirements. A single Compass Call Crew Mission Simulator (CCCMS) exists, but it cannot be upgraded to match spiral aircraft upgrades while maintaining training throughput. Additionally, the EC-130 is the only Limited Supply/High Demand (LS/HD) weapon system without a flight deck simulator. Therefore, all flight deck simulator training requires expenditure of funds for temporary duty to other installations with C-130 simulator training facilities. However, all USAF C-130 simulator training facilities are converting to C-130J and C-130 Avionics Modernization Program (AMP) configurations that will no longer support Compass Call requirements. This will eliminate the only available option for flight deck simulator training. Available flying hours on existing airframes is insufficient to meet home station training requirements and Overseas Contingency Operations. Additional simulator capability and capacity is needed to provide significant airframe relief. There are currently no facilities on the installation that can accept the new EC-130H simulators. Finally, 42 ECS (FTU) operations are currently conducted from 7 geographically separate facilities, thus impacting training effectiveness. This facility will consolidate simulator training and FTU operational functions.

Compass Call will be unable to meet current Overseas Contingency Operation commitments, nor sustain associated training requirements. This situation will not improve without additional simulators or aircraft, and associated required manpower to absorb initial qualification training shortfalls. The wing will continue to spend nearly $1M annually in TDY costs for aircrews to travel to other installations for simulator training. Lack of training capability will increase the number of students in backlog. The absence of additional simulators will continue to place stress on maintenance personnel required to maintain and sustain the already overtaxed airframes.

Impact Analysis:
TDY: A recurring $782,000 annual temporary duty cost liability will continue if the flight deck simulator facility is not constructed.
Flying Hour Offset/Reduction: A coupled, current-block CCCMS and Level D flight deck simulator with appropriate avionics could accurately replicate and improve most existing EC-130H airborne training, to include programmed flight training (PFT), ready aircrew program (RAP), and continuation training (CT). ACC estimates additional simulator capacity will save $22M/yr by offsetting 30% of aircrew flying events at $25,000 per hour.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements" and with the EC-130H Facilities Requirements Plan. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. Therefore, a certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Base Civil Engineer: LtCol Charles D. Perham, (520) 228-3401; (EC-130H Simulator: 4,699 SM = 50,580 SF).

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

1. COMPONENT: AIR FORCE
2. DATE: (computer generated)
3. INSTALLATION AND LOCATION: DAVIS-MONTHAN AIR FORCE BASE, ARIZONA
4. PROJECT TITLE: EC-130H SIMULATOR/TRAINING OPERATIONS
5. PROGRAM ELEMENT: 27253
6. CATEGORY CODE: 171-212 FBNV103006P1
7. PROJECT NUMBER: FBNV103006P1
8. PROJECT COST ($000): 20,500

CURRENT SITUATION: The Compass Call EC-130H fleet has been stressed to critical levels in support of combat operations and training requirements. A single Compass Call Crew Mission Simulator (CCCMS) exists, but it cannot be upgraded to match spiral aircraft upgrades while maintaining training throughput. Additionally, the EC-130 is the only Limited Supply/High Demand (LS/HD) weapon system without a flight deck simulator. Therefore, all flight deck simulator training requires expenditure of funds for temporary duty to other installations with C-130 simulator training facilities. However, all USAF C-130 simulator training facilities are converting to C-130J and C-130 Avionics Modernization Program (AMP) configurations that will no longer support Compass Call requirements. This will eliminate the only available option for flight deck simulator training. Available flying hours on existing airframes is insufficient to meet home station training requirements and Overseas Contingency Operations. Additional simulator capability and capacity is needed to provide significant airframe relief. There are currently no facilities on the installation that can accept the new EC-130H simulators. Finally, 42 ECS (FTU) operations are currently conducted from 7 geographically separate facilities, thus impacting training effectiveness. This facility will consolidate simulator training and FTU operational functions.

IMPACT IF NOT PROVIDED: Compass Call will be unable to meet current Overseas Contingency Operation commitments, nor sustain associated training requirements. This situation will not improve without additional simulators or aircraft, and associated required manpower to absorb initial qualification training shortfalls. The wing will continue to spend nearly $1M annually in TDY costs for aircrews to travel to other installations for simulator training. Lack of training capability will increase the number of students in backlog. The absence of additional simulators will continue to place stress on maintenance personnel required to maintain and sustain the already overtaxed airframes.

Impact Analysis:
TDY: A recurring $782,000 annual temporary duty cost liability will continue if the flight deck simulator facility is not constructed.
Flying Hour Offset/Reduction: A coupled, current-block CCCMS and Level D flight deck simulator with appropriate avionics could accurately replicate and improve most existing EC-130H airborne training, to include programmed flight training (PFT), ready aircrew program (RAP), and continuation training (CT). ACC estimates additional simulator capacity will save $22M/yr by offsetting 30% of aircrew flying events at $25,000 per hour.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements" and with the EC-130H Facilities Requirements Plan. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. Therefore, a certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Base Civil Engineer: LtCol Charles D. Perham, (520) 228-3401; (EC-130H Simulator: 4,699 SM = 50,580 SF).

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

2. DATE

3. INSTALLATION AND LOCATION
   DAVIS-MONTHAN AIR FORCE BASE, ARIZONA

4. PROJECT TITLE
   EC-130H SIMULATOR/TRAINING OPERATIONS

5. PROGRAM ELEMENT
   27253

6. CATEGORY CODE
   171-212

7. PROJECT NUMBER
   FBNV103006P1

8. PROJECT COST ($000)
   20,500

12. SUPPLEMENTAL DATA:
   a. Estimated Design Data:
      (1) Project to be accomplished by design-build procedures
      (2) Basis:
         (a) Standard or Definitive Design - NO
         (b) Where Design Was Most Recently Used -
      (3) All Other Design Costs 820
      (4) Construction Contract Award 12 FEB
      (5) Construction Start 12 MAR
      (6) Construction Completion 14 MAR
      (7) Energy Study/Life-Cycle analysis was/will be performed YES
   b. Equipment associated with this project provided from other appropriations:

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<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCUREMENT APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
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2. DATE  
3. INSTALLATION AND LOCATION  DAVIS-MONTHAN AIR FORCE BASE, ARIZONA  
4. PROJECT TITLE  HC-130J JOINT USE FUEL CELL  
5. PROGRAM ELEMENT  27224  
6. CATEGORY CODE  211-159 FBNV123002  
7. PROJECT NUMBER  8. PROJECT COST ($000)  12,500  
9. COST ESTIMATES  

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10. Description of Proposed Construction: Construct fuel cell hangar and back shops space with structural metal panels and split-face block wainscot, reinforced concrete foundation and floor slab, structural steel frame, and standing seam metal roof. Provide protected space for aircraft fuel system maintenance including fume sensing and alarm system, mechanical ventilation, High-Expansion Foam fire extinguishing system, fire detection/protection, utilities, site improvements, landscaping, parking, concrete hangar aprons, walkways, pavements demolition, and all necessary supporting facilities for a complete and usable facility. This project will comply with DoD antiterrorism/force protection requirements per the Unified Facilities Criteria.

Air Conditioning: 30 Tons

11. Requirement: 9818  Adequate: 4642  Substandard: 0
PROJECT: HC-130J Joint Use Fuel Cell. (New Mission)
REQUIREMENT: Adequate space is required to process HC-130J and rotary aircraft for fuel system maintenance in support of the Personnel Recovery (PR) assets. The hangar will house the fuel cell mission that provides required aircraft maintenance to sustain and increase the readiness of the PR Center of Excellence community. Provide concrete/asphalt tow way from edge of existing ramp to Fuel Cell Hangar for aircraft access.

CURRENT SITUATION: There are currently no facilities on the installation large
ADDITIONAL: This project meets the criteria/scope specified in Military Handbook 1190, Facility Planning and Design Guide and Air Force Handbook 32-1084, Facility Requirements. This project must be designed and executed in accordance with all applicable United States Air Force and Arizona State laws and guidance. Airfield Pavements shall meet the criteria/scope specified in UFC 3-260-01 and all current airfield pavements regulations. A Temporary Airfield Construction Waiver will be required. The project shall require, but is not limited to, the following regulatory permits and fees; 1) Pima County Air Quality Permit, 2) ADEQ Storm Water Pollution Prevention Plan Permit and Notice of Intent, 3) Pima County Asbestos Removal Disposal Permit, 4) Pima County Lead Base Paint Removal Disposal Permit, 5) Native Plant Preservation Plan (NPPP), and 6) Pima County Drainage (Sewer) and Water (Plumbing) Fixture Unit connection fees as applicable. An analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) was done. It indicated there is only one option that will meet the operational requirements: new construction. An economic analysis was not performed, a certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be incorporated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders. Base Civil Engineer: Lt Col Charles D. Perham, (520) 228-3401. Joint Use Fuel Cell: 2,788 SM = 30,000 SF.

JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.
**FY 2012 MILITARY CONSTRUCTION PROJECT DATA**

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<td>PROGRAM ELEMENT</td>
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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 500

(4) Construction Contract Award 12 FEB

(5) Construction Start 12 MAR

(6) Construction Completion 13 SEP

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

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

<table>
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<th>EQUIPMENT NOMENCLATURE</th>
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<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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### 1. COMPONENT
AIR FORCE

### 2. DATE

### 3. INSTALLATION AND LOCATION
LUKE AIR FORCE BASE
ARIZONA

### 4. COMMAND:
AIR EDUCATION AND TRAINING COMMAND

### 5. AREA CONST INDEX
0.98

### 6. Personnel

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<td>3416</td>
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### 7. INVENTORY DATA ($000)

- a. Total Acreage: 5,653
- b. Inventory Total as of: (30 Sep 10) 1,877,776
- c. Authorization Not Yet in Inventory: 64,410
- d. Authorization Requested in this Program: 24,000
- f. Planned in Next Four Years Program: 21,200
- g. Remaining Deficiency: 86,000
- h. Grand Total: 2,073,386

### 8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2012)

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<thead>
<tr>
<th>CATEGORY</th>
<th>COST</th>
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<th>STATUS</th>
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<tbody>
<tr>
<td>CODE</td>
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<tr>
<td>141-753</td>
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<tr>
<td>211-154</td>
<td>F-35 ADAL Aircraft Maintenance Unit</td>
<td>1,453</td>
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<tr>
<td>Total</td>
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### 9a. Future Projects: Typical Planned Next Four Years:

- 131-111 ADAL Communications Facility 14,000
- 141-461 Construct EOC-ICC Facility 7,200
- Total 21,200

### 9b. Real Property Maintenance Backlog This Installation ($M)
121

### 10. Mission or Major Functions:

An F-16 flying training wing which conducts flight and crew chief training for the Combat Air Force, Air Control training and an Air Force Reserve fighter wing.

### 11. Outstanding pollution and Safety (OSHA) Deficiencies:

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

DD Form 1390, 24 Jul 00
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<tr>
<th>ITEM</th>
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<th>QUANTITY</th>
<th>UNIT</th>
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<td>UTILITIES</td>
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<td>ENVIRONMENTAL REMEDIATION</td>
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<td>COMMUNICATION</td>
<td>LS</td>
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<td>SUPERVISION, INSPECTION AND OVERHEAD (5.7%)</td>
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<td>TOTAL REQUEST (ROUNDED)</td>
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<td></td>
<td></td>
<td>6,000</td>
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</table>

9. Description of Proposed Construction: Renovate building and construct a 561 SM addition. Repair existing parking lot. Work will include a sprinkler-equipped addition containing a steel-framed structure with concrete slab and foundation systems. This alteration and addition will increase the existing footprint, to provide critical space for various maintenance functions. Project will demolish 111 SM. Project will comply with DoD Antiterrorism/Force Protection measures per the Unified Facilities Criteria.

Air Conditioning: 38 Tons


11. PROJECT: ADAL Aircraft Maintenance Unit (New Mission)
REQUIREMENT: A larger AMU facility is required to beddown the Joint Strike Fighter (JSF) F-35 aircraft. The F-35 AMU is required to be operational no later than Oct 12 in preparation for aircraft arrival in Apr 13. The new facility will contain a 75 SM vault for classified parts storage, a 10 SM COMSEC vault, unclassified maintenance debrief room, larger conference room, more administrative space, and a larger tool crib.

CURRENT SITUATION: The current AMU facility does not contain adequate space to house a F-35 AMU and all associated functions. The existing tool crib is undersized within the current facility. This facility currently has no classified parts storage or an adequately sized secure communications vault.

IMPACT IF NOT PROVIDED: Without this project in FY12, the required maintenance functions and personnel will not be operationally ready to receive the F-35 aircraft in Apr 13.

ADDITIONAL: The scope for this project was based on AETC/A4 input, Eglin AFB 95%
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA</th>
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<tr>
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<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE</th>
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<tbody>
<tr>
<td>LUKA AIR FORCE BASE, ARIZONA</td>
<td>F-35 ADAL AIRCRAFT MAINTENANCE UNIT</td>
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<table>
<thead>
<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
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<tr>
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Design analysis and drawings for the JSF Squad Operations/AMU/Hangar facility, and Air Force Handbook 32-1084, "Facility Requirements". An economic analysis of reasonable options is being prepared comparing alternatives of status quo, renovation, addition/alteration and new construction. A preliminary analysis indicates that addition/alteration is the most feasible alternative. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: LtCol John D. Thomas, (623) 856-6135. Shop, Aircraft Maintenance, Organizational: 1,453 SM = 15,634 SF (Renovation: 892 SM = 9,598 SF; Addition: 561 SM = 6,036 SF).

**JOINT USE CERTIFICATION:** This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.
<table>
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<tr>
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<table>
<thead>
<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
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<tr>
<td>27597</td>
<td>211-154</td>
<td>AETC120010</td>
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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 240
- (4) Construction Contract Award 12 FEB
- (5) Construction Start 12 MAR
- (6) Construction Completion 13 SEP
- (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
2. DATE — (computer generated)

3. INSTALLATION AND LOCATION — LUKE AIR FORCE BASE, ARIZONA
4. PROJECT TITLE — F-35 SQUADRON OPERATIONS/AIRCRAFT MAINTENANCE UNIT 2

5. PROGRAM ELEMENT — 27597
6. CATEGORY CODE — 141-753
7. PROJECT NUMBER — AETC120011
8. PROJECT COST ($000) — 18,000

9. COST ESTIMATES

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10. Description of Proposed Construction: Construct a combined Squadron Operations and AMU facility. Work will include the construction of a sprinkler-equipped facility containing a steel-framed structure, concrete slab and foundation system, masonry block exterior walls, and standing seam metal roof. The facility will include squadron operations areas and aircraft maintenance areas. 3,000 SM of Aircraft Ground Equipment (AGE) yard will be demolished. Project will comply with DoD Antiterrorism/Force Protection measures per the Unified Facilities Criteria.

Air Conditioning: 160 Tons


PROJECT: Construct F-35 Squadron Operations/Aircraft Maintenance Unit (New Mission)

REQUIREMENT: A consolidated squadron operations and maintenance facility is required to support the beddown of the Joint Strike Fighter (JSF) F-35 aircraft. The operations portion of the facility is required to support the operations squadron. It will contains the space for flight planning, secure air crew briefing and debriefing areas, training, and administration of the squadron. Space must be provided for the storage, care, and issue of flight crew life support system equipment and personal space is required for changing into and out of flight clothing. Flightline maintenance is semi-autonomous and responsible for the launch, service, on-equipment repair, inspection, and recovery of primary mission aircraft. This facility will provide adequate area for maintenance, a tool crib with mezzanine, equipment issue area, classified vault storage area, equipment, and administrative spaces required to support the aircraft and the mission of the
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<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA</th>
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<tbody>
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| 2. DATE      |                                           |

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<td>LUKE AIR FORCE BASE, ARIZONA</td>
<td>F-35 SQUADRON OPERATIONS/AIRCRAFT</td>
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<td>MAINTENANCE UNIT 2</td>
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<th>8. PROJECT COST ($000)</th>
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<tr>
<td>27597</td>
<td>141-753</td>
<td>AETC120011</td>
<td>18,000</td>
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</table>

particular squadron. The facility is required to be operational no later than Jul 2014 in preparation for the second F-35 squadron arrival in Jan 2015. By combining Squadron Operations and AMU into one facility, greater efficiency will occur between operations and maintenance personnel.

**CURRENT SITUATION:** The current AMU and squadron operations facilities are inadequate and outdated to conduct maintenance and operations for the F-35 mission. The operational squadrons are required to work, train, deploy, and fight as independent squadrons. The current squadron operation and maintenance facilities are under-sized and do not contain enough secure space for pilot briefings and for classified parts storage.

**IMPACT IF NOT PROVIDED:** Without this project being executed in FY12, the required maintenance functions and personnel will not be operationally ready to receive the second F-35 squadron in Jan 2015. The operational squadrons are required to work, train, deploy, and fight as independent squadrons. Work-arounds would not allow operational squadrons to be trained together and would significantly impact the mission required to support the F-35 program.

**ADDITIONAL:** The scope and dimensions for this project were based on Eglin AFB 95% design analysis, drawings for the JSF Squad Operations/AMU/Hangar facility, and from Air Force Handbook 32-1084 "Facility Requirements". An economic analysis of reasonable options is being prepared comparing alternatives of status quo, renovation, addition/alteration, and new construction. Preliminary analysis indicates that new construction is the most feasible alternative. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: LtCol John D. Thomas, (623) 856-6135. Squadron Operations/AMU: 3963 SM = 42,657 SF; Covered Outdoor Storage: 319 SM = 3,434 SF.

**JOINT USE CERTIFICATION:** This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.
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<td>12. SUPPLEMENTAL DATA:</td>
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<td>a. Estimated Design Data:</td>
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<td></td>
<td>(b) Where Design Was Most Recently Used -</td>
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<td>(5) Construction Start 12 MAR</td>
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<td>(6) Construction Completion 13 SEP</td>
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<tr>
<td></td>
<td>(7) Energy Study/Life-Cycle analysis was/will be performed YES</td>
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</tr>
<tr>
<td>b. Equipment associated with this project provided from other appropriations:</td>
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<tr>
<td></td>
<td><strong>EQUIPMENT NOMENCLATURE</strong></td>
<td><strong>PROCURING APPROPRIATION</strong></td>
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<tr>
<td></td>
<td>FURNITURE, FIXTURES &amp; EQUIP</td>
<td>3400</td>
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1. **COMPONENT**
   - FY 2012 MILITARY CONSTRUCTION PROGRAM

2. **DATE**
   - AIR FORCE

3. **INSTALLATION AND LOCATION**
   - TRAVIS AIR FORCE BASE
   - AIR MOBILITY COMMAND
   - CALIFORNIA

4. **COMMAND:**
   - AIR MOBILITY COMMAND

5. **AREA CONST COST INDEX**
   - 1.31

6. **Personnel**

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<td>CIV</td>
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7. **INVENTORY DATA ($000)**

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<td>Authorization Requested in this Program:</td>
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<td>Remaining Deficiency:</td>
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<td>Grand Total:</td>
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8. **PROJECTS REQUESTED IN THIS PROGRAM: (FY2012)**

<table>
<thead>
<tr>
<th>CATEGORY CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST ($000)</th>
<th>DESIGN</th>
<th>STATUS</th>
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</thead>
<tbody>
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9a. **Future Projects: Typical Planned Next Four Years:**

- 219-944 Construct BCE Maintenance Shops & Supply Warehouse 12,900
- 740-884 Child Development Center 17,500
- Total 30,400

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

- Total 209

10. **Mission or Major Functions:**

   HQ 15th Air Force; an air mobility wing with two C-5 squadrons and two KC-10 air refueling squadrons; an AFRC Associate air mobility wing; and David Grant Medical Center.

11. **Outstanding pollution and Safety (OSHA) Deficiencies:**

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

DD Form 1390, 24 Jul 00
## 1. COMPONENT
AIR FORCE

## 2. DATE
FY 2012 MILITARY CONSTRUCTION PROJECT DATA

## 3. INSTALLATION AND LOCATION
TRAVIS AIR FORCE BASE, CALIFORNIA

## 4. PROJECT TITLE
DORMITORY (144 RM)

## 5. PROGRAM ELEMENT
41976

## 6. CATEGORY CODE
721-312

## 7. PROJECT NUMBER
XDAT083003

## 8. PROJECT COST ($000)
22,000

### 9. COST ESTIMATES

<table>
<thead>
<tr>
<th>ITEM</th>
<th>U/M</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>COST</th>
</tr>
</thead>
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<td>SUPERVISION, INSPECTION AND OVERHEAD (5.7%)</td>
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<td>TOTAL REQUEST (ROUNDED)</td>
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<td>22,000</td>
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</tbody>
</table>

### 10. Description of Proposed Construction:
Construction of a three-story sprinkler equipped facility with reinforced concrete foundation, floor slabs, concrete masonry unit exterior walls covered with stucco, and standing seam metal roof system. Includes Dorms-4-Airmen modules, laundries, storage, lounge area, communications support, utilities, roads, parking, site improvements, and other required support. Demolishes two facilities (5,520 SM). Complies with DoD antiterrorism/force protection requirements per unified facilities criteria.

Air Conditioning: 180 Tons Grade Mix: E1-E4 144

### 11. Requirement:
997 RM Adequate: 432 RM Substandard: 991 RM

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

**REQUIREMENT:** This project is required to replace Tier 1 dorms. The 2008 Air Force Dorm Master Plan (DMP) defines Tier 1 as inadequate and unservicable. This project will construct a replacement dorm that will provide unaccompanied enlisted personnel with housing conducive to proper rest, relaxation, and personal well-being. Construction will meet force protection criteria, including progressive collapse, blast protection, and standoff distances. This project is in accordance with the 2008 Air Force Dorm Master Plan approved for Travis AFB. The construction of a 144 person dorm will allow the demolition of two unserviceable dormitories.

**CURRENT SITUATION:** The 2008 DMP established the need for four replacement dormitories at Travis AFB. The dormitories being replaced were constructed in the mid 1950s and renovated in the late 1990s. They are in poor condition and do not meet room size and configuration based on current Air Force grade allowances. Interior partitions are damaged, interior finishes are worn, plumbing fixtures are beyond their useful life, the electrical power distribution system is inadequate and unable to meet current load demands, and the fire alarm system requires replacement. These buildings do not meet force protection requirements including...
progressive collapse, blast protection, and standoff distances. Renovation costs to meet these standards are so high that the 2008 DMP recommends new construction as the most cost-effective and feasible solution.

**IMPACT IF NOT PROVIDED:** Adequate living quarters which provide a level of privacy required for today’s airmen will not be available, resulting in degradation of morale, productivity, and career satisfaction for unaccompanied enlisted personnel. The retention of these highly trained personnel is essential to the readiness posture and continuing world-wide responsibilities of the Air Force. Travis will continue to have substandard living conditions for our airmen living in the dormitories.

**ADDITIONAL:** This project meets the criteria/scope specified Air Force Handbook 32-1084, "Facility Requirements", and in the Air Force Dormitory Design Guide. An economic analysis has been prepared which compares the reasonable alternatives of new construction/replacement, addition/repair, and status quo. Based on net present values and benefits of the respective alternatives, new construction was determined to be the most cost-effective option. Sustainable principles will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive orders. FY2009 Unaccompanied Housing RPM Conducted: $1.8M. FY2010 Unaccompanied Housing RPM Conducted: $4.3M. Future Unaccompanied Housing RPM Requirements (estimated): $7.4M. Base Civil Engineer: Lt Col D. Wade Lawrence, (707) 424-2429. Dormitory (144 RM): 4,752 SM = 51,150 SF.

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

2. DATE

3. INSTALLATION AND LOCATION: TRAVIS AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE: DORMITORY (144 RM)

5. PROGRAM ELEMENT: 41976

6. CATEGORY CODE: 721-312

7. PROJECT NUMBER: XDAT083003

8. PROJECT COST ($000): 22,000

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: 880

(4) Construction Contract Award: 12 FEB

(5) Construction Start: 12 MAR

(6) Construction Completion: 13 SEP

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

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

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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<td>FURNISHINGS</td>
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<td>1,000</td>
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1. COMPONENT: MILITARY CONSTRUCTION PROGRAM
2. DATE

INSTALLATION AND LOCATION: VANDENBERG AIR FORCE BASE
COMMAND: AIR FORCE SPACE
CALIFORNIA

5. AREA CONST: AIR FORCE SPACE

6. Personnel:

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<tr>
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<th>STUDENTS</th>
<th>SUPPORTED</th>
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<td></td>
<td>OFF</td>
<td>ENL</td>
<td>CIV</td>
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<tr>
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<td>212</td>
<td>1155</td>
<td>924</td>
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<tr>
<td>END FY 2015</td>
<td>195</td>
<td>1155</td>
<td>920</td>
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7. INVENTORY DATA ($000):

- Total Acreage: 118,312
- Inventory Total as of: (30 Sep 10) 1,549,564
- Authorization Not Yet in Inventory: 13,000
- Authorization Requested in this Program: 14,200
- Planned in Next Four Years Program: 28,550
- Remaining Deficiency: 401,000
- Grand Total: 2,006,314

8. PROJECTS REQUESTED IN THIS PROGRAM:

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<th>DESIGN</th>
<th>STATUS</th>
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<td>SCOPE</td>
<td>$,000</td>
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<td>730-441</td>
<td>Education Center</td>
<td>3,566 SM</td>
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<td>Total</td>
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9a. Future Projects: Typical Planned In Next Four Years:

- 740-674 Fitness Center Addition 3,598 SM 12,100
- 811-147 Emergency Power Plant 10 MW 5,900
- 171-475 Small Arms Range 28 FP 8,800
- 842-245 Water Main - Reservoir to Utah Gate 1,350 LM 1,750

10. Mission or Major Functions: Vandenberg's mission is to defend the United States through exceptional Launch, Range, Expeditionary, and Installation Operations. Vandenberg Air Force Base is headquarters for the 30th Space Wing (30 SW) and 14th Air Force (14 AF). The 30 SW manages Department of Defense space and missile testing, and placing satellites into polar orbit from the West Coast, using expendable boosters. 14 AF mission is to control and exploit space for global and theater operations.

11. Outstanding pollution and Safety (OSHA) Deficiencies:

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

DD Form 1390, 24 Jul 00
1. COMPONENT: AIR FORCE  
2. DATE: (computer generated)

3. INSTALLATION AND LOCATION: VANDENBERG AIR FORCE BASE, CALIFORNIA
4. PROJECT TITLE: EDUCATION CENTER

5. PROGRAM ELEMENT: 31476
6. CATEGORY CODE: 730-441
7. PROJECT NUMBER: XUMU033002
8. PROJECT COST ($000): 14,200

9. COST ESTIMATES

<table>
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<tr>
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<th>UNIT</th>
<th>COST ($000)</th>
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<td>UTILITIES</td>
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<td>5.7%</td>
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<td>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</td>
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10. Description of Proposed Construction: Reinforced concrete foundation, split-face concrete masonry walls, steel structural frame and mission tile roof. The new facility will include administrative space, classrooms, learning resource center, computer/engineering laboratories, testing room, auditorium, support areas, handicap access and all necessary work for a complete and usable facility. Includes demolition of one facility (3,643 SM). This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 180 Tons


PROJECT: Construct a base education center. (Current Mission)

REQUIREMENT: Vandenberg Air Force Base requires a consolidated learning center, for the academic and professional development of officers, airmen, and DOD civilian employees in support of Air Force and DOD goals. The complex will include prewired administrative space for the center, office space for five college reps, lecture classrooms, an auditorium equipped with computer LAN connectivity, distance learning classrooms with tele-video satellite feeds, computer-science and engineering laboratories, testing rooms, student break room, video conferencing classroom, storage, learning resource center, and Americans with Disabilities Act (ADA) compliance.

CURRENT SITUATION: The existing education facilities are housed in a campus built in 1959 and comprises of 10 separate buildings at Vandenberg Air Force Base. The current Westwing Education Center is a leased complex that was built fifty years ago as an elementary school for the Lompoc Unified School District (LUSD). These substandard facilities do not provide an encouraging learning environment or room for expansion. The center and five colleges/universities provide extension courses to the base population and offer required Air Force developmental classes. These facilities serve more than 1,360 personnel daily. The Education Center provides...
Air Force training via Distance Learning classes to an average of 600 students annually. The LUSD facilities are beyond their reasonable life cycle. Rusted metal window frames create a security risk for the high valued equipment, such as computers and projection equipment. Classroom lighting is insufficient, access to computer LAN connectivity is limited, and the interior room configuration cannot be used efficiently for the services being provided. Electrical power is inadequate throughout the complex. The mechanical systems are old, deteriorating, and costly to maintain, while providing inefficient heating and air conditioning. The facilities do not conform to energy conservation standards and current electrical codes based on Air Force Occupational Safety and Health. Additionally, the facilities do not meet Americans with Disability Act requirements and the mandated antiterrorism force protection minimum standard requirements. A Business Case Analysis determined it would take an investment over $7.7M to bring the center up to current building codes but concluded that new construction had the lower cost-benefit ratio and was the only way to provide an adequate Education Center facility.

IMPACT IF NOT PROVIDED: In addition to the Education Center being an important force development facility, education opportunities and capabilities are key force retention factors. Without a new facility, base personnel will continue to attend classes in substandard, inefficient and deteriorating facilities, which will have a continued negative impact in quality of life, reducing student productivity and capability to support the base mission. Energy and maintenance costs of deteriorating structures will continue to deplete Air Force resources. The current education center will revert back to Vandenberg AFB ownership at the end of the lease, requiring a significant economic effort to bring the center up to current building codes. If this project is not approved, the AF will continue to pour resources into buildings constructed in 1959 that have had no major upgrades since their construction.

ADDITIONAL: This project meets the scope/criteria specified in Air Force Handbook 32-1084 "Facility Requirements". A Business Case Analysis of reasonable alternatives (status quo, renovation, lease off-base, and new construction) was accomplished and concluded that new construction had the best cost-benefit ratio to meet operational requirements. A full economic analysis is in progress. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project IAW Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: Lt Col Timothy C. Dodge, (805) 606-6855. Base Education Center: 3,566 SM = 38,386 SF.

JOINT USE CERTIFICATION: This project can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.
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<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA (computer generated)</th>
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<td>AIR FORCE</td>
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| 2. DATE      |                                                               |
|--------------|                                                               |

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<th>4. PROJECT TITLE</th>
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<td>EDUCATION CENTER</td>
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<tr>
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<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
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<tr>
<td>31476</td>
<td>730-441</td>
<td>XUMU033002</td>
<td>14,200</td>
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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  568

(4) Construction Contract Award  12 FEB

(5) Construction Start  12 MAR

(6) Construction Completion  13 DEC

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

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

<table>
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<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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- **AFTER FORCE**

## 2. DATE

- **FAIR FORCE**

## 3. INSTALLATION AND LOCATION

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<th>UNITED STATES AIR FORCE ACADEMY</th>
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## 4. AREA COST INDEX

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## 6. INVENTORY DATA ($000)

- **Total Acreage:** 53,276
- **Inventory Total as of:** (30 Sep 10) 429,549
- **Authorization Not Yet in Inventory:** 45,100
- **Authorization Requested in this Program:** 13,400
- **Planned in Next Four Years Program:** 73,200
- **Remaining Deficiency:** 36,000

## 7. PROJECTS REQUESTED IN THIS PROGRAM:

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST $,000</th>
<th>DESIGN</th>
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## 8. REAL PROPERTY MAINTENANCE BACKLOG THIS INSTALLATION: ($M)

- **Total:** 187

## 9. OUTSTANDING POLLUTION AND SAFETY (OSHA DEFICIENCIES):

- **Air pollution** 0
- **Water Pollution** 0
- **Occupational Safety and Health** 0
- **Other Environmental** 0

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DD Form 1390, 24 Jul 00

---

49
2. DATE

3. INSTALLATION AND LOCATION
USAF ACADEMY, COLORADO

4. PROJECT TITLE
CONSTRUCT LARGE VEHICLE INSPECTION FACILITY

5. PROGRAM ELEMENT
86076

6. CATEGORY CODE
730-838

7. PROJECT NUMBER
XQPZ044003

8. PROJECT COST ($000)
13,400

9. COST ESTIMATES

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<th>ITEM</th>
<th>U/M</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>COST ($000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIMARY FACILITIES</td>
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<tr>
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<td>(1,223)</td>
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<tr>
<td>PAVEMENTS</td>
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<td>(3,005)</td>
</tr>
<tr>
<td>COMMUNICATIONS</td>
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<td>CONTINGENCY (5.0%)</td>
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<td>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</td>
<td></td>
<td></td>
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<td>(750)</td>
</tr>
</tbody>
</table>

10. Description of Proposed Construction: Construct a concrete, steel, and concrete masonry unit (CMU) large vehicle inspection station (LVIS) that will include with inspection pits, circulation roads, vehicle parking areas, inspection station and support building, overwatch tower, modification to the existing public road for safe access into the facility, site improvements, storm drainage, and fire suppression. Clean up the skeet range, which will need to be closed. All construction will be accomplished on a 7-foot grid pattern to match the US Air Force Academy international architecture style. Comply with DoD antiterrorism/force protection requirements per unified facilities criteria.

11. Requirement: 900 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Construct Large Vehicle Inspection Facility. (Current Mission)

REQUIREMENT: An adequately sized and configured large vehicle inspection station is required for security inspections of all large vehicles in accordance with antiterrorism/force protection measures and standards. The scope of work will comprise an entry control facility with circulation roads, vehicle parking areas, an LVIS with support building and over watch. Modifications to the existing public road for safe entry into the facility will also be addressed. The LVIS will include inspection pits for two large vehicles (tractor trailers up to 45 tons) and administrative space supporting the inspection operations attached to the LVIS. In addition, the new LVIS must accommodate the new Vehicle Explosion Detection Systems (VEDS) and Under Vehicle Surveillance System (UVSS). The project will include provisions for a fire suppression system and storm water drainage.

CURRENT SITUATION: There are two main gates at the United States Air Force
Academy. The North Gate is primarily used by commuters. The South Gate is primarily used for contractor vehicles, delivery vehicles, and the majority of inbound personally owned vehicular (POV) traffic. All visitors and contractors must use the South Gate where they park at the Pass and Identification facility, meet escorts and obtain passes. Vehicle checks are performed in the far north lane at the South Gate. School buses must also pass through the inspection area. A recent traffic Count recorded 73 vans, 39 small trucks and 18 large vehicles entering the South Gate in a 60-minute peak period. Processing more than four large vehicles at a time causes gridlock and traffic queues extend into the main access road. These queues create delays and, more importantly, leave military and civilian commuters in a vulnerable position on the access road. In addition, security forces personnel are exposed to the elements. Additionally, vehicle search and holding areas standoff distance from on-base facilities is inadequate. Due to these conditions and the high volume of large vehicle traffic, the Security Forces are not able to adequately implement a Large Vehicle Search Program for explosive devices.

**IMPACT IF NOT PROVIDED:** Failure to construct this facility will hinder the installation’s ability to detect and deter the terrorist threat, reduce the effectiveness of existing resources and possibly allow a terrorist device access to the installation. Required security inspection and surge capabilities IAW AT/FP standards do not currently exist and will not in the future. These circumstances will severely hamper the Security Forces ability to protect the United States Air Force Academy, with its primary military and human resources, against sabotage and terrorist attacks. Without the Large Vehicle Inspection Station, security forces personnel and other personnel will not be protected from inclement weather; this large vehicle inspection process will continue in an ineffective/inefficient manner with potentially disastrous results.

**ADDITIONAL:** This project meets the criteria and scope specified in Air Force Handbook (AFH) 32-1084, "Facility Requirements." A preliminary analysis of reasonable options was accomplished and indicates only one option meets operational requirements. Therefore a full economic analysis was not accomplished and a certificate of exception has been completed. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive laws and orders. Base Civil Engineer: Lt Col Mark Russo, (719) 333-2660. Construct Vehicle Search Facility: 900 SM = 9,684 SF.

**JOINT USE CERTIFICATION:** This is an installation utility/infrastructure project and does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project.
# FY 2012 Military Construction Project Data

**1. Component**

Air Force

**2. Date**

(computer generated)

**3. Installation and Location**

USAF Academy, Colorado

**4. Project Title**

Construct Large Vehicle Inspection Facility

**5. Program Element**

86076

**6. Category Code**

730-838

**7. Project Number**

XQPZ044003

**8. Project Cost ($000)**

13,400

**12. Supplemental Data:**

a. Estimated Design Data:

1. Project to be accomplished by design-build procedures

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

3. All Other Design Costs 536

4. Construction Contract Award 12 FEB

5. Construction Start 12 APR

6. Construction Completion 13 OCT

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

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

<table>
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<tr>
<th>Equipment Nomenclature</th>
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<th>Fiscal Year Appropriated or Requested</th>
<th>Cost ($000)</th>
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<tr>
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<td>750</td>
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## 1. COMPONENT
- **Air Force**

## 2. DATE

## 3. INSTALLATION AND LOCATION
- **Dover Air Force Base**
- **Air Mobility Command**
- **Cost Index**: 1.08

## 4. COMMAND:
- **Air Mobility Command**

## 5. AREA CONST

## 6. Personnel

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## 7. INVENTORY DATA ($000)

- a. Total Acreage: 3,400
- b. Inventory Total as of: (30 Sep 10) 1,353,020
- c. Authorization Not Yet in Inventory: 119,685
- d. Authorization Requested in this Program: 2,800
- e. Planned in Next Four Years Program: 46,000
- f. Remaining Deficiency: 72,000
- g. Grand Total: 1,593,505

## 8. PROJECTS REQUESTED IN THIS PROGRAM: (FY2012)

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<th>CODE</th>
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<th>SCOPE</th>
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<th>DESIGN</th>
<th>STATUS</th>
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<td>C-5 Formal Training Unit Facility</td>
<td>560 SM</td>
<td>2,800</td>
<td>Design Build</td>
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9a. Future Projects: Typical Planned Next Four Years:
- 211-179 Aircraft Maintenance Hangar 32,000
- 730-835 Security Forces Complex 14,000
- **Total 46,000**

## 9b. Real Property Maintenance Backlog This Installation ($M): 110

## 10. Mission or Major Functions: An airlift wing with one C-5 squadron, one C-17 squadron; and an AFRC Associate C-5 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
1. COMPONENT: AIR FORCE

2. DATE: (computer generated)

3. INSTALLATION AND LOCATION: DOVER AIR FORCE BASE, DELAWARE

4. PROJECT TITLE: C-5M FORMAL TRAINING UNIT FACILITY

5. PROGRAM ELEMENT: 41119

6. CATEGORY CODE: 171-618 FJXT123000

7. PROJECT NUMBER: FJXT123000

8. PROJECT COST ($000): 2,800

9. COST ESTIMATES:

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<th>UNIT COST</th>
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<td>2,800</td>
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</tbody>
</table>

10. Description of Proposed Construction: Construct new facility to bed down new C-5M Formal Training Unit (FTU) mission. The facility consists of offices, a conference room, Instructor Base Review (IBR) rooms, a break/supply room, mechanical space, restrooms, and hallways. This project will comply with DoD antiterrorism/force protection requirements per the Unified Facilities Criteria.

Air Conditioning: 60 Tons

11. Requirement: 560 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: C-5M Formal Training Unit Facility (New Mission)

REQUIREMENT: The new C-5M FTU facility is required to train/support five C-5M squadrons. The total amount of square footage required for this facility is 560 SM. The breakdown of the total square footage is as follows: Pilot and Flight Engineer Instructor Office (10 personnel) - 116 SM; Flight CC office - 12 SM; Conference Room (for 10 crewmembers) - 56 SM; Four IBR Rooms - 47 SM; Scheduler - 23 SM; Break Room/Supply Room - 42 SM; Mechanical Space/Restrooms/Hallways - 146 SM; Contract Instructor Office (20 individuals) - 116 SM.

CURRENT SITUATION: Congress has approved the modification of 52 C-5 aircraft to C-5Ms. The bases scheduled to receive C-5M aircraft are Dover, Travis, and Westover. Dover was chosen to be the only location for the C-5M FTU. Dover AFB currently does not have an existing facility that is adequate to house the C-5M FTU. Therefore, the situation necessitates the construction of a new facility so that Dover is able to adequately house the C-5M FTU.

IMPACT IF NOT PROVIDED: Without this new facility the C-5M FTU would not have an adequate training facility to fulfill their mission. Continuing to train in an inadequate learning environment could have the following effects: sub-standard training, extended course lengths, student remediation, possible AF Reserve student recall caused by man-day limitations, and potential under-manning due to delayed crewmember replacements.
## FY 2012 MILITARY CONSTRUCTION PROJECT DATA

<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>2. DATE</th>
</tr>
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<tbody>
<tr>
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<thead>
<tr>
<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE</th>
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<tbody>
<tr>
<td>DOVER AIR FORCE BASE, DELAWARE</td>
<td>C-5M FORMAL TRAINING UNIT FACILITY</td>
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<thead>
<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
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<tbody>
<tr>
<td>41119</td>
<td>171-618</td>
<td>FJXT123000</td>
<td>2,800</td>
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</table>

ADDITIONAL: This project meets the scope/criteria specified in Air Force Handbook 32-1084, Facility Requirements. An economic analysis of reasonable options for accomplishing this project (status quo, renovation, and new construction) will be completed. Preliminary analysis indicates that new construction is the only option that will meet mission requirements. Sustainable principles will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Thomas J. Davison, (302) 677-6768. Construct Formal Training Unit Facility: 560 SM = 6,000 SF.

JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.
## FY 2012 MILITARY CONSTRUCTION PROJECT DATA

<table>
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<tr>
<th>1. COMPONENT</th>
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<tr>
<td>DOVER AIR FORCE BASE, DELAWARE</td>
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<th>5. PROGRAM ELEMENT</th>
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<th>8. PROJECT COST ($000)</th>
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<tr>
<td>41119</td>
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<td>FJXT123000</td>
<td>2,800</td>
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### 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 112

4. Construction Contract Award 12 FEB

5. Construction Start 12 MAR

6. Construction Completion 13 MAR

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

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

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
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<td>25</td>
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1. COMPONENT: AIR FORCE
2. DATE
3. INSTALLATION AND LOCATION: PATRICK AIR FORCE BASE, FLORIDA
4. COMMAND: AIR FORCE SPACE COMMAND
5. AREA CONST: 0.95

6. PERSONNEL

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<td>1753</td>
<td>2211</td>
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7. INVENTORY DATA ($000)

- Total Acreage: 2,341
- Inventory Total as of: (30 Sep 10) 344,987
- Authorization Not Yet in Inventory: 173,263
- Authorization Requested in this Program: 79,000
- Planned in Next Four Years Program: 29,000
- Remaining Deficiency: 268,350
- Grand Total: 894,600

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2011)

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<td>Civil Engineering Complex</td>
<td>10,600</td>
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<tr>
<td>730-142</td>
<td>Fire/Crash Rescue Station</td>
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<td>730-839</td>
<td>Relocate Main Gate</td>
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</table>

- 9b. Future Projects: Typical Planned Next Four Years:
  - 610-127 Civil Engineering Complex: 10,600
  - 730-142 Fire/Crash Rescue Station: 10,400
  - 730-839 Relocate Main Gate: 8,000

- 9c. Real Property Maintenance Backlog This Installation: ($M) 105.5

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

11. Outstanding pollution and Safety (OSHA) Deficiencies:

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

DD Form 1390, 24 Jul 00
1. COMPONENT: AIR FORCE

2. DATE (computer generated)

3. INSTALLATION AND LOCATION: PATRICK AIR FORCE BASE, FLORIDA

4. PROJECT TITLE: AIR FORCE TECHNICAL APPLICATIONS CENTER

5. PROGRAM ELEMENT: 35999

6. CATEGORY CODE: 610-281 SXHT053001A

7. PROJECT NUMBER: SXHT053001A

8. PROJECT COST ($000): AUTH: 0 APPN: 79,000

9. COST ESTIMATES

<table>
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<th>QUANTITY</th>
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</tbody>
</table>

10. Description of Proposed Construction: Construct a multi-story facility with concrete pier foundation and reinforced concrete floor slab, concrete walls, structural steel frame and roof system, computer access flooring, fire protection, environmental controls, Sensitive Compartmented Information Facilities (SCIF), Intrusion Detection System (IDS), Air Force Laboratory adjacent to the primary facility, a central utility plant, and a stand alone parking garage for 600 cars. Includes utilities, pavements, site improvements, a pedestrian bridge over South Patrick Drive, relocation of two existing storage magazines from the foot print of new construction and site and all other supporting facilities. Demolish 19,789 SM of facilities. Complies with DoD force protection requirements per unified facilities criteria.

Air Conditioning: 800 Tons

11. Requirement: 48074 Adequate: 0 Substandard: 19789

PROJECT: Construct an Air Force Technical Applications Center. (Current Mission)

REQUIREMENT: Adequate space for calibration/maintenance/storage functions for unique equipment needed to support critical mission operations. Additional space...
**AIR FORCE TECHNICAL APPLICATIONS CENTER**

**Patrick Air Force Base, Florida**

**FY 2012 MILITARY CONSTRUCTION PROJECT DATA**

**1. COMPONENT**: Air Force

**2. DATE**: (computer generated)

**3. INSTALLATION AND LOCATION**: Patrick Air Force Base, Florida

**4. PROJECT TITLE**: Air Force Technical Applications Center

**5. PROGRAM ELEMENT**: 35999

**6. CATEGORY CODE**: 610-281

**7. PROJECT NUMBER**: SXHT053001A

**8. PROJECT COST ($000)**: AUTH: 0 APPN: 79,000

This project will provide administrative functions that will support the technical production, shipping, distribution of seismic equipment, and space for the directorates that implement the overall research and development operations.

**CURRENT SITUATION:** The existing facility was constructed in 1957 utilizing design standards far below current design requirements for protection against frequent and strong coastal hurricanes. The facility is less than 300 feet from the Atlantic Ocean. It is also located less than 85 feet from a primary north-south state highway resulting in serious force protection concerns. Brackish water was used for the masonry mortar resulting in compromised wall strength, and x-ray examination indicates steel wall reinforcing required by the minimal design is often absent altogether. Reconstruction to bring the facility up to minimal facility and anti-terrorism standards is cost prohibitive. AFTAC's role as the sole DoD agency operating and maintaining a global network of nuclear event detection sensors as well as its role on the leading edge of verification technology for future treaties involving nuclear weapons programs has led to significant recent mission growth and realignment which the existing facility cannot accommodate.

**IMPACT IF NOT PROVIDED:** Continued safety, health, and environmental problems plaguing this aging facility will cripple development of verification technology for future treaties involving nuclear weapons programs. The proximity to a major thoroughfare and waterway will continue to expose this critical facility with its cutting-edge technological laboratories and uniquely qualified personnel to risks from man-made and natural hazards. The inadequate facility risks serious impact to nuclear treaty monitoring operations and operations support. Major security risks will result from utilizing multiple alternate secure sites and transporting critical information and material between sites will incur significant administrative overhead.

**ADDITIONAL:** This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." An analysis of reasonable options for accomplishing this project (status-quo, renovation, new construction) indicates that new construction is the most economical solution. Sustainable principles to include Life Cycle Cost-Effective practices will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive orders. Base Civil Engineer: Lt. Col. Brian D. Weidmann, (321) 494-4041. AF Technical Application Center: 25,641 SM = 275,898 SF; AF laboratory: 3,530 SM = 37,982 SF; Central Utility Plant: 2,175 SM = 23,403 SF; Parking Garage: 16,728 SM = 179,993 SF.

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

**Fiscal Year** | **Authorization** | **Appropriation**
---|---|---
2011 | $158M | $79M
2012 | $0M | $79M

**Joint Use Certification:** This project was submitted in the FY11 military construction program for full authorization and appropriation of $158.009M. In the FY11 budget Congress approved full authorization of this project at $158.0M. However; they only provided appropriation of $79M. The remaining appropriation of $79M is requested in the FY12 military construction program.
1. COMPONENT  
**AIR FORCE**  

2. DATE  

3. INSTALLATION AND LOCATION  
PATRICK AIR FORCE BASE, FLORIDA

4. PROJECT TITLE  
AIR FORCE TECHNICAL APPLICATIONS CENTER

5. PROGRAM ELEMENT  
35999

6. CATEGORY CODE  
610-281

7. PROJECT NUMBER  
SXHT053001A

8. PROJECT COST ($000)  
AUTH: 0 APPN: 79,000

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  
      4,754
   
   (4) Construction Contract Award  
      12 FEB
   
   (5) Construction Start  
      12 MAR
   
   (6) Construction Completion  
      14 MAY
   
   (7) Energy Study/Life-Cycle analysis was/will be performed  
      YES

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

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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<td>LABORATORY EQUIPMENT</td>
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<tr>
<td>COMMUNICATION EQUIPMENT</td>
<td>3080</td>
<td>2012</td>
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</table>
1. COMPONENT
   AIR FORCE

2. DATE

3. INSTALLATION AND LOCATION
   FORT RILEY, KANSAS

4. COMMAND:
   AIR COMBAT COMMAND

5. AREA CONST
   COST INDEX
   1.06

6. Personnel
   Strength
   AS OF 30 SEP 10
   END FY 2015

   PERMANENT
   STUDENTS
   SUPPORTED
   TOTAL
   OFF  ENL  CIV  OFF  ENL  CIV  OFF  ENL  CIV

7. INVENTORY DATA ($000)
   a. Total Acreage:
   b. Inventory Total as of: (30 Sep 10)
   c. Authorization Not Yet in Inventory:
   d. Authorization Requested in this Program: 7,600
   e. Planned in Next Four Years Program:
   f. Remaining Deficiency:
   g. Grand Total: 7,600

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2012)
   CATEGORY  COST  DESIGN  STATUS
   CODE   PROJECT TITLE  SCOPE  $,000  START  CMPL
   141-753  Air Support Operations Center  4,000 SM  7,600 Design Build

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

   None

9b. Real Property Maintenance Backlog This Installation:

10. Mission or Major Functions: Fort Riley provides training, readiness, and deployability for three active
    component combat brigades; mobilizes and deploys active and reserve component units; and provides
    effective support for soldiers and families during peace and war.

11. Outstanding Pollution and Safety (OSHA Deficiencies):

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

DD Form 1390, 9 Jul 02
**1. COMPONENT**  
**AIR FORCE**

**2. DATE**  
**(computer generated)**

**3. INSTALLATION AND LOCATION**  
**FT RILEY, KANSAS**

**4. PROJECT TITLE**  
**AIR SUPPORT OPERATIONS CENTER**

**5. PROGRAM ELEMENT**  
**27418**

**6. CATEGORY CODE**  
**141-753 HACC123302**

**7. PROJECT NUMBER**

**8. PROJECT COST ($000)**  
**7,600**

**9. COST ESTIMATES**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>U/M</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>COST ($000)</th>
<th>COST ($000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIMARY FACILITIES</td>
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<tr>
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<td>4,000</td>
<td>1,225</td>
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<td>( 98 )</td>
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<td>( 250 )</td>
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<td>SUBTOTAL</td>
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<td></td>
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<td>6,612</td>
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<tr>
<td>CONTINGENCY (5.0%)</td>
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<tr>
<td>TOTAL CONTRACT COST</td>
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<td>6,943</td>
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<tr>
<td>SUPERVISION, INSPECTION AND OVERHEAD (5.7%)</td>
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<tr>
<td>DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)</td>
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<td></td>
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<tr>
<td>TOTAL REQUEST</td>
<td></td>
<td></td>
<td></td>
<td>7,603</td>
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</tr>
<tr>
<td>TOTAL REQUEST (ROUNDED)</td>
<td></td>
<td></td>
<td></td>
<td>7,600</td>
<td>( 250 )</td>
</tr>
</tbody>
</table>

**10. Description of Proposed Construction:**  
Construct a new Air Support Operations Complex with reinforced concrete foundation and floor slab, standing seam metal roof, utilities, HVAC, pavements, site improvements, fencing, communication support, fire detection/sprinklers, special foundation, landscaping, and all other necessary support. Complex includes administrative office space, equipment maintenance shops, covered equipment storage, and organizational parking. Project will be sited on current helicopter landing pad. Costs of constructing a new helicopter landing pad are included in pavement costs, elevating supporting facilities totals. This project will comply with DoD Antiterrorism/Force Protection Requirements per Unified Facility Criteria.

Air Conditioning: 50 Tons

**11. Requirement:**  
AIR SUPPORT OPERATIONS CENTER (New Mission)

**REQUIREMENT:**  
A facility to support the expansion of the 10 Air Support Operations Squadron (ASOS). Facility will support administrative, operational, training, storage, vehicle and equipment maintenance. Supporting facilities include underground utilities (water, sewer, gas), electric service, loading docks, ramps, parking and access roads, paving, sidewalks, curbs and gutters, sanitary sewer system, storm drainage, information systems, landscaping, and site improvements. Fire Detection System (smoke detection) and sprinklers will be installed throughout the buildings in concurrence with the Unified Facilities Criteria (UFC) 3-600-01, Fire Protection Engineering for Facilities. Accessibility for individuals with disabilities will be provided at the troop assembly/orientation/queing spaces, administration spaces and toilet/shower spaces. Anti-terrorism/Force Protection measure includes stand-off distance, laminated glass, and security lighting. A self-contained heating system (gas fired) will be provided. A new helicopter landing pad (HELI pad) will be included in this project. This option saves...
construction costs and reduces future mission impacts. Comprehensive Interior Design and furnishings related design services are required.

**CURRENT SITUATION:** Current facilities are inadequately sized for new mission requirements. Facilities were built to support current mission requirements. No growth is possible within the confines of the current facilities. Additional space is not available on site due to sloping terrain.

**IMPACT IF NOT PROVIDED:** Significant work arounds will be required with daily mission impacts. Adequate facilities will not be available to perform training, operations, and maintenance functions. Some personnel will have to be housed in facilities not co-located with current facilities. This will result in a loss of communication and coordination which will result in a significant waste of man hours and degrade mission capabilities.

**ADDITIONAL:** This project meets the criteria/scope specified in Air Force Handbook 32-1084. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) was done. It indicated there is only one option that meets operational requirements: new construction. A certificate of exception has been prepared. Sustainable principles, to include life cycle cost-effective practices, will be incorporated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders. Public Works POC: Christina Hill, Phone: 785-239-6653. Air Support Operations Center: 4,000 SM = 43,056 SF

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

2. DATE

3. INSTALLATION AND LOCATION
   FT RILEY, KANSAS

4. PROJECT TITLE
   AIR SUPPORT OPERATIONS CENTER

5. PROGRAM ELEMENT
   27418

6. CATEGORY CODE
   141-753

7. PROJECT NUMBER
   HACC123302

8. PROJECT COST ($000)
   7,600

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 304
       (4) Construction Contract Award 12 FEB
       (5) Construction Start 12 MAR
       (6) Construction Completion 13 SEP
       (7) Energy Study/Life-Cycle analysis was/will be performed YES

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

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Furnish, Fixtures and Equip</td>
<td>3400</td>
<td>2012</td>
<td>250</td>
</tr>
</tbody>
</table>
1. COMPONENT: AIR FORCE

2. DATE

3. INSTALLATION AND LOCATION: Barksdale Air Force Base, Louisiana

4. COMMAND: Air Combat Command

5. AREA CONSTRUCTION COST INDEX: 0.91

6. Personnel Strength

<table>
<thead>
<tr>
<th></th>
<th>PERMANENT</th>
<th>STUDENTS</th>
<th>SUPPORTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Enl</td>
<td>CIV</td>
<td>Off</td>
</tr>
<tr>
<td>As Of 30 Sep 10</td>
<td>1116</td>
<td>6803</td>
<td>1363</td>
</tr>
<tr>
<td>End FY 2015</td>
<td>1097</td>
<td>6745</td>
<td>1324</td>
</tr>
</tbody>
</table>

7. INVENTORY DATA ($000)

a. Total Acreage: 21,844
b. Inventory Total as of: (30 Sep 10) 2,145,311
c. Authorization Not Yet in Inventory: 45,540
d. Authorization Requested in this Program: 23,500
e. Planned in Next Four Years Program: 89,900
f. Remaining Deficiency: 75,700
g. Grand Total: 2,379,951

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2012)

<table>
<thead>
<tr>
<th>CATEGORY CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST,000</th>
<th>DESIGN START</th>
<th>STATUS CMPL</th>
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</thead>
<tbody>
<tr>
<td>610-128</td>
<td>Mission Support Group Complex 7,937 SM 23,500</td>
<td>Jun-10 Sep-10</td>
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</tr>
<tr>
<td></td>
<td>Total 23,500</td>
<td></td>
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</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>CATEGORY CODE</th>
<th>PROJECT TITLE</th>
<th>COST,000</th>
<th>DESIGN START</th>
<th>STATUS CMPL</th>
</tr>
</thead>
<tbody>
<tr>
<td>113-321</td>
<td>Repair Aircraft Apron Pavement, Ph VI</td>
<td>15,500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>131-111</td>
<td>Consolidated Communication Facility, Phase 1</td>
<td>12,200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>219-944</td>
<td>Consolidated Base CE Ops Complex</td>
<td>12,200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>721-312</td>
<td>Dormitory (168 RM)</td>
<td>21,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>730-839</td>
<td>Entrance Road &amp; Gate Complex</td>
<td>11,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>740-674</td>
<td>ADAL Fitness Center</td>
<td>18,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total 89,900</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9b. Real Property Maintenance Backlog This Installation: ($M) 113

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
AIR FORCE

2. DATE
FY 2012 MILITARY CONSTRUCTION PROJECT DATA
(computer generated)

3. INSTALLATION AND LOCATION
BARKSDALE AIR FORCE BASE, LOUISIANA

4. PROJECT TITLE
MISSION SUPPORT GROUP COMPLEX

5. PROGRAM ELEMENT
11898

6. CATEGORY CODE
610-128

7. PROJECT NUMBER
AWUB105002

8. PROJECT COST ($000)
23,500

9. COST ESTIMATES

<table>
<thead>
<tr>
<th>ITEM</th>
<th>U/M</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>COST</th>
</tr>
</thead>
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<tr>
<td>PRIMARY FACILITIES</td>
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<td></td>
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</tr>
<tr>
<td>MISSION SUPPORT GROUP COMPLEX</td>
<td>SM</td>
<td>7,937</td>
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<td>(17,422)</td>
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<td>SDD &amp; EPACT05</td>
<td>LS</td>
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<td></td>
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<tr>
<td>SUPPORTING FACILITIES</td>
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<td>UTILITIES</td>
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<td>(996)</td>
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<td>SITE IMPROVEMENTS</td>
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<td>(332)</td>
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<tr>
<td>DEMOLITION</td>
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<td>COMMUNICATIONS SUPPORT</td>
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<td>(1,400)</td>
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<td>SUBTOTAL</td>
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<td></td>
<td>17,778</td>
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<tr>
<td>CONTINGENCY</td>
<td></td>
<td></td>
<td>(5.0%)</td>
<td>1,060</td>
</tr>
</tbody>
</table>

10. Description of Proposed Construction: Three story steel frame structure with reinforced concrete foundation, floor slabs, reinforced masonry walls/finish system, and sloped metal roof. Wet sprinkler, fire alarm, telephone, and energy monitoring systems are provided for the entire facility. Site construction to include landscaping, parking lot, and access pavements. Project includes demolition of one facility (94 SM). This project will comply with DoD antiterrorism/force protection requirements and Unified Facility Criteria.

Air Conditioning: 700 Tons


PROJECT: Mission Support Group Complex (New Mission).

REQUIREMENT: Adequately sized and properly configured facility to consolidate multiple administrative functions of the 2d Mission Support Group including: 2d Mission Support Group (MSG) Headquarters, 2d Force Support Squadron, 2d Contracting Squadron, Base Personnel Office, and Family Support Center. In addition, the facility will also house the following 2d Bomb Wing (BW) functions: 2d Comptroller Squadron, 2d BW Safety, Retiree Affairs, and 2d BW Legal Affairs Tax Counseling Office.

CURRENT SITUATION: The bed down of AF Global Strike Command (AFGSC) located a total of 873 AFGSC personnel at Barksdale AFB. The facility support plan developed by the Site Activation Task Force (SATAF) involves several facilities and requires a series of relocations to meet final AFGSC space requirements. A new facility is required for 2d MSG and other personnel being displaced from Bldgs 5345 and 5541 by AFGSC requirements. Consolidating 2d MSG and related functions to a new properly sized and configured facility will improve customer access to a variety of personnel services and improve efficiency between functions, while reducing overall space utilization by 22 percent. 2d MSG elements relocated to modular relocatable buildings until the completion of new permanent facilities.
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA</th>
<th>2. DATE</th>
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<tbody>
<tr>
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<td>(computer generated)</td>
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<table>
<thead>
<tr>
<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE</th>
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<tbody>
<tr>
<td>BARKSDALE AIR FORCE BASE, LOUISIANA</td>
<td>MISSION SUPPORT GROUP COMPLEX</td>
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<table>
<thead>
<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
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<tbody>
<tr>
<td>11898</td>
<td>610-128</td>
<td>AWUB105002</td>
<td>23,500</td>
</tr>
</tbody>
</table>

**IMPACT IF NOT PROVIDED:** Inadequate facilities will adversely affect capabilities of 2 MSG resulting from implementation of AFGSC bed down at Barksdale AFB. 2 MSG personnel will continue to occupy temporary facilities until the requested Mission Support Group Complex is constructed.

**ADDITIONAL:** This project meets the criteria/scope specified in Air Force Handbook 32-1084 - Facility Requirements. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction) indicated there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life-Cycle cost effective practices, will be incorporated into the design, development and construction of the project in accordance with Executive Order 13424, 10 USC 2803 (c) and other applicable laws and Executive Orders. Base Civil Engineer: Lt Col David B. Chisenhall, Jr. (318) 456-4856. (Mission Support Group Complex: 7,937 SM = 85,433 SF).

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

2. DATE
FY 2012 MILITARY CONSTRUCTION PROJECT DATA
(computer generated)

3. INSTALLATION AND LOCATION
BARKSDALE AIR FORCE BASE, LOUISIANA

4. PROJECT TITLE
MISSION SUPPORT GROUP COMPLEX

5. PROGRAM ELEMENT
11898

6. CATEGORY CODE
610-128

7. PROJECT NUMBER
AWUB105002

8. PROJECT COST ($000)
23,500

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
   (a) Date Design Started 01-MAY-10
   (b) Parametric Cost Estimates used to develop costs YES
   * (c) Percent Complete as of 01 JAN 2011 15%
   * (d) Date 35% Designed 16-MAR-11
   (e) Date Design Complete 01-SEP-11
   (f) Energy Study/Life-Cycle analysis was/will be performed YES

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

(3) Total Cost (c) = (a) + (b) or (d) + (e): ($000)
   (a) Production of Plans and Specifications 1,410
   (b) All Other Design Costs 705
   (c) Total 2,115
   (d) Contract 1,763
   (e) In-house 353

(4) Construction Contract Award 12 FEB
(5) Construction Start 12 MAR
(6) Construction Completion 14 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:

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCUREMENT APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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<tbody>
<tr>
<td>FURNISHINGS</td>
<td>3400</td>
<td>2012</td>
<td>1,250</td>
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<tr>
<td>COMMUNICATIONS EQUIPMENT</td>
<td>3080</td>
<td>2012</td>
<td>250</td>
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</table>
1. COMPONENT
AIR FORCE

2. DATE

3. INSTALLATION AND LOCATION
WHITEMAN AIR FORCE BASE, MISSOURI

4. COMMAND:
AIR COMBAT COMMAND

5. AREA CONST
COST INDEX
1.04

6. Personnel

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<tr>
<th>Strength</th>
<th>PERMANENT</th>
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<th>SUPPORTED</th>
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<tr>
<td></td>
<td>OFF</td>
<td>ENL</td>
<td>CIV</td>
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<tr>
<td>AS OF 30 SEP 10</td>
<td>440</td>
<td>4271</td>
<td>1061</td>
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<td>END FY 2015</td>
<td>440</td>
<td>4270</td>
<td>1061</td>
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7. INVENTORY DATA ($000)

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<td>Inventory Total as of (30 Sep 10)</td>
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<td>Authorization Requested in this Program</td>
<td>4,800</td>
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<tr>
<td>Planned in Next Four Years Program</td>
<td>90,800</td>
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<tr>
<td>Remaining Deficiency</td>
<td>76,600</td>
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<tr>
<td>Grand Total</td>
<td>4,201,718</td>
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8. PROJECTS REQUESTED IN THIS PROGRAM:

<table>
<thead>
<tr>
<th>CATEGORY CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>DESCRIPTION</th>
<th>COST $,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>730-838</td>
<td>WSA Security Control Facility</td>
<td>418 SM</td>
<td>Design Build</td>
<td>4,800</td>
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9b. Future Projects: Typical Planned Next Four Years:

<table>
<thead>
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<th>CATEGORY CODE</th>
<th>PROJECT TITLE</th>
<th>COST $,000</th>
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</thead>
<tbody>
<tr>
<td>130-142</td>
<td>Crash/Structural Fire Station</td>
<td>13,600</td>
</tr>
<tr>
<td>141-753</td>
<td>Consolidated Air Ops Facility (Ph I&amp;II)</td>
<td>23,500</td>
</tr>
<tr>
<td>721-312</td>
<td>Dormitory (144 RM)</td>
<td>23,000</td>
</tr>
<tr>
<td>730-839</td>
<td>Construct New ECP - Arnold Gate</td>
<td>8,500</td>
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<tr>
<td>740-674</td>
<td>ADAL Fitness Center &amp; HAWC</td>
<td>22,200</td>
</tr>
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</table>

9c. Real Property Maintenance Backlog This Installation: 62

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

11. Outstanding Pollution and Safety (OSHA Deficiencies):

<table>
<thead>
<tr>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Air pollution</td>
<td>0</td>
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<td>b. Water Pollution</td>
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</tr>
<tr>
<td>c. Occupational Safety and Health</td>
<td>0</td>
</tr>
<tr>
<td>d. Other Environmental</td>
<td>0</td>
</tr>
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</table>

DD Form 1390, 9 Jul 02
1. COMPONENT
   AIR FORCE

2. DATE
   FY 2012 MILITARY CONSTRUCTION PROJECT DATA

3. INSTALLATION AND LOCATION
   WHITEMAN AIR FORCE BASE, MISSOURI

4. PROJECT TITLE
   WSA SECURITY CONTROL FACILITY

5. PROGRAM ELEMENT
   27576

6. CATEGORY CODE
   730-838

7. PROJECT NUMBER
   YWHG071005

8. PROJECT COST ($000)
   4,800

9. COST ESTIMATES

<table>
<thead>
<tr>
<th>ITEM</th>
<th>U/M</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>COST</th>
<th>COST ($000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIMARY FACILITIES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WSA SECURITY CONTROL FACILITY</td>
<td>SM</td>
<td>418</td>
<td></td>
<td>4,250</td>
<td>( 1,777)</td>
</tr>
<tr>
<td>SDD &amp; EPACT 05</td>
<td>LS</td>
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<td></td>
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<td>( 36)</td>
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<tr>
<td>SUPPORTING FACILITIES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>UTILITIES</td>
<td>LS</td>
<td></td>
<td></td>
<td></td>
<td>( 499)</td>
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<tr>
<td>PAVEMENTS</td>
<td>LS</td>
<td></td>
<td></td>
<td></td>
<td>( 275)</td>
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<tr>
<td>SITE IMPROVEMENTS</td>
<td>LS</td>
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<td></td>
<td></td>
<td>( 168)</td>
</tr>
<tr>
<td>COMMUNICATION</td>
<td>LS</td>
<td></td>
<td></td>
<td></td>
<td>( 500)</td>
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<tr>
<td>PASSIVE FORCE PROTECTION</td>
<td>LS</td>
<td></td>
<td></td>
<td></td>
<td>( 813)</td>
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<tr>
<td>DEMOLITION</td>
<td>SM</td>
<td>291</td>
<td></td>
<td>75</td>
<td>( 22)</td>
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<tr>
<td>ASPHALT ACCESS ROAD</td>
<td>LS</td>
<td></td>
<td></td>
<td></td>
<td>( 70)</td>
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<td>SUBTOTAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4,159</td>
</tr>
<tr>
<td>CONTINGENCY</td>
<td></td>
<td>(5.0%)</td>
<td></td>
<td></td>
<td>208</td>
</tr>
<tr>
<td>TOTAL CONTRACT COST</td>
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<td>4,367</td>
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<tr>
<td>SUPERVISION, INSPECTION AND OVERHEAD</td>
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<td>(5.7%)</td>
<td></td>
<td></td>
<td>249</td>
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<tr>
<td>DESIGN/BUILD - DESIGN COST</td>
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<td>(4.0% OF SUBTOTAL)</td>
<td></td>
<td></td>
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<td>TOTAL REQUEST</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4,783</td>
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<tr>
<td>TOTAL REQUEST (ROUNDED)</td>
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<td></td>
<td></td>
<td></td>
<td>4,800</td>
</tr>
<tr>
<td>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>( 100)</td>
</tr>
</tbody>
</table>

10. Description of Proposed Construction: Reinforced concrete construction to include hardened walls, door, windows and roof, firing ports to allow for 360-degree field of fire, HVAC, plumbing, electrical, communication, garage for tactical armored vehicles, efficiency kitchen, restrooms, storerooms, perimeter lighting and all other facility systems required to support Alert Fire Team (AFT) and Area Security Control (ASC) operations. Passive force protection measures add supporting facilities costs due to the mission and requirements of a Protection Level 1 (PL-1) security facility (hardening, ballistic protection, blast proof door). Utility costs are increased due to the required security measures during construction and the remote nature of the site from existing utility lines. The ASC will be in a hardened room to support the security controller and the operator of the remote targeting enhancement system. This project will meet all other antiterrorism and force protection requirements per the Unified Facilities Criteria.


PROJECT: WSA Security Control Facility (Current Mission)

REQUIREMENT: New standard design for WSA Security Control Facilities will be designed around the requirements for nuclear security. Requirements for ground-level Master Surveillance and Control Facility include the following: hardening of all walls, doors, windows and roof for protection against small arms fire up to 81mm ordnance, firing ports for 360-degree coverage, climate control, and restrooms. A concrete defensive firing position, accessible from within the hardened facility, with grenade dump openings, will be constructed above the earth
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA</th>
<th>2. DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR FORCE</td>
<td>(computer generated)</td>
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</table>

<table>
<thead>
<tr>
<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHITEMAN AIR FORCE BASE, MISSOURI</td>
<td>WSA SECURITY CONTROL FACILITY</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>27576</td>
<td>730-838</td>
<td>YWHG071005</td>
<td>4,800</td>
</tr>
</tbody>
</table>

Cover with 360-degree vision. Utilization for the Alert Fire Team stipulates hardened doors at all access points to the facility, including hardened vehicle doors with adjacent firing ports. Facility supports Alert Fire Team and Area Security Control Operations within a PL-1 weapons storage area (WSA).

**CURRENT SITUATION:** The Alert Fire Team lacks necessary lines-of-fire. The current facility for the Control Center and Alert Fire Team does not have required explosives protection as prescribed by Air Force guidance, resulting in two security deviations in area of highest security, PL-1.

**IMPACT IF NOT PROVIDED:** Security for the WSA will remain non-compliant with nuclear security requirements and have inadequate protection against stand-off weapons and bulk explosives. Compensatory measures for higher risk include driving additional random patrols, forcing alert teams to wear personal protective gear for long hours, and installation of expensive piecemeal alterations such as a proposed $26K ballistic door.

**ADDITIONAL:** This project meets the criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Base Civil Engineer: LtCol Steven W. Moore, Phone: (660) 687-3503. (WSA Security Control Facility: 418 SM = 4500 SF)

**JOINT USE CERTIFICATION:** Mission requirements, operational considerations, and location are incompatible with use by other components.
1. **COMPONENT**
   AIR FORCE

2. **DATE**
   (computer generated)

3. **INSTALLATION AND LOCATION**
   WHITEMAN AIR FORCE BASE, MISSOURI

4. **PROJECT TITLE**
   WSA SECURITY CONTROL FACILITY

5. **PROGRAM ELEMENT**
   27576

6. **CATEGORY CODE**
   730-838

7. **PROJECT NUMBER**
   YWHG071005

8. **PROJECT COST ($000)**
   4,800

9. **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  192
      (4) Construction Contract Award  12 MAR
      (5) Construction Start  12 MAR
      (6) Construction Completion  13 MAR
      (7) Energy Study/Life-Cycle analysis was/will be performed YES

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

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
</tr>
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<tbody>
<tr>
<td>FURNISHINGS</td>
<td>3400</td>
<td>2013</td>
<td>70</td>
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<tr>
<td>COMMUNICATIONS SUPPORT</td>
<td>3080</td>
<td>2012</td>
<td>30</td>
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</table>
1. COMPONENT  
FY 2012 MILITARY CONSTRUCTION PROGRAM  
2. DATE

3. INSTALLATION AND LOCATION  
OFFUTT AIR FORCE BASE, AIR COMBAT COMMAND  
NEBRASKA

4. COMMAND:  
AIR COMBAT COMMAND

5. AREA CONST  
COST INDEX 1

6. Personnel Strength  

<table>
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<tr>
<th></th>
<th>PERMANENT</th>
<th></th>
<th>STUDENTS</th>
<th></th>
<th>SUPPORTED</th>
<th></th>
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<th></th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OFF</td>
<td>ENL</td>
<td>CIV</td>
<td>OFF</td>
<td>ENL</td>
<td>CIV</td>
<td>OFF</td>
<td>ENL</td>
<td>CIV</td>
<td></td>
<td></td>
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<td>AS OF 30 SEP 10</td>
<td>1838</td>
<td>5627</td>
<td>4038</td>
<td>81</td>
<td>101</td>
<td>68</td>
<td>427</td>
<td>208</td>
<td>453</td>
<td>12,841</td>
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<tr>
<td>END FY 2015</td>
<td>1815</td>
<td>5467</td>
<td>3347</td>
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<td>101</td>
<td>68</td>
<td>427</td>
<td>208</td>
<td>453</td>
<td>11,967</td>
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</table>

7. INVENTORY DATA ($000)  
a. Total Acreage: 3,644  
b. Inventory Total as of: (30 Sep 10) 4,129,666  
c. Authorization Not Yet in Inventory: 10,400  
d. Authorization Requested in this Program: 150,000  
e. Planned in Next Four Years Program: 449,200  
g. Remaining Deficiency: 125,200  
h. Grand Total: 4,864,466

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2012)  

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST $,000</th>
<th>DESIGN START</th>
<th>STATUS CMPL</th>
</tr>
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<tbody>
<tr>
<td>610-287</td>
<td>USSTRATCOM Replacement Facility - In 100,866 SM Total</td>
<td>150,000</td>
<td>Oct-09</td>
<td>Feb-11</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

9a. Future Projects: Typical Planned Next Four Years:  
131-111 Communications Data Center  
141-753 NC2 Alert Facility/38 RS  
610-287 STRATCOM Replacement Facility - Incr 2  
610-287 STRATCOM Replacement Facility - Incr 3  
730-839 Kenney/Bellvue Gates  
Total 449,200

9b. Real Property Maintenance Backlog This Installation: 105

10. Mission or Major Functions: Headquarters USSTRATCOM; a strategic aerial reconnaissance wing with 5 flying reconnaissance squadrons flying the OC/RC/TC/WC-135 class aircraft and 1 strategic command and control squadron flying the E-4B, the Air Force Weather Agency, USAF Heartland of America Band and a Strategic Intelligence Squadron

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

DD Form 1390, 9 Jul 02
<table>
<thead>
<tr>
<th>ITEM</th>
<th>U/M</th>
<th>QUANTITY</th>
<th>UNIT COST</th>
<th>COST ($000)</th>
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<tr>
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<tr>
<td>USSTRATCOM REPLACEMENT FACILITY</td>
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<td>100,866</td>
<td>4,344</td>
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<td>LS</td>
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<td>(13,583)</td>
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<td>LS</td>
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<td>DEMOLITION-BLDGS</td>
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<td>BACKUP POWER GENERATION</td>
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<tr>
<td>SUBTOTAL</td>
<td></td>
<td></td>
<td></td>
<td>508,064</td>
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<td>CONTINGENCY</td>
<td>(5.0%)</td>
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<td></td>
<td>25,403</td>
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<td>TOTAL CONTRACT COST</td>
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<tr>
<td>SUPERVISION, INSPECTION AND OVERHEAD</td>
<td>(5.7%)</td>
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<td></td>
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<tr>
<td>TOTAL REQUEST</td>
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<td></td>
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<td>563,875</td>
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<td>TOTAL REQUEST (ROUNDED)</td>
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<td></td>
<td></td>
<td>564,000</td>
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<tr>
<td>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</td>
<td>(547,000.0)</td>
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</tbody>
</table>

10. Description of Proposed Construction: A multi-story facility with reinforced concrete foundation and floor slab, structural steel frame, masonry walls, single membrane roof, utilities, fire detection/protection, security, pavements, access road, adequate security gate, communications support, site improvements, passive force protection, landscaping, and all other necessary support. Significant portions of the construction will meet Secret Compartmentalized Information Facility (SCIF) criteria for open storage. Facility Command & Control and secure backup must be High Altitude Electro Magnetic Pulse (HEMP) Shielded and must survive an EF-5 tornado. This project will comply with DoD antiterrorism/force protection requirements per Unified Facility Criteria. Project includes demolition of buildings totaling 16,963SM.

Air Conditioning: 4,700 Tons

11. Requirement: 100,866 SM Adequate: 0 SM Substandard: 86263 SM

PROJECT: United States Strategic Command (USSTRATCOM) Replacement Facility (Current Mission)

REQUIREMENT: USSTRATCOM is tasked with the vital roles of strategic deterrence, space operations, and cyberspace operations in our nation's defense. Nuclear, space, and network command and control (C2) operations require secure and survivable infrastructure. In support of this mission, a 100,866 SM facility is required to house a 3,921 person work force. The facility must include secure HEMP-Shielded Command & Control Center, mainframe computer data centers, multiple 24/7 mission operation centers, administrative space, storage and maintenance areas, labs/workrooms, distinguished visitor area, theater-type conference room with 400-person capacity, video teleconference, conference center, food service space, training area, adequate parking and access roads, back-up generators, and Uninterruptible Power Source (UPS).
**USSTRATCOM Replacement Facility - INCR 1**

**CURRENT SITUATION:** As USSTRATCOM has taken on more Unified Command Plan tasks, the need for classified working areas has far outstripped the current facility's ability to support. USSTRATCOM needs a new Command and Control facility/headquarters (HQ) to effectively meet its mission requirements. In addition to the current building infrastructure being unable to consistently and safely support the legacy nuclear mission, the facilities are ill suited to the maturing missions of Space and Cyberspace. These mission areas operate at the highest levels of classification in the DoD. However, the current facilities are short of the SCIF spaces required to effectively plan and execute missions in these domains. Currently available SCIF space in the building complex is scattered, forcing work arounds by the staff to accomplish mission taskings. This problem was evident during the Command’s planning for the satellite shoot down in 2008. While the end result was a success, the lack of appropriate SCIF spaces hampered the planning and coordination. Furthermore, in the last two years, the key USSTRATCOM command and control facilities at Offutt AFB have suffered from failure in electrical service and cooling water. Finally, there has been flooding and fires in the HQ complex. These infrastructure shortcomings have put the missions and people at risk, and 24,000 man-hours have been lost as a result of these outages.

**IMPACT IF NOT PROVIDED:** The Command's ability to successfully plan and execute time critical Space and Cyberspace operations will be limited by the lack of adequate and consolidated SCIF space. The aging infrastructure housing the Nation's nuclear deterrent operations will place the mission in jeopardy due to a lack of or failing security and survivability and personnel at risk of injury.

**ADDITIONAL:** This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." Space requirements for operational functions were determined by USSTRATCOM. An economic analysis has been completed. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders. Base Civil Engineer: Mr. Mark Jacobsen (402) 294-5501; (USSTRATCOM Replacement Facility: 100,866 SM = 1,085,748 SF).

**JOINT USE CERTIFICATION:** This facility is for a Combatant Command and as such is programmed for joint use with US Army & US Navy; however, it is fully funded by the Air Force.

**OMB approved incremetal funding of this project by memo dated 4 May 2010.**

Future liabilities resulting from incremetal funding the project are as follows.

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>$150.0M</td>
</tr>
<tr>
<td>2013</td>
<td>$250.0M</td>
</tr>
<tr>
<td>2014</td>
<td>$164.0M</td>
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</tbody>
</table>

**AUTHORIZATION AND APPROPRIATION SUMMARY: REQUESTED FOR FY 2012**

- **Authorization of the Project:** $564.0M
- **Authorization for Appropriation:** $150.0M
- **Appropriation:** $150.0M
1. COMPONENT: AIR FORCE

2. DATE

3. INSTALLATION AND LOCATION: OFFUTT AIR FORCE BASE, NEBRASKA

4. PROJECT TITLE: USSTRATCOM REPLACEMENT FACILITY - INCR 1

5. PROGRAM ELEMENT: 27576

6. CATEGORY CODE: 610-287

7. PROJECT NUMBER: SGBP100904C

8. PROJECT COST ($000): AUTH: 564,000 APP: 150,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

   (1) Status:
   (a) Date Design Started: 26-OCT-09
   (b) Parametric Cost Estimates used to develop costs: YES
   * (c) Percent Complete as of 01 JAN 2011: 95%
   * (d) Date 35% Designed: 16-APR-10
   (e) Date Design Complete: 28-FEB-11
   (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):
   (a) Production of Plans and Specifications: 31,615
   (b) All Other Design Costs: 3,885
   (c) Total: 35,500
   (d) Contract: 33,000
   (e) In-house: 2,500

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

<table>
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<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
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<td>99,000</td>
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<td>6. CATEGORY CODE</td>
<td>7. PROJECT NUMBER</td>
<td>8. PROJECT COST ($000)</td>
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**COMM/COMPUTER/UPS SYSTEM** | 3080 | 2015 | 55,000 |
1. COMPONENT: AIR FORCE

2. DATE

3. INSTALLATION AND LOCATION: NELLIS AIR FORCE BASE, NEVADA

4. COMMAND: AIR COMBAT COMMAND

5. AREA CONST COST INDEX: 1.3

6. Personnel Strength

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<tr>
<th></th>
<th>PERMANENT</th>
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<th>STUDENTS</th>
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<th>SUPPORTED</th>
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<td></td>
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<td>ENL</td>
<td>CIV</td>
<td>OFF</td>
<td>ENL</td>
<td>CIV</td>
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<tr>
<td>AS OF 30 SEP 10</td>
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<td>6415</td>
<td>2709</td>
<td>75</td>
<td>135</td>
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<tr>
<td>END FY 2015</td>
<td>1103</td>
<td>6322</td>
<td>2696</td>
<td>75</td>
<td>135</td>
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</tbody>
</table>

7. INVENTORY DATA ($000)

- a. Total Acreage: 13,921
- b. Inventory Total as of (30 Sep 10): 2,109,983
- c. Authorization Not Yet in Inventory: 123,140
- d. Authorization Requested in this Program: 34,900
- e. Planned in Next Four Years Program: 21,000
- f. Remaining Deficiency: 178,000
- g. Grand Total: 2,467,023

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2012)

<table>
<thead>
<tr>
<th>CATEGORY CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST $000</th>
<th>DESIGN</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>131-111</td>
<td>Communications Network Control Center</td>
<td>1,193</td>
<td>SM</td>
<td>11,400</td>
<td>Design Build</td>
</tr>
<tr>
<td>211-157</td>
<td>F-35 Add/Alter Engine Shop</td>
<td>572</td>
<td>SM</td>
<td>2,500</td>
<td>Design Build</td>
</tr>
<tr>
<td>218-712</td>
<td>F-35A AGE Facility</td>
<td>4,180</td>
<td>SM</td>
<td>21,000</td>
<td>Design Build</td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td></td>
<td></td>
<td></td>
<td>34,900</td>
</tr>
</tbody>
</table>

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

- 211-111 F-16 Maintenance Facility | 21,000

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

- 103

10. Mission or Major Functions: USAF Warfare Center manages advanced pilot training, operation, testing, and tactics development in air, space, and cyberspace. Its 98th Range Wing oversees a 15,000 sq.-mile Nevada Test and Training Range Complex and two emergency airfields. 57th Wing, A-10A, F-15C/E, F-16, F-22A, HH-60G, MQ-1 Predator, MQ-9 Reaper. 57th Wing missions include Red Flag exercises (414th Combat Training Sq.); graduate level pilot training (USAF Weapons School); support for Army exercises (549th Combat Training Sq.); training for international personnel in joint firepower procedures and techniques (57th Operations Gp.); and USAF Air Demonstration Sq. (Thunderbirds). 53rd Wing, at 17 locations nationwide, serves as focal point for combat air forces in electronic warfare, armament and avionics, chemical defense, reconnaissance, and aircrew training devices, and operational testing and evaluation of proposed new equipment and systems. 505th Command and Control Wing builds the predominant air and space command and control ability for combined joint warfighters through training, testing, exercising, and experimentation.

11. Outstanding Pollution and Safety (OSHA Deficiencies):

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

DD Form 1390, 9 Jul 02
1. COMPONENT | AIR FORCE
2. DATE | (computer generated)
3. INSTALLATION AND LOCATION | NELLIS AIR FORCE BASE, NEVADA
4. PROJECT TITLE | COMMUNICATIONS NETWORK CONTROL CENTER
5. PROGRAM ELEMENT | 27576
6. CATEGORY CODE | 131-111
7. PROJECT NUMBER | RKMF103003
8. PROJECT COST ($000) | 11,600

9. COST ESTIMATES

<table>
<thead>
<tr>
<th>ITEM</th>
<th>U/M</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>COST ($000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIMARY FACILITIES</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>COMMUNICATIONS NETWORK CONTROL CENTER</td>
<td>SM</td>
<td>1,193</td>
<td>4,634</td>
<td>(5,528)</td>
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<tr>
<td>SDD &amp; EPACT 05</td>
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<td>SUPPORTING FACILITIES</td>
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<tr>
<td>UTILITIES</td>
<td>LS</td>
<td></td>
<td></td>
<td>(211)</td>
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<td>PASSIVE SECURITY REQUIREMENTS</td>
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<td>COMMUNICATIONS SUPPORT</td>
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<tr>
<td>CONTINGENCY (5.0%)</td>
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<td>TOTAL CONTRACT COST</td>
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<td>SUPERVISION, INSPECTION AND OVERHEAD (5.7%)</td>
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<td>TOTAL REQUEST</td>
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<td>TOTAL REQUEST (ROUNDED)</td>
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<td>11,600</td>
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<td>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</td>
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<td>(9,850)</td>
</tr>
</tbody>
</table>

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural steel frames, split-face masonry unit walls, structural sloping metal seam roof, fire detection/protection system, utilities, communication support, asbestos abatement, and demolition of one facility (1,923 SM), pavements, landscaping, emergency backup generator, and all other necessary support. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 240 Tons


PROJECT: Communications Network Control Center. (Current Mission)

REQUIREMENT: Adequately sized and properly configured base communications facilities are required to reliably support the increased communications and data processing requirements of the flying mission at Nellis AFB and Creech AFB. Critical functions include: command and control of critical network control center (NCC) functions and services for both Nellis AFB and Creech AFB, direct mission support of remotely piloted aircraft (RPA) for overseas contingency operations, secure internet protocol router (SIPR) and non-secure internet protocol router (NIPR), web hosting and electronic data storage in support of Operational Test and Evaluation, and other mission capabilities of the USAF Warfare Center.

CURRENT SITUATION: Current operational readiness is degraded due to the risk of failure of the base network control center facility, which currently provides service to over 14,000 users across 6 wings and the USAF Warfare Center. A new network control center (NCC) is needed to relocate from an aged, unsafe,
vulnerable, and inadequately sized building to allow for mission critical NCC expansion. The current NCC was constructed over 52 years ago and its location, degraded infrastructure, and high asbestos content throughout the building hamper any possibility for upgrades and expansion. The facility housing critical NCC operations and support areas has a large crack in the roof spanning 150 feet and is over 3 inches wide at some points. This crack allows water to leak onto internal ceiling tiles, collapsing them and exposing personnel to dangerous asbestos. The NCC facility has suffered extensive damage to carpet and furniture, and communications equipment due to water leaks, and several offices have been closed temporarily due to damages. In the spring of 2007, the NCC facility suffered a major failure to its HVAC system which virtually shut down critical communications systems throughout Nellis AFB for over four days. A temporary repair to the HVAC system has been made, but a permanent repair and/or upgrades to the HVAC system cannot be made due to the age, configuration and the overall degraded condition of the infrastructure of the building. Furthermore, major renovation cannot be accomplished to the NCC because the facility cannot meet AT/FP setback requirements from adjacent roads and parking. A complete loss of network capabilities could occur at anytime due to water damage or HVAC failure severely impacting the following communication services at Nellis: NIPRNET, SIPRNET, all messaging services, e-mail, Internet, Base Paging Network, and other services which are critical to the flying missions of both Nellis AFB and Creech AFB.

**IMPACT IF NOT PROVIDED:** Without an adequately sized and reliable NCC facility, forced operations in the existing NCC will continue to place base communications in a position detrimental to command and control and at risk of failure due to inadequate working environments. The current situation decreases operational readiness and the ability to effectively support the war fighting mission. Catastrophic failure of critical infrastructure systems of the NCC could result in the complete loss of base communication network capabilities and shutdown the base Network/Communication services for an extended period of time. This includes complete loss of connectivity to RPA combat operations in the CENTCOM Area of Responsibility, the grounding of the F-22A operations at Nellis AFB, and potential interruption of joint worldwide intelligence communication system (JWICS) and SIPRNET services supporting RED Flag, Weapons School, Nellis Combined Air Operations Center - Nellis RPA combat and Nevada Test and Training Range operations.

**ADDITIONAL:** This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements". A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Mark McCloud, (702) 652-4833. (Communications Network Control Center: 1,193 SM = 12,837 SF).

**JOINT USE CERTIFICATION:** Mission requirements, operational considerations and location are incompatible with use by other components.
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<thead>
<tr>
<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE</th>
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</thead>
<tbody>
<tr>
<td>NELLIS AIR FORCE BASE, NEVADA</td>
<td>COMMUNICATIONS NETWORK CONTROL CENTER</td>
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<table>
<thead>
<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
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<tbody>
<tr>
<td>27576</td>
<td>131-111</td>
<td>RKMF103003</td>
<td>11,600</td>
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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 464
   (4) Construction Contract Award 12 FEB
   (5) Construction Start 12 APR
   (6) Construction Completion 13 AUG
   (7) Energy Study/Life-Cycle analysis was/will be performed YES

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

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<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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<td>FURNISHINGS</td>
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1. COMPONENT  AIR FORCE
2. DATE

3. INSTALLATION AND LOCATION  NELLIS AIR FORCE BASE, NEVADA
4. PROJECT TITLE  F-35 ADD/ALTER ENGINE SHOP

5. PROGRAM ELEMENT  27142
6. CATEGORY CODE  211-157
7. PROJECT NUMBER  RKM103010
8. PROJECT COST ($000)  2,750

9. COST ESTIMATES

<table>
<thead>
<tr>
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<th>U/M</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>COST ($000)</th>
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<td>2,750</td>
</tr>
</tbody>
</table>


PROJECT:  F-35A Add/Alter Engine Shop.  (New Mission)

REQUIREMENT:  Additional engine shop space is required to support the permanent beddow of 12 F-35A Primary Development/Test Aircraft starting in FY12, and 24 Primary Training Aircraft beginning in FY14 at Nellis AFB. This project requires facility security accreditation, maintenance computer tracking/maintenance systems, communication instruments/systems, telephones, furniture and other work necessary for a complete and usable facility. This facility must be used to conduct intermediate level maintenance, store spare engines, store support equipment, and administrative space. Nellis AFB is designated as the beddow location for Force Development and Evaluation, and the USAF Weapons School for the F-35A aircraft.

CURRENT SITUATION:  Nellis AFB does not have adequate engine shop capacity to support engine repair for an additional 36 F-35A aircraft. All excess flightline facilities have been at capacity for over 5 years. Additional requirements are documented through the BRAC 2005 process and previously approved weapon systems facility projects; F-22A, F-15/F-16 Aggressors, A-10, as well as the F-35A aircraft. The base must also support aircraft deployed to Nellis for Flag
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR FORCE</td>
<td>(computer generated)</td>
</tr>
<tr>
<td></td>
<td>2. DATE</td>
</tr>
<tr>
<td>3. INSTALLATION AND LOCATION</td>
<td>4. PROJECT TITLE</td>
</tr>
<tr>
<td>NELLIS AIR FORCE BASE, NEVADA</td>
<td>F-35 ADD/ALTER ENGINE SHOP</td>
</tr>
<tr>
<td></td>
<td>5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST ($000)</td>
</tr>
<tr>
<td>27142</td>
<td>211-157</td>
</tr>
</tbody>
</table>

exercises. Nellis is projected to have over 180 assigned aircraft when all beddown and basing decisions are complete. This project will be an engine shop addition to the maintenance hangar portion of FY11 MILCON project RKMF093004 "F-35A Maintenance Hangar/AMU".

**IMPACT IF NOT PROVIDED:** Degraded ability to generate the necessary aircraft sorties to support operational test and weapons school mission requirements. Engine maintenance personnel will not be able to keep pace with operational requirements, thus delaying test, training, and weapon school sorties. Aircraft utilization rates will decrease to unacceptable levels.

**ADDITIONAL:** This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." An analysis of reasonable options for accomplishing this project (status quo, renovations, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Mark H. McCloud, (702) 652-4833. (Engine Shop Addition: 372 SM = 4,000 SF; Engine Shop Alteration: 200 SM = 2,153 SF)

**JOINT USE CERTIFICATION:** Mission requirements, operational considerations, and location are incompatible with use by other components.
1. COMPONENT
AIR FORCE

2. DATE
FY 2012 MILITARY CONSTRUCTION PROJECT DATA
(computer generated)

3. INSTALLATION AND LOCATION
NELLIS AIR FORCE BASE, NEVADA

4. PROJECT TITLE
F-35 ADD/ALTER ENGINE SHOP

5. PROGRAM ELEMENT
27142

6. CATEGORY CODE
211-157

7. PROJECT NUMBER
RKMF103010

8. PROJECT COST ($000)
2,750

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 110

      (4) Construction Contract Award 12 FEB

      (5) Construction Start 12 MAR

      (6) Construction Completion 13 MAR

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

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

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCUREMENT APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
</tr>
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### 1. COMPONENT
AIR FORCE

### 2. DATE
FY 2012 MILITARY CONSTRUCTION PROJECT DATA (computer generated)

### 3. INSTALLATION AND LOCATION
NELLIS AIR FORCE BASE, NEVADA

### 4. PROJECT TITLE
F-35A AGE FACILITY

### 5. PROGRAM ELEMENT
27142

### 6. CATEGORY CODE
218-712

### 7. PROJECT NUMBER
RKM103001

### 8. PROJECT COST ($000)
21,500

### 9. COST ESTIMATES

<table>
<thead>
<tr>
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<th>U/M</th>
<th>QUANTITY</th>
<th>UNIT</th>
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<td>UTILITIES</td>
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<td>SUBTOTAL</td>
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<tr>
<td>CONTINGENCY</td>
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<td>TOTAL CONTRACT COST</td>
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<td>DESIGN/BUILD - DESIGN COST</td>
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<td>TOTAL REQUEST</td>
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<td>TOTAL REQUEST (ROUNDED)</td>
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<tr>
<td>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</td>
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<td>(240)</td>
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</tbody>
</table>

### 10. Description of Proposed Construction:
Reinforced concrete foundation and floor slab, structural steel frame, masonry walls, standing seam metal roof, fire detection/protection, special security enhancements, utilities, site improvements, landscaping, access pavements, roads, vehicle parking, communications support, AGE yard/tank storage, and all other necessary support. This project will comply with antiterrorism/force protection requirements per DoD Unified Facilities Criteria.

**Air Conditioning:** 210 Tons

### 11. Requirement:
F-35A AGE Facility. (New Mission)

**REQUIREMENT:** Additional Aerospace Ground Equipment (AGE) maintenance capacity is required to support the permanent beddown of 12 F-35A Primary Development/Test Aircraft starting in FY12, 24 Primary Training Aircraft beginning FY14 and 36 F-15/F-16 Aggressor aircraft that began with BRAC 2005 realignment initiatives. All 36 F-15/F-16 Aggressor aircraft are expected to be delivered to Nellis AFB by the end of FY10 and the 36 F-35A aircraft are ultimately slated for delivery to Nellis AFB over the next decade. Nellis AFB has been designated as the beddown location for Force Development and Evaluation and the USAF Weapon School for the F-35A Weapon System. The proposed consolidated AGE facility will ultimately be the sole facility that supports the maintenance of all aerospace ground equipment at Nellis AFB.

**CURRENT SITUATION:** Nellis AFB does not have adequate AGE maintenance capacity to support the maintenance requirements of the F-35A and F-15/16 Aggressor beddown initiatives. Nellis is one of the most congested airfields in the Air Force from an operational and logistics perspective. Nellis AFB proper has had significant growth since 2000 with the F-22A Test and Weapon School Beddown (12 aircraft), the F-15/F-16 Aggressor Beddown (36 aircraft), and expansion of Flag exercises and other force structure actions. Nellis is projected to have over 180 assigned
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA</th>
<th>2. DATE</th>
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<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE</th>
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<tbody>
<tr>
<td>NELLIS AIR FORCE BASE, NEVADA</td>
<td>F-35A AGE FACILITY</td>
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<table>
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<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
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<tbody>
<tr>
<td>27142</td>
<td>218-712</td>
<td>RMIF103001</td>
<td>21,500</td>
</tr>
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</table>

aircraft when all actions are complete. The existing AGE facility has been at capacity for the last 5 to 7 years, and additional requirements have been documented through the BRAC 2005 process and previously approved new weapon system facility projects. The existing AGE facility cannot be expanded at its present site and the existing site is needed for the future F-35A Parts Store. The installation is a critical asset for the capabilities and tactics testing of new weapon systems and the training of Combat Forces. The installation supports a diversity of weapons systems ranging from HH-60s, A-10s, F-15s, F-16s, F-22A and now F-35A, all of which support operational test, weapon school and flag exercises.

**IMPACT IF NOT PROVIDED:** Without adequate AGE maintenance facilities, Nellis AFB's ability to generate the necessary aircraft sorties to support F-35A and F-15/F-16 Aggressor aircraft will be severely impacted. Without adequate AGE support of these aircraft, maintenance personnel will be unable to support the maintenance of these weapon systems, negatively impacting fleet health and the overall success of the F-35A and F-15/F-16 Aggressor mission programs.

**ADDITIONAL:** This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." An analysis of reasonable options for accomplishing this project (status quo, renovations, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Mark H. McCloud, (702) 652-4833. (AGE Facility: 4,180 SM = 45,000 SF)

**JOINT USE CERTIFICATION:** Mission requirements, operational considerations and location are incompatible with use by other components.
**1. COMPONENT**
AIR FORCE

**2. DATE**

**3. INSTALLATION AND LOCATION**
NELLIS AIR FORCE BASE, NEVADA

**4. PROJECT TITLE**
F-35A AGE FACILITY

**5. PROGRAM ELEMENT**
27142

**6. CATEGORY CODE**
218-712

**7. PROJECT NUMBER**
RKMF103001

**8. PROJECT COST ($000)**
21,500

**12. SUPPLEMENTAL DATA:**

a. Estimated Design Data:

1. Project to be accomplished by design-build procedures

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

3. All Other Design Costs 860

4. Construction Contract Award 12 FEB

5. Construction Start 12 MAR

6. Construction Completion 14 MAR

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

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

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<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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1. **COMPONENT**  
   AIR FORCE

2. **FY 2012 MILITARY CONSTRUCTION PROGRAM**

3. **INSTALLATION AND LOCATION**  
   CANNON AFB, NEW MEXICO

4. **COMMAND:**  
   AIR FORCE SPECIAL OPERATIONS COMMAND

5. **AREA CONST:**  
   COST INDEX: 0.98

6. **Personnel Strength**

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<th>PERMANENT</th>
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<td>OFF</td>
<td>ENL</td>
<td>CIV</td>
<td>OFF</td>
<td>ENL</td>
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7. **INVENTORY DATA ($000)**

a. Total Acreage: 3,789

b. Inventory Total as of: (30 Sep 10) 1,002,731

c. Authorization Not Yet in Inventory: 69,000

d. Authorization Requested in this Program: 22,598

e. Planned in Next Four Year Program: 41,850
f. Remaining Deficiency: 217,997

g. Grand Total: 1,354,176

8. **PROJECTS REQUESTED IN THIS PROGRAM: (FY2012)**

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST $,000</th>
<th>DESIGN</th>
<th>STATUS</th>
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<tr>
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</tr>
<tr>
<td>721-312</td>
<td>Dormitory (96 RM)</td>
<td>96 RM</td>
<td>$15,000</td>
<td>Design</td>
<td>Build</td>
</tr>
<tr>
<td>831-165</td>
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<td>$7,598</td>
<td>May-10</td>
<td>Sep-11</td>
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9a. **FUTURE PROJECTS: Typical Planned Next Four Years:**

<table>
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<th>SCOPE</th>
<th>COST $,000</th>
<th>DESIGN</th>
<th>STATUS</th>
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<tbody>
<tr>
<td>721-312 Dormitory (96 RM)</td>
<td>96 RM</td>
<td>$15,000</td>
<td>Design</td>
<td>Build</td>
</tr>
<tr>
<td>722-351 Satellite Dining Facility</td>
<td></td>
<td>$5,000</td>
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<tr>
<td>722-351 Satellite Dining and Fitness Center Part 2</td>
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<tr>
<td>730-839 Construct AT/FP Gates</td>
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<td>$12,800</td>
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<td>740-253 Family Support Center</td>
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<tr>
<td></td>
<td></td>
<td>$41,850</td>
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9b. **Real Property Maintenance Backlog This Installation: ($M)**  
   80,000

10. **MISSION OR MAJOR FUNCTIONS:** Special Operations Wing with MC-130W, AC-130, CV-22, Non-Standard Aviation (NSA), and Unmanned Aerial System (UAS) special operations squadrons.

11. **OUTSTANDING POLLUTION AND SAFETY (OSHA) DEFICIENCIES:**

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

DD Form 1390, 24 Jul 00
### 9. COST ESTIMATES

<table>
<thead>
<tr>
<th>ITEM</th>
<th>U/M</th>
<th>QUANTITY</th>
<th>UNIT COST</th>
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<tr>
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<tr>
<td>TOTAL REQUEST (ROUNDED)</td>
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<td>7,598</td>
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</table>

10. Description of Proposed Construction: Expand the existing wastewater treatment plant (WWTP) to handle a capacity of one million gallons per day with construction of a new 250 thousand gallon (KG) aerobic digester, and the conversion of existing aerobic digester into a sequencing batch reactor (SBR). The new aerobic digester will be constructed to support all SBRs to include new railings, larger blowers, plumbing, and electronic control systems. Project includes upgrade to a larger transformer and emergency generator to support electrical requirements. Upgrades grit and grease collection device and installs a lift station. Constructs concrete channel between lift station and grit and grease device. Fill in flume channel and grease pit to bring up to ground level, and shorten length of auger monster. Fill existing equipment chamber with soil and cover with reinforced concrete to bring equipment up to ground level. Replace actuators on influent, air supply, and decanter valves. Perform project site restoration to restore hydrology to predevelopment conditions per Energy Independence and Security Act, Section 438. This project will comply with DoD antiterrorism/force protection requirements per the Unified Facilities Criteria.

11. Requirement: 1000 KG Adequate: 750 KG Substandard: 0 KG

PROJECT: Add/Alter Wastewater Treatment Plant. (New Mission - Western Basing)

REQUIREMENT: Expand and alter the existing WWTP to accommodate new mission growth. By FY12, multiple new missions will be assigned to Cannon to include two C-130 squadrons, a Remotely Piloted Aircraft (RPA) squadron, one CV-22 squadron, a Non-Standard Aircraft (NSA) squadron, and various other Special Operations Forces personnel along with associated maintenance hangars, aircraft wash racks, squadron operations, administrative facilities, dormitories and housing. The load on the WWTP from base domestic and industrial sources is expected to be 770,000 gallons per day (GPD) with Cannon AFB's end-state total population of 13,221 people due to the AFSCC beddown. However, the capacity must be 20% greater than this to allow for spikes in wastewater flow. This brings the total requirement up to 1 million GPD.
CURRENT SITUATION: The WWTP is currently sized for Cannon's previous fighter mission and has a capacity of 750,000 GPD. This will be inadequate to treat the amount of effluent that will be generated when the increased number of personnel, equipment and facilities establish increased operations at the installation by FY14. There is an increased risk to human health and safety, and environmental non-compliance if the plant's capacity is not increased. This facility provides treated wastewater for several irrigated areas of Cannon AFB, which reduces the base's annual usage of potable water from on-base wells.

IMPACT IF NOT PROVIDED: The inadequately sized WWTP will not be able to support the base growth and potentially be forced to release untreated wastewater into Playa lake during times of peak flow. This would be a violation of state and federal environmental statutes and could result in enforcement actions against the installation.

ADDITIONAL: This project meets the criteria/scope in Air Force Handbook 32-1084, “Facility Requirements”. All known alternative options were considered during the development of this project. No other option could meet the mission requirement, therefore, a certificate of exception to an economic analysis will be prepared. Anti-terrorism/force protection measures will be included in accordance with Unified Facilities Criteria (UFC) 4-010-01, DoD Minimum Anti-Terrorism Standards for Buildings. Sustainable principles will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Dan A. Guinan, (575) 784-2008.

JOINT USE CERTIFICATION: This is an installation utility/infrastructure project, and does not qualify for joint use at this location. However, all tenants on this installation are benefited by this project.
1. COMPONENT
AIR FORCE

5. PROGRAM ELEMENT
27576

6. CATEGORY CODE
831-165

4. PROJECT TITLE
ADAL WASTEWATER TREATMENT PLANT

7. PROJECT NUMBER
CZQZ133001

8. PROJECT COST ($000)
7,598

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

   (1) Status:
   (a) Date Design Started
       Date Design Started 03-MAY-10
   (b) Parametric Cost Estimates used to develop costs
       YES
   * (c) Percent Complete as of 01 JAN 2011
       15 %
   * (d) Date 35% Designed
       Date 35% Designed 16-MAR-11
   (e) Date Design Complete
       Date Design Complete 30-SEP-11
   (f) Energy Study/Life-Cycle analysis was/will be performed
       YES

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

   (3) Total Cost (c) = (a) + (b) or (d) + (e)
   ($000)
   (a) Production of Plans and Specifications
       456
   (b) All Other Design Costs
       228
   (c) Total
       684
   (d) Contract
       570
   (e) In-house
       114

   (4) Construction Contract Award
       Construction Contract Award 12 JAN

   (5) Construction Start
       Construction Start 12 MAR

   (6) Construction Completion
       Construction Completion 13 JUL

   * Indicates completion of Project Definition with Parametric Cost Estimate
     which is comparable to traditional 35% design to ensure valid scope,
     cost and executability.

b. Equipment associated with this project provided from other appropriations:
   N/A
1. COMPONENT: AIR FORCE
2. DATE: FY 2012 MILITARY CONSTRUCTION PROJECT DATA
   (computer generated)

3. INSTALLATION AND LOCATION: CANNON AIR FORCE BASE, NEW MEXICO
4. PROJECT TITLE: DORMITORY (96 RM)

5. PROGRAM ELEMENT: 27576
6. CATEGORY CODE: 721-312
7. PROJECT NUMBER: CZQZ123001
8. PROJECT COST ($000): 15,000

9. COST ESTIMATES:

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<th>UNIT</th>
<th>COST ($000)</th>
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<tr>
<td>PAVEMENTS</td>
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<td></td>
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<td>DEMOLITION</td>
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<td>CONTINGENCY (5.0%)</td>
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<td>TOTAL CONTRACT COST</td>
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<td></td>
<td></td>
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<td>15,000</td>
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</table>

10. Description of Proposed Construction: Construct a three-story, four-plex dormitory with 96 rooms, reinforced concrete foundation, steel frame, and reinforced concrete walls and floors. The exterior finish will consist of split-face concrete masonry unit (CMU) walls and standing-seam metal roof. The project includes all utilities, pavements, site improvements, landscaping, paved parking lot, and all required facility support. Project also includes demolition of one existing facility (2,404 SM). This project will comply with DoD antiterrorism/force protection requirements per the Unified Facilities Criteria.

Air Conditioning: 150 Tons Grade Mix: E1-E4


PROJECT: Construct a 96-person dormitory. (New Mission - Western Basing)

REQUIREMENT: Meet new requirements for beddown of Special Operations Forces (SOF).

By FY11, multiple new missions will be assigned to Cannon to include two MC-130 squadrons, one AC-130 squadron, two Remotely Piloted Aircraft (RPA) squadrons, one CV-22 squadron, two Non-Standard Aircraft (NSA) squadrons, one intelligence squadron, one flying training squadron, and various other SOF personnel. The base unaccompanied enlisted Personnel (UEP) housing requirement is currently 671 rooms, but based on manpower projections through FY15, there is a deficit of 155 rooms. This project will help alleviate the shortage and inadequacy of single Airmen living quarters. Properly designed and furnished quarters providing individual privacy conducive to proper rest, relaxation and personal well being of Airmen is essential to the successful accomplishment of the Special Operations mission.

CURRENT SITUATION: Due to BRAC, Cannon dorms were put on hold for all renovation and replacement from FY05 until FY09. As a result all existing dorms are in need
of renovation and infrastructure upgrades or replacement. Cannon’s existing seven dormitories do not meet the “Dorm-4-Airmen” four-plex configuration standard and the Dorm Master Plan recommends a final disposition of all dorms at Cannon as “Demolition-Replace.” Of greatest concern are the two oldest inadequate but habitable dorms which are 42 and 50 years old and classified as Tier 2 facilities. These facilities are approaching the "uninhabitable" rating of 1.0 with current low condition assessment matrix (CAM) scores of 1.65 out of 5.0. These dormitories need to be replaced immediately. Additionally, the special operations missions currently bedding down create an overall deficit of dormitory rooms. Due to limited capacity, double occupancy is required in two dorms and 100+ personnel eligible to live in the dorms are currently living off base. A shortage of 155 dormitory rooms is forecasted through FY15 based on projected manning levels (anticipated mission growth versus currently programmed manning). As a result, the end state requirement will be 711 rooms, a 40-person increase from the programmed 671 capacity requirement.

**IMPACT IF NOT PROVIDED:** The dormitory deficit will force either increased occupancy (return to 2+2 configuration or greater) of existing dorms, or force younger, single Airmen to live in off-base housing which is substandard for the most part and exceeds current Basic Allowance for Housing rates. The majority of housing with affordable rent is typically in areas that are less safe and secure than desirable. Additionally, these single Airmen will compete for housing in an already limited market impacting military families seeking off base housing. These conditions reduce the quality of life for Airmen and can potentially affect their mission ability. Degradation of existing dormitories will increase, continuing the increase of dormitory shortages. A major AF objective is to provide unaccompanied Airmen with housing conducive to proper rest, relaxation, and personal well being. Highly trained and competent Airmen are essential to the Special Operations readiness posture and continuing world-wide presence. Highly technical demanding jobs, coupled with the high-ops tempo of the unique AF Special Operations mission, carries increased stress for young single Airmen and inadequacies in dwellings can negatively impact retention.

**ADDITIONAL:** This project meets the criteria/scope in the AF Handbook 32-1084, Facility Requirements, the Dorm-4-Airmen Design Guide, the AF Dorm Master Plan and the Cannon AFB General Plan. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) was done. It indicates there is only one option that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception is being prepared. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. FY2009 Unaccompanied Housing RPM conducted: $4.4M. FY2010 Unaccompanied Housing RPM conducted: $4.2M. Future Unaccompanied Housing RPM planned: $6.2M. Base Civil Engineer: Lt Col Anne M Coverston; Phone: (575) 784-2008. Dormitory (96 RM): 3168 SM = 34,088 SF.

**JOINT USE CERTIFICATION:** This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.
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<thead>
<tr>
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<td>2. DATE</td>
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<td>3. INSTALLATION AND LOCATION</td>
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<tr>
<td>4. PROJECT TITLE</td>
<td>DORMITORY (96 RM)</td>
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<td>5. PROGRAM ELEMENT</td>
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<td>6. CATEGORY CODE</td>
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<tr>
<td>7. PROJECT NUMBER</td>
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<td>8. PROJECT COST ($000)</td>
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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  
600

(4) Construction Contract Award  
12 FEB

(5) Construction Start  
12 MAR

(6) Construction Completion  
13 NOV

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

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

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<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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### INSTALLATION AND LOCATION

HOLLOMAN AIR FORCE BASE, NEW MEXICO

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<th>COMMAND:</th>
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<td>AREA CONST</td>
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### Personnel Strength

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<th>STUDENTS</th>
<th>SUPPORTED</th>
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<td>ENL</td>
<td>CIV</td>
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<tr>
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<td>END FY 2015</td>
<td>395</td>
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### INVENTORY DATA ($000)

- a. Total Acreage: 57,837
- b. Inventory Total as of: (30 Sep 10) 2,524,621
- c. Authorization Not Yet in Inventory: 105,870
- d. Authorization Requested in this Program: 29,200
- e. Planned in Next Four Years Program: 57,000
- f. Remaining Deficiency: 44,600
- g. Grand Total: 2,761,291

### Projects Requested in This Program: (FY 2012)

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST</th>
<th>DESIGN</th>
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<tr>
<td></td>
<td>112-211</td>
<td>F-16 Parallel Taxiway 07/25</td>
<td>SM</td>
<td>39,000</td>
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<td></td>
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### Future Projects: Typical Planned Next Four Years:

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<th>CATEGORY</th>
<th>CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST</th>
</tr>
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<tr>
<td></td>
<td>311-171</td>
<td>Rams Indoor Target Flip Facility</td>
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<td></td>
<td>319-951</td>
<td>ADAL Fabrication Shop</td>
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<td></td>
<td>442-758</td>
<td>BEAR Set Asset Storage Facility</td>
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<td></td>
<td>721-312</td>
<td>Dormitory (168 RM)</td>
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<td></td>
<td>Total</td>
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### Mission or Major Functions:

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

### Outstanding Pollution and Safety (OSHA Deficiencies):

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

DD Form 1390, 9 Jul 02
**AIR FORCE**

**HOLLOMAN AIR FORCE BASE, NEW MEXICO**

**CHILD DEVELOPMENT CENTER**

**27576**

**740-884**

**KWRD013003**

**11,200**

### 9. COST ESTIMATES

<table>
<thead>
<tr>
<th>ITEM</th>
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<th>QUANTITY</th>
<th>UNIT</th>
<th>COST ($000)</th>
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<tr>
<td>PAVEMENTS</td>
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<td><strong>TOTAL REQUEST (ROUNDED)</strong></td>
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<tr>
<td>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</td>
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<td>(1,675)</td>
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</tbody>
</table>

10. Description of Proposed Construction: Concrete footing and floor slab, masonry walls, standing seam metal roof, utilities, fire detection/protection, fencing, communication support, parking, pick-up/drop-off area, access road, site improvements, landscaping, outdoor play area, and all other necessary support. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 85 Tons


PROJECT: Child Development Center. (Current Mission)

REQUIREMENT: An adequately sized and configured Child Development Center is required to provide day care services for active duty dependent children. It must provide a safe and healthy environment that includes early childhood development and preschool programs. Child Development Center space is required for 194 children.

CURRENT SITUATION: Child care programs are currently provided from three geographically separated facilities that are aging and too small to meet the needs of parents and provide the required services. The waiting list for enrollment in the Child Development Center is over 80 children. The substandard facilities are filled to capacity early each morning, requiring parents in need of child care to find other providers in the civilian community at more costly rates. An Emergency-Intervention "Add/Alter" project was awarded in Sep 09 to renovate and increase the capacity of one existing facility. All children were relocated from the existing facility to alternate youth program facilities for the duration of the construction, further restricting available on-base care options. After construction began in Mar 10, a previously unknown underground storage tank (UST) with heating fuel oil contaminated soil were discovered under both the existing...
facility and the new addition under construction. After consultation with State of New Mexico environmental regulators, the Air Force Center for Engineering and the Environment and Air Combat Command Asset Management personnel, the Add/Alter project was cancelled. Due to the levels of contamination it was determined that child care could no longer take place in the existing facility and the facility was scheduled for demolition in conjunction with the environmental remediation of the site. This project will consolidate child care services at one location, eliminate the current temporary care arrangements, eliminate the waiting list, and better meet child care needs of Holloman AFB personnel.

**IMPACT IF NOT PROVIDED:** Holloman personnel who require child care will continue to seek other than on-base options. This situation is aggravated by the reduced capacity caused by the now cancelled emergency intervention project and is especially acute during exercises when off-base child care services are not available during extended duty hours. Lack of available child care on-base will continue to have an impact on morale and mission performance when service members' children cannot be cared for.

**ADDITIONAL:** This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements" and the Air Force design guide for Child Development Centers. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction) was done. It indicates there is only one option that will meet operational requirements, new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of this project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Christian J. Knutson, (575) 572-3071; (Child Development Center: 2,795 SM = 30,085 SF)

**JOINT USE CERTIFICATION:** Mission requirements, operational considerations, and location are compatible with use by other components; however, it is fully funded by the Air Force.
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<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA (computer generated)</th>
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<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE</th>
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<tbody>
<tr>
<td>HOLLOMAN AIR FORCE BASE, NEW MEXICO</td>
<td>CHILD DEVELOPMENT CENTER</td>
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<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
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<tr>
<td>27576</td>
<td>740-884</td>
<td>KWRD013003</td>
<td>11,200</td>
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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 448

(4) Construction Contract Award 12 FEB

(5) Construction Start 12 MAR

(6) Construction Completion 13 SEP

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

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

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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<tbody>
<tr>
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### Cost Estimates

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10. Description of Proposed Construction: Construct a single story sprinkler-equipped facility consisting of a concrete foundation, tilt-up construction (split-faced concrete block over steel frame), and sloped standing seam metal roof along with site improvements. Functional areas include training classrooms, administrative support space, general storage, mechanical, electric equipment and communications, fire protection, utilities, and parking. Project will meet minimum AT/FP requirements per the DoD Unified Facility Criteria.

11. Requirement: 1391 SM Adequate: 0 SM Substandard: 0 SM

**PROJECT:** Construct new F-16 Academic Training Facility. (New Mission)

**REQUIREMENT:** An Academic Facility is required to beddown the F-16 aircraft scheduled for arrival beginning in Oct 2011. This facility will provide academic training for 2 flying squadrons. It contains pilot academic training classrooms and computer based trainers, as well as administrative/operations, instructor, and personnel. Training will be accomplished using instructor-led classroom activities, independent study via interactive courseware training devices, and other courseware.

**CURRENT SITUATION:** Holloman AFB does not have facilities with required security and space available to support the training mission for the F-16.

**IMPACT IF NOT PROVIDED:** Without this project, the F-16 beddown will disjointed. Because of lack of suitable space, training will have to be conducted in trailers, complicating and adversely affecting training. As portions of the training are classified, classified-capable trailers will have to be obtained. Trailers are not an effective or efficient long-term solution for this requirement.

**ADDITIONAL:** Facility is based on AFH 32-1084, "Facility Requirements" for a flying training classroom; the specific requirements are determined by number of classrooms, students, and administrative personnel. A Certificate of Exception for
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA</th>
<th>2. DATE</th>
</tr>
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<tbody>
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<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE</th>
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<tbody>
<tr>
<td>HOLLOMAN AIR FORCE BASE, NEW MEXICO</td>
<td>F-16 ACADEMIC FACILITY</td>
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<table>
<thead>
<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
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<tbody>
<tr>
<td>27597</td>
<td>171-211</td>
<td>KWRD113005</td>
<td>5,800</td>
</tr>
</tbody>
</table>

Economic Analysis will be prepared. Project includes the New Mexico Gross Receipt Tax of 5.9375% for the Holloman AFB area. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project in IAW Executive Order 13423, 10 U.S.C 2802 (c), and other applicable laws and executive order. Base Civil Engineer: Lt Col Derby, Comm (575)572-3071. Flying Training Classroom Facility: 1,391SM = 15,000SF.

JOINT USE CERTIFICATION: The facility can be used by other components on an as available basis; however, the scope of the project is based on Air Force requirements.
**1. COMPONENT**
- AIR FORCE

**2. DATE**
- FY 2012 MILITARY CONSTRUCTION PROJECT DATA
- (computer generated)

**3. INSTALLATION AND LOCATION**
- HOLLOMAN AIR FORCE BASE, NEW MEXICO

**4. PROJECT TITLE**
- F-16 ACADEMIC FACILITY

**5. PROGRAM ELEMENT**
- 27597

**6. CATEGORY CODE**
- 171-211

**7. PROJECT NUMBER**
- KWRD113005

**8. PROJECT COST ($000)**
- 5,800

**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
   - 232

4. Construction Contract Award
   - 12 FEB

5. Construction Start
   - 12 APR

6. Construction Completion
   - 13 OCT

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

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

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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<td>FURN, FIXTURES, EQUIP</td>
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2. DATE

3. INSTALLATION AND LOCATION
HOLLOMAN AIR FORCE BASE, NEW MEXICO

4. PROJECT TITLE
F-16 PARALLEL TAXIWAY, RWY 07/25

5. PROGRAM ELEMENT
27597

6. CATEGORY CODE
112-211

7. PROJECT NUMBER
KWRD083007

8. PROJECT COST ($000)
8,000

9. COST ESTIMATES

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<tr>
<th>ITEM</th>
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<th>UNIT</th>
<th>COST</th>
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<td>SUBTOTAL</td>
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<td>CONTINGENCY (5.0%)</td>
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<td>SUPERVISION, INSPECTION AND OVERHEAD (5.7%)</td>
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<td>TOTAL REQUEST (ROUNDED)</td>
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<td>8,000</td>
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</tbody>
</table>

10. Description of Proposed Construction: Construct a taxiway parallel to Runway 07/25 extending from the existing Taxiway F eastward to intersect with the new taxiway being constructed as part of the FY10 UAS beddown. Construction will consist of 16" airfield rated concrete and all required lighting, signage and striping is to be installed. This project will meet antiterrorism and force protection requirements per Unified Facilities Criteria.


PROJECT: Parallel Taxiway, Rwy 07/25 (New Mission)
REQUIREMENT: F-22A and F-16 aircraft are highly susceptible to foreign object damage (FOD). Due to the high expenses involved to correct the damage and related safety concerns, aircraft operations require pavements to be as FOD-free as possible.

CURRENT SITUATION: Assigned aircraft are operating from the West Ramp and departing/arriving on Runway 16/34. Existing taxiways require an aircraft to use Taxiway H in order to return to the West Ramp for post-flight procedures and storage. A public street crosses Taxiway H west of the entrance to the West Ramp aircraft parking area. This street crossing is prone to generating FOD producing material due to the amount of government and personal vehicles crossing the taxiway daily. Bong Street is the only access to the majority of the aircraft maintenance facilities and cannot be relocated. Construction of a parallel taxiway will connect to Taxiway D and avoid Taxiway H entirely.

IMPACT IF NOT PROVIDED: If this project is not executed, all aircraft operations will remain susceptible to FOD damage. The cost of a F-22 engine is over $6M, and $3M for the F-16. A single FOD incident can render an engine useless without major repairs. Other installations operating the Raptor have already experienced severe FOD incidents. A project costing approximately the price of one single F-22A engine pays for itself in short order. Construction of the parallel taxiway also shortens the taxi time and distance by more than half, resulting in a savings in fuel. Reduction in taxi time also lessens the problems of aircraft overheating in the high summer temperatures experienced at Holloman AFB.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements". A preliminary analysis of alternative actions has
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA</th>
<th>2. DATE</th>
</tr>
</thead>
<tbody>
<tr>
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<table>
<thead>
<tr>
<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE</th>
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<tbody>
<tr>
<td>HOLLOMAN AIR FORCE BASE, NEW MEXICO</td>
<td>F-16 PARALLEL TAXIWAY, RWY 07/25</td>
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</table>

<table>
<thead>
<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
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</thead>
<tbody>
<tr>
<td>27597</td>
<td>112-211</td>
<td>KWRD083007</td>
<td>8,000</td>
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</table>

been conducted. It indicates that only one option meets operational needs. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802(c) and other applicable laws and Executive orders. Base Civil Engineer: Christian J. Knutson, Lt Col, USAF (575) 572-3071. (Taxiway 33,000 SM = 355,209 SF; Taxiway Shoulders: 6,000 SM = 64,583 SF)

JOINT USE CERTIFICATION: Mission requirements, operational considerations and location are incompatible with use by other components.
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA (computer generated)</th>
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</thead>
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<tr>
<td>3. INSTALLATION AND LOCATION</td>
<td>4. PROJECT TITLE</td>
</tr>
<tr>
<td>HOLLOMAN AIR FORCE BASE, NEW MEXICO</td>
<td>F-16 PARALLEL TAXIWAY, RWY 07/25</td>
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<tr>
<td>5. PROGRAM ELEMENT</td>
<td>6. CATEGORY CODE</td>
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<tr>
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<td>112-211</td>
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<td>7. PROJECT NUMBER</td>
<td>8. PROJECT COST ($000)</td>
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<tr>
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</tbody>
</table>

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 240
   (4) Construction Contract Award 12 FEB
   (5) Construction Start 12 APR
   (6) Construction Completion 13 OCT
   (7) Energy Study/Life-Cycle analysis was/will be performed YES

b. Equipment associated with this project provided from other appropriations: N/A
**F-16 SEAD Training Facility**

**Requirements:**

- 831 SM Adequate: 0 SM Substandard: 0 SM

**Project:**

Construct new SEAD (Suppression of Enemy Air Defense) training facility.

**Requirement:** A SEAD training facility is required to beddown the F-16 aircraft scheduled for arrival beginning in Oct 2011. This facility will provide academic training for the SEAD mission. It contains pilot academic training classrooms and computer-based trainers, as well as administrative/operations, instructor and personnel.

**Current Situation:** Holloman AFB does not have facilities with required security and space available to support this AETC training mission for the F-16.

**Impact if Not Provided:** Without this facility, the F-16 beddown will be disjointed and SEAD training will not occur as part of the follow-on training for the F-16.

**Additional:** Facility is based on AFH 32-1084, "Facility Requirements" for an academic facility. A Certificate of Exception for the Economic Analysis will be prepared. Project includes the New Mexico Gross Receipt Tax of 5.9375% for the Holloman AFB area. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the facility.

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**Cost Estimates**

<table>
<thead>
<tr>
<th>Item</th>
<th>U/M</th>
<th>Quantity</th>
<th>Unit Cost</th>
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</table>

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

2. DATE
FY 2012 MILITARY CONSTRUCTION PROJECT DATA (computer generated)

3. INSTALLATION AND LOCATION  
HOLLOMAN AIR FORCE BASE, NEW MEXICO

4. PROJECT TITLE  
F-16 SEAD TRAINING FACILITY

5. PROGRAM ELEMENT  
27597

6. CATEGORY CODE  
171-621

7. PROJECT NUMBER  
KWRD113010

8. PROJECT COST ($000)  
4,200

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 168
   (4) Construction Contract Award 12 FEB
   (5) Construction Start 12 APR
   (6) Construction Completion 13 MAR
   (7) Energy Study/Life-Cycle analysis was/will be performed YES

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

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<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR</th>
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2. DATE

3. INSTALLATION AND LOCATION

4. COMMAND:

5. AREA CONST COST INDEX

6. PERSONNEL STRENGTH

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<th>SUPPORTED</th>
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<td>OFF</td>
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<td>END FY 2015</td>
<td>385</td>
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7. INVENTORY DATA ($000)

- Total Acreage: 52,678
- Inventory (PRV $000) total as of: (30 Sep 10) 2,960,559
- Authorization Not Yet in Inventory: 40,079
- Authorization Requested in this Program ($000): 25,000
- Planned in Next Four Years Program: 205,453
- Remaining Deficiency: 566,133
- Grand Total: 3,797,224

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2012)

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<thead>
<tr>
<th>CATEGORY</th>
<th>CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>DESIGN</th>
<th>STATUS</th>
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<td>5,310 SM</td>
<td>$25,000</td>
<td>Design Build</td>
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<tr>
<td>116-662</td>
<td>Construct Hot Cargo Pad</td>
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<td>$14,600</td>
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<tr>
<td>130-142</td>
<td>Crash/Fire/Rescue Station</td>
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<td>$7,800</td>
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<td>141-753</td>
<td>550th Operations Facility</td>
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<td>141-764</td>
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<td>171-214</td>
<td>PJ/CRO Aquatics Rescue/Recovery Training Center</td>
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<td>Visiting Officers Quarters</td>
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<td>$9,500</td>
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<td>730-142</td>
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<td>$6,800</td>
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<tr>
<td>730-841</td>
<td>Military Working Dog Facility</td>
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<td>$4,400</td>
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<tr>
<td>740-674</td>
<td>Fitness Center</td>
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<td>$32,803</td>
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<td>740-884</td>
<td>Child Development Center</td>
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<td>$19,950</td>
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</table>

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

- 116-662 Construct Hot Cargo Pad $14,600
- 130-142 Crash/Fire/Rescue Station $7,800
- 141-753 550th Operations Facility $12,900
- 141-764 DMOC Addition $8,900
- 171-214 PJ/CRO Aquatics Rescue/Recovery Training Center $15,000
- 721-312 Dormitory (120 RM) $27,300
- 721-312 Dormitory (120 RM) $22,500
- 721-312 Dormitory (120 RM) $23,000
- 724-417 Visiting Officers Quarters $9,500
- 730-142 Replace Fire Station 3 $6,800
- 730-841 Military Working Dog Facility $4,400
- 740-674 Fitness Center $32,803
- 740-884 Child Development Center $19,950

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

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

11. Outstanding pollution and Safety (OSHA Deficiencies):

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

DD Form 1390, 24 Jul 00

108
1. COMPONENT: AIR FORCE  
2. DATE: FY 2012 MILITARY CONSTRUCTION PROJECT DATA  
(computer generated)  
3. INSTALLATION AND LOCATION: KIRTLAND AIR FORCE BASE, NEW MEXICO  
4. PROJECT TITLE: AFNWC SUSTAINMENT CENTER  
5. PROGRAM ELEMENT: 72976  
6. CATEGORY CODE: 610-281  
7. PROJECT NUMBER: MMV093108  
8. PROJECT COST ($000): 25,000  
9. COST ESTIMATES  

<table>
<thead>
<tr>
<th>ITEM</th>
<th>U/M</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>COST ($000)</th>
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<td>8,600</td>
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10. Description of Proposed Construction: Three-story steel-framed structure built as a Sensitive Compartmented Information Facility (SCIF) addition to the existing Air Force Nuclear Weapons Center (AFNWC) building 20325. Facility will include reinforced concrete foundation and floors, exterior walls, and appearance to match the existing building. Electrical, mechanical, plumbing, HVAC, fire protection systems, elevator, all utilities, communications infrastructure to the building and extensive secure communications systems. Includes site improvements, landscaping, and parking for 150 POV. Demolishes 333 SM. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria.

Air Conditioning: 100 Tons


PROJECT: AFNWC Sustainment Center. (New Mission)

REQUIREMENT: Construct a highly flexible Sustainment Center (hereafter, the CENTER) to support the end state total of 420 personnel in the new facility. This project will consolidate Headquarters Air Force Nuclear Weapons Center (HQ AFNWC) personnel into one location for increased efficiency and effective/time communication. The CENTER the Sustainment & Integration Center and is responsible for 24/7/365 operations to track/monitor Positive Inventory Control (PIC) of all Air Force Nuclear Weapons Related Materiel; the STIC portion of the CENTER will have extensive state-of-the-art electronic information systems and graphical displays to meet PIC requirements. The CENTER will be an addition to the present HQ AFNWC to unite the entire organization and maximize synergy among all its components. In FY09, HQ USAF directed the AFNWC to assume responsibility for all CONUS-based nuclear weapons under the custody of the Munitions Accountable Systems Officer (MASO) and responsibility for MAJCOM-level functional management of CONUS
2. DATE

2W2s, nuclear cruise missile 2M0s, and nuclear-tracked 21Ms (warhead). Therefore, the mission of the AFNWC has greatly expanded to provide complete control over the entire strategic sustainment supply chain.

CURRENT SITUATION: By FY14, AFNWC will reach its end-state staff of 420 personnel. The existing HQ AFNWC facility can hold only 165 personnel leaving HQ AFNWC short of space for 255 personnel, a requirement which exceeds the capacity of available space at Kirtland AFB. Because Kirtland does not have the facility capacity to meet AFNWC's total staff and STIC requirements, AFNWC is required to exercise alternative temporary facility options as well as delay filling critical mission positions. Due to the high classification of AFNWC workload and communications, work spaces must meet security requirements for classified open storage and classified networks. Most temporary facility options cannot satisfy these stringent security requirements without enormous expense. In addition, AFNWC pursued leased space off-base, but none exist that meet the stringent AT/FP requirements. In addition, the STIC, which must maintain direct communication (both secure and nonsecure) with key DoD and DOE leadership command centers and organizations, and provide state-of-the-art capabilities for immediate control, response, and crisis management, is currently operating out of shared space in the 377th Air Base Wing headquarters facility. Currently 18 STIC personnel in two shifts are working in a temporary 400 SF control center. This space is too small to support the 48 person end-state manning.

IMPACT IF NOT PROVIDED: Facility resources at Kirtland have been canvassed and existing facilities are fully utilized. There are only a few scattered spaces and they cannot accommodate the high security environment and specialized facilities the STIC and HQ AFNWC require. Without this project, the HQ AFNWC and the STIC will not have the facilities needed to perform their missions. They will continue to have deficient facilities and a scattered organization with degraded communications among components. Significant productivity loss (up to 60% based on a recent study) will also result due to decreased communication, collaboration, and synergy from non-adjacencies. As evidenced by the results of a recent nuclear surety inspection, deficient communication is negatively impacting AFNWC's ability to provide crucial technical and logistical expertise to preserve the reliability of the Nation's strategic stockpile.

ADDITIONAL: This project meets applicable criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." All known alternative options were considered during development of this project. No other option could meet mission requirements; therefore, no economic analysis was needed or performed. A certificate of exception has been approved. Sustainable principles shall be integrated into the design, development, and construction of this project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders. This project is the first phase of a two phase project. Phase two supports the facility requirements for the 498th Nuclear Surety Wing. Base Civil Engineer: Mr. D. Brent Wilson, P.E. (505) 846-7911. AFNWC Sustainment Center: 5310 SM = 57,150 SF.

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

2. DATE

3. INSTALLATION AND LOCATION
   KIRTLAND AIR FORCE BASE, NEW MEXICO

4. PROJECT TITLE
   AFNWC SUSTAINMENT CENTER

5. PROGRAM ELEMENT
   72976

6. CATEGORY CODE
   610-281

7. PROJECT NUMBER
   MHMV093108

8. PROJECT COST ($000)
   25,000

12. SUPPLEMENTAL DATA:
   a. Estimated Design Data:
      (1) Project to be accomplished by design-build procedures
      (2) Basis:
         (a) Standard or Definitive Design – NO
         (b) Where Design Was Most Recently Used –
      (3) All Other Design Costs  1,000
      (4) Construction Contract Award 12 JAN
      (5) Construction Start 12 MAR
      (6) Construction Completion 14 MAR
      (7) Energy Study/Life-Cycle analysis was/will be performed YES
   b. Equipment associated with this project provided from other appropriations:

      | EQUIPMENT NOMENCLATURE      | PROCUREMENT APPROPRIATION | FISCAL YEAR APPROPRIATED OR REQUESTED | COST ($000) |
      |-----------------------------|---------------------------|---------------------------------------|-------------|
      | FURNITURE & EQUIPMENT       | 3040                      | 2013                                  | 5,000       |
      | COMMUNICATIONS EQUIPMENT    | 3080                      | 2013                                  | 3,600       |
1. **COMPONENT**
2. **FY 2012 MILITARY CONSTRUCTION PROGRAM**
3. **DATE**

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<th>5. AREA CONST</th>
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6. **Personnel**

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7. **INVENTORY DATA ($000)**

- Total Acreage: 1,611
- Inventory Total as of: 30 Sep 10: 1,300,000
- Authorization Not Yet in Inventory: 9,000
- Authorization Requested in this Program: 6,000
- Planned in Next Four Years Program: 7,100
- Remaining Deficiency: 117,800
- Grand Total: 1,439,900

8. **PROJECTS REQUESTED IN THIS PROGRAM:** (FY2012)

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<th>SCOPE</th>
<th>COST $,000</th>
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<td>C-130 Flight Simulator</td>
<td>171-212</td>
<td>C-130 Flight Simulator</td>
<td>900 SM</td>
<td>$6,000</td>
<td>Apr 10</td>
<td>Sep 11</td>
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<td>Special Tactics Operations Facility</td>
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9a. **Future Projects: Typical Planned Next Four Years:**

- 141-454 Special Tactics Operations Facility: $7,100

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

- 70

10. **Mission or Major Functions:**

An airlift wing with five C-130 squadrons conducting operations and training—the only DoD C-130 training base; an Air Mobility Command airlift group with C-130 aircraft; an ANG C-130 airlift wing; and an AFRC aerial port squadron.

11. **Outstanding pollution and Safety (OSHA Deficiencies):**

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

DD Form 1390, 24 Jul 00
1. COMPONENT  AIR FORCE
2. DATE

3. INSTALLATION AND LOCATION  POPE AIR FORCE BASE, NORTH CAROLINA
4. PROJECT TITLE  C-130 FLIGHT SIMULATOR

5. PROGRAM ELEMENT  41115
6. CATEGORY CODE  171-212
7. PROJECT NUMBER  TMKH083003
8. PROJECT COST ($000)  6,000

9. COST ESTIMATES

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10. Description of Proposed Construction: Construct a two-story, Weapons System Trainer (WST) high-bay facility of reinforced concrete footings and floor, steel frame built to architectural standards. Support areas include classrooms, briefing rooms, secure rooms, offices, restrooms, storage, communications equipment room, electrical/mechanical room, and circulation. Includes fire detection/ suppression IAW regulations, demolishes an existing parking lot and includes construction of a replacement parking lot. Additionally, project includes relocating a main high voltage feeder and an underground communications line. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 70 Tons

PROJECT: C-130 Flight Simulator. (New Mission)

REQUIREMENT: A properly sized and configured area to accommodate a new six-axis C-130 flight simulator with adequate space for operational computers, briefing rooms, component and facility storage, classrooms, and instructor areas in support of the C-130 aircrew training program. This additional simulator will provide required and essential initial, qualification, proficiency, hazardous/emergency, and effective mission procedures training. Area must be securable to the Secret level and conform to the security architecture of the existing facility, meet requirements of APOSH 91-118 for new construction, and comply with C-130 Aircrew Training System Program Office physical security guidelines. The site for this facility is currently a 120 vehicle parking lot. Given very limited area parking, this project will construct a replacement lot. 10,000 CM of fill is required to construct the replacement lot on the only available site that has 45 degree slopes and a 15 foot grade differential.

CURRENT SITUATION: In December 2006 HQ AMC obtained approval to purchase new aircraft simulators and construct facilities in support of Mobility Air Forces (MAF) training requirements. However, there is no facility available that can
house the C-130 flight simulator.

IMPACT IF NOT PROVIDED: The simulator investment program is intended to reduce flying hours by converting actual flying training to the simulator. An expected simulator training tempo of 344 sorties at 1.7 hours per sortie will convert 585 cockpit flying hours, at $5,016 per flying hour, to produce annual savings of $2,934,600. When simulator availability is 1,080 hours per year it will produce annual savings of $5,417,280. In addition, increasing reliance on simulators lessens the maintenance requirements on aircraft that have been heavily taxed by nearly 17 years of continuous contingency operations. These two factors alone will provide an avenue for rapid payback of investment without impacting the training mission or sacrificing the quality of aircrew training. Without this project, the substantial rewards and cost savings will not be realized.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements. An economic analysis was prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive laws and orders. BCE: Lt Col Eric Warner, Commercial 910-394-2561.

C130 Flight Simulator: 900 SM = 9,688 SF.
1. COMPONENT  AIR FORCE
2. DATE

3. INSTALLATION AND LOCATION  POPE AIR FORCE BASE, NORTH CAROLINA
4. PROJECT TITLE  C-130 FLIGHT SIMULATOR

5. PROGRAM ELEMENT  41115
6. CATEGORY CODE  171-212
7. PROJECT NUMBER  TMKH083003
8. PROJECT COST ($000)  6,000

12. SUPPLEMENTAL DATA:
   a. Estimated Design Data:
      (1) Status:
         (a) Date Design Started  20-APR-10
         (b) Parametric Cost Estimates used to develop costs  YES
         * (c) Percent Complete as of 01 JAN 2011  15%
         * (d) Date 35% Designed  16-MAR-11
         (e) Date Design Complete  30-SEP-11
         (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 ($000) = (a) + (b) or (d) + (e):
         (a) Production of Plans and Specifications  360
         (b) All Other Design Costs  180
         (c) Total  540
         (d) Contract  450
         (e) In-house  90
      (4) Construction Contract Award  12 FEB
      (5) Construction Start  12 MAR
      (6) Construction Completion  13 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:

<table>
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<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCUREMENT APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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<td>INTERIOR FURNISHINGS</td>
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<td>2012</td>
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1. COMPONENT
   AIR FORCE

2. DATE

3. INSTALLATION AND LOCATION
   MINOT AIR FORCE BASE,
   NORTH DAKOTA

4. COMMAND:
   AIR COMBAT COMMAND

5. AREA CONST
   COST INDEX
   1.09

6. Personnel Strength

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7. INVENTORY DATA ($000)
   a. Total Acreage: 5,189
   b. Inventory Total as of: (30 Sep 10) 1,685,536
   c. Authorization Not Yet in Inventory: 80,270
   d. Authorization Requested in this Program: 67,800
   e. Planned in Next Four Years Program: 80,200
   f. Remaining Deficiency: 85,400
   g. Grand Total: 1,999,206

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2012)

<table>
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<tr>
<th>CATEGORY CODE</th>
<th>PROJECT TITLE</th>
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9a. Future Projects: Typical Planned Next Four Years:

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<td>Dormitory (168 RM)</td>
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<tr>
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9b. Real Property Maintenance Backlog This Installation: ($M) 98

10. Mission or Major Functions: A host bomb wing with B-52H aircraft, and an AF Space Command space wing with Minuteman III missiles.

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

DD Form 1390, 9 Jul 02
1. COMPONENT
AIR FORCE

2. DATE

3. INSTALLATION AND LOCATION
MINOT AIR FORCE BASE, NORTH DAKOTA

4. PROJECT TITLE
B-52 3-BAY CONVENTIONAL MUNITIONS MAINTENANCE FACILITY

5. PROGRAM ELEMENT
11113

6. CATEGORY CODE
216-642

7. PROJECT NUMBER
QJVF092010

8. PROJECT COST ($000)
11,800

9. COST ESTIMATES

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<td>CONTINGENCY (5.0%)</td>
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<td></td>
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<td></td>
<td>( 250 )</td>
</tr>
</tbody>
</table>

10. Description of Proposed Construction: Construct a 3-bay conventional munitions maintenance facility to include new foundation, walls, roof, HVAC, plumbing, electrical, communications support, fire suppression, parking, roadway, fencing, interior construction, compressed air, and all other required support elements. The facility will support 84 munitions personnel. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 20 Tons


PROJECT: B-52 3-Bay Conventional Munitions Maintenance Facility. (New Mission)

REQUIREMENT: A munitions maintenance facility is required to conduct maintenance operations including assembly, corrosion control, and time compliance technical order on various munitions components and containers. The facility is required to be located at a safe distance from other buildings and follow quantity/distance (Q/D) constraints. The facility will require blast proof construction techniques, conditioned work areas, and adequate parking for vehicles. The facility should have drive-through work bays, office space, tool room, a training room, and a ready room.

CURRENT SITUATION: Currently, a one-bay facility exists for munitions maintenance. The facility does not provide adequate space for existing munitions maintenance tasks and workloads. The facility was designed to support 20 personnel; however, 43 are assigned. This number has increased by 106 as a result of the B-52 squadron beddown. This creates an overcrowded working environment and results in a backlog of maintenance activities. The current facility also lacks the space to store the additional equipment required to perform munitions maintenance. Also, Q/D constraints prevent the expansion of the existing facility.
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA</th>
</tr>
</thead>
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<tr>
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<td>(computer generated)</td>
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<tr>
<td>2. DATE</td>
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</tr>
<tr>
<td>3. INSTALLATION AND LOCATION</td>
<td>4. PROJECT TITLE</td>
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<tr>
<td>MINOT AIR FORCE BASE, NORTH DAKOTA</td>
<td>B-52 3-BAY CONVENTIONAL MUNITIONS MAINTENANCE FACILITY</td>
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<tr>
<td>5. PROGRAM ELEMENT</td>
<td>6. CATEGORY CODE</td>
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<tr>
<td>11113</td>
<td>216-642</td>
</tr>
<tr>
<td>7. PROJECT NUMBER</td>
<td>8. PROJECT COST ($000)</td>
</tr>
<tr>
<td>QJVF092010</td>
<td>11,800</td>
</tr>
</tbody>
</table>

**IMPACT IF NOT PROVIDED:** The inability to perform timely maintenance on various types of munitions due to overcrowded working conditions or lack of maintenance space will prove detrimental to the wing’s mission. If the squadron is unable to maintain and load their munitions in a timely manner, this may cause a delay in mission accomplishment.

**ADDITIONAL:** This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." A preliminary analysis of reasonable options (status quo, renovation, new construction) for accomplishing the project was done. It indicates there is only one option that will meet operational requirements; new construction. Therefore, a certificate of exception has been prepared.

Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 12423, 10 USC 2803 (c) and other applicable laws and Executive Orders. Civil Engineer: LtCol Monte S. Harner, (701) 723-2434;

(Munitions Maintenance: 1,626 SM = 17,500 SF)

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

2. DATE
   (Computer generated)

3. INSTALLATION AND LOCATION
   MINOT AIR FORCE BASE, NORTH DAKOTA

4. PROJECT TITLE
   B-52 3-BAY CONVENTIONAL MUNITIONS MAINTENANCE FACILITY

5. PROGRAM ELEMENT
   11113

6. CATEGORY CODE
   216-642

7. PROJECT NUMBER
   QJVF092010

8. PROJECT COST ($000)
   11,800

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 472

      (4) Construction Contract Award 12 FEB

      (5) Construction Start 12 MAR

      (6) Construction Completion 13 SEP

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

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

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<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>FISCAL YEAR</th>
<th>COST ($000)</th>
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</thead>
<tbody>
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<tr>
<td>FURNISHINGS</td>
<td>3400</td>
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119
### 9. COST ESTIMATES

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<th>U/M</th>
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<th>Unit</th>
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<tr>
<td>2-BAY MAINTENANCE DOCK</td>
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<td>8,025</td>
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<td>PAVEMENTS</td>
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<td>SITE IMPROVEMENTS</td>
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<tr>
<td>COMMUNICATION SUPPORT</td>
<td>LS</td>
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<td><strong>SUBTOTAL</strong></td>
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<td>Supervision, Inspection and Overhead (5.7%)</td>
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<td><strong>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</strong></td>
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</table>

### 10. Description of Proposed Construction

Reinforced concrete foundation with floor slab, steel frame, standing seam metal roof, utilities, pavements, site improvements, fire detection/suppression, communication support, and all other necessary support. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

**Air Conditioning**: 8 Tons

**Requirement**: 31599 SM Adequate: 11134 SM Substandard: 9585 SM

**PROJECT**: 2-Bay Phase Maintenance Dock. (New Mission)

**REQUIREMENT**: A 2-bay phase maintenance dock that can fully enclose 2 B-52s is required to support the missions of 2 bomb squadrons. For increased mission support, there will be storage for tools in a tool crib, as well as storage for bench stock. Hoists are required over nose and wing areas for routine maintenance requirements. Fall restraint systems are required in the dock areas to prevent maintenance crew injuries. As hazardous materials are present, a waste containment area separate from the bay area is required to store hazardous materials, including an oil/water separator. In addition to the dock space, office space for supervisory personnel, a computer room for maintenance personnel, and locker rooms will be required to support the 24/7 operations. This project will comply with antiterrorism/force protection requirements of DoD Uniform Facilities Criteria.

**CURRENT SITUATION**: There is only one dock currently located at Minot AFB that can completely enclose a B-52. This situation results in extreme work conditions for maintenance crews during the long winter months. The lack of additional dock space also prevents certain types of maintenance from being performed on more than one aircraft at a time due to the inability to pull the entire aircraft into a dock. Current docks also lack certain life safety features such as the fall restraint system, which leads to hazardous work conditions. The addition of ten B-52s to the base will require more maintenance to be performed on a daily basis. This increase...
## IMPACT IF NOT PROVIDED:
The reassignment of 10 additional B-52s will increase maintenance requirements to complete flight missions. The construction of a Two Bay Phase Maintenance Dock will allow for sharing of equipment and personnel between squadrons. This will allow for streamlining of training and maintenance procedure, alleviating downtime due to equipment breakage and low personnel manning. Two completely enclosed bays are needed due to the harsh winter climate of Minot AFB. Temperatures can reach below -50 for extended periods of time. Exposure to these elements is a safety hazard to personnel and aircraft, and critical maintenance would not be performed, crippling the capabilities of Minot AFB to support the nuclear mission of the USAF.

## ADDITIONAL:
This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements." A preliminary analysis of reasonable options (status quo, renovation, new construction) for accomplishing the project was done. It indicates there is only one option that will meet operational requirements; new construction. Therefore, a certificate of exception has been prepared.

Sustainable principles, to include Life-Cycle cost effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 12423, 10 USC 2803 (c) and other applicable laws and Executive Orders. Civil Engineer: LtCol Monte S. Harner, (701) 723-2434; (Maintenance Dock: 8,025 SM = 86,380 SF).

**JOINT USE CERTIFICATION:** Mission requirements, operational considerations, and location are incompatible with use by other components.
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
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</tr>
</thead>
<tbody>
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<tr>
<td>3. INSTALLATION AND LOCATION</td>
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<td>4. PROJECT TITLE</td>
<td>B-52 TWO-BAY PHASE MAINTENANCE DOCK</td>
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<td>8. PROJECT COST ($000)</td>
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</table>

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

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

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

(3) All Other Design Costs 1,360

(4) Construction Contract Award 12 FEB

(5) Construction Start 12 MAR

(6) Construction Completion 14 MAR

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

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

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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<tr>
<td>COMMUNICATIONS EQUIPMENT</td>
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**1. COMPONENT** | FY 2012 MILITARY CONSTRUCTION PROJECT DATA  
| AIR FORCE | (computer generated)  

**2. DATE**  

**3. INSTALLATION AND LOCATION** | **4. PROJECT TITLE**  
| MINOT AIR FORCE BASE, NORTH DAKOTA | DORMITORY (168 RM)  

**5. PROGRAM ELEMENT** | **6. CATEGORY CODE** | **7. PROJECT NUMBER** | **8. PROJECT COST ($000)**  
| 27576 | 721-312 | QJVF092001 | 22,000  

**9. COST ESTIMATES**  

| ITEM | U/M | QUANTITY | UNIT | COST ($000) | 
| PRIMARY FACILITIES | | | |  
| DORMITORY (168 RM) | SM | 6,384 | 2,579 | 16,814  
| SDD & EPACT 05 | LS | | | (350)  
| SUPPORTING FACILITIES | | | |  
| UTILITIES | LS | | | (516)  
| SITE IMPROVEMENTS | LS | | | (358)  
| PAVEMENT | LS | | | (609)  
| DEMOLITION | SM | 4,667 | 110 | (513)  
| ASBESTOS ABATEMENT | LS | | | (410)  
| SPECIAL FOUNDATION | LS | | | (225)  
| COMMUNICATION SUPPORT | LS | | | (119)  
| SUBTOTAL | | | | 19,565  
| CONTINGENCY (5.0%) | | | | 978  
| TOTAL CONTRACT COST | | | | 20,543  
| SUPERVISION, INSPECTION AND OVERHEAD (5.7%) | | | | 1,171  
| TOTAL REQUEST | | | | 21,714  
| TOTAL REQUEST (ROUNDED) | | | | 22,000  
| EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) | | | | (1,128.0)  

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, brick masonry walls, standing seam metal roof, site improvements, utilities, fire detection/protection, landscaping, pavements, ground-source heat pump, special foundation system that includes: minimum excavated depth of 10', select compacted fill and drilled piers or piles; communication support, demolition of existing dorms (4,667 SM), asbestos abatement, and all other necessary support. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.  

Air Conditioning: 120 Tons  


PROJECT: 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 complex and important jobs these people perform. The retention of these highly trained airmen is essential to our readiness posture and continuing world-wide presence. This project is in accordance with the 2008 Air Force Dormitory Master Plan approved for Minot AFB.  

CURRENT SITUATION: Minot AFB total facility condition (dormitory) score is 0.935 (Tier 1) on a scale of 0 to 5; 5 being the best (March 2008). Dorm facilities do not conform to current ATFP standards for standoff or building specifications. Access roads and adjacent parking areas are in poor condition. Very few common areas are available, discouraging positive social interaction. Sewer lines are in poor condition and are inadequate to service the existing dorms. Ventilation in the
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA</th>
</tr>
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<tbody>
<tr>
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<tr>
<th>3. INSTALLATION AND LOCATION</th>
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<table>
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<th>4. PROJECT TITLE</th>
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<tr>
<td>DORMITORY (168 RM)</td>
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<th>5. PROGRAM ELEMENT</th>
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<table>
<thead>
<tr>
<th>8. PROJECT COST ($000)</th>
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<tbody>
<tr>
<td>22,000</td>
</tr>
</tbody>
</table>

bedrooms and bathrooms is very poor or nonexistent. Aging water and sewer lines experience frequent breaks during freeze/thaw cycles, eroding the quality of life for residents.

IMPACT IF NOT PROVIDED: Failure to provide new dorms will result in already high maintenance and repair costs ($17.9M since 2004) escalating even further with today's problems likely to lead to health and safety issues for our Airmen. Dorms will continue to violate ATFP standards. The average age of Minot AFB's dormitories is 46.3 years. This request will replace 1 dormitory built in 1958 and 1 dormitory build in 1975. Minot's unaccompanied Airmen carry out the mission in one of the harshest winter climates in the continental United States, only to return home to substandard housing. There are no individual temperature controls for heat in the winter, there is no air conditioning in the summer and winter water breaks leave them showering at the fitness center. Additionally, success in the Military Family Housing MILCON program has created a huge standard of living gap between married and single Airmen. Morale and retention are negatively affected by these conditions.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements", and the Air Force Dormitory Design Guide. A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/removal, new construction) was done. It indicates there is only one option that will meet operational requirements; new construction. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive orders.

Unaccompanied Housing RPM conducted: FY09, $14.121K; FY10, $105K; FY11, $643K; FY12, $3,625K; FY13, $5,012K. Base Civil Engineer: Monte S. Harner, Lt Col, USAF, (701) 723-2434. (Dormitory (168 Rm): 6,384 SM = 68,717 SF)

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

2. DATE

3. INSTALLATION AND LOCATION
MINOT AIR FORCE BASE, NORTH DAKOTA

4. PROJECT TITLE
DORMITORY (168 RM)

5. PROGRAM ELEMENT
27576

6. CATEGORY CODE
721-312

7. PROJECT NUMBER
QJVF092001

8. PROJECT COST ($000)
22,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
   (a) Date Design Started 01-JUL-10
   (b) Parametric Cost Estimates used to develop costs YES
   * (c) Percent Complete as of 01 JAN 2011 15%
   * (d) Date 35% Designed 16-MAR-11
   (e) Date Design Complete 30-SEP-11
   (f) Energy Study/Life-Cycle analysis was/will be performed YES

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

(3) Total Cost (c) = (a) + (b) or (d) + (e): ($000)
   (a) Production of Plans and Specifications 1,320
   (b) All Other Design Costs 660
   (c) Total 1,980
   (d) Contract 1,650
   (e) In-house 330

(4) Construction Contract Award 12 FEB

(5) Construction Start 12 APR

(6) Construction Completion 13 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:

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR</th>
<th>COST ($000)</th>
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</thead>
<tbody>
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<td>3400</td>
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1. COMPONENT
   AIR FORCE

2. DATE

3. INSTALLATION AND LOCATION
   JB SAN ANTONIO - FORT SAM HOUSTON
   TEXAS

4. COMMAND:
   AIR EDUCATION AND TRAINING COMMAND

5. AREA CONST
   COST INDEX
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   STUDENTS
   SUPPORTED

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<td>612</td>
<td>8,179</td>
<td>5,989</td>
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</table>

7. INVENTORY DATA ($000)
   a. Total Acreage: 30,929
   b. Inventory Total as of: (30 Sep 10) 2,313,441
   c. Authorization Not Yet in Inventory: 1,457,425
   d. Authorization Requested in this Program: 46,000
   e. Planned in Next Four Years Program: 13,800
   f. Remaining Deficiency: 218,000
   g. Grand Total: 4,048,666

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2012)
   CATEGORY
   CODE
   PROJECT TITLE
   SCOPE $,000
   COST
   DESIGN
   STATUS
   START
   CMPL
   721-311
   AIT Barracks (300 Rm)
   16,287 SM
   46,000 Design-Build
   Total 46,000
   9a. Future Projects: Typical Planned Four Years:
   740-674
   Fitness Center
   13,800
   Total 13,800

9. Real Property Maintenance Backlog This Installation ($M) 32

10. Mission or Major Functions: Fort Sam Houston's mission is to provide quality service, training and support to soldiers and community. Fort Sam is known as the Home of Army Medicine and serves as a headquarters, mobilization and training site and provider of medical support. The installation houses Brooke Army Medical Center, Headquarters Dental and Veterinary Commands, the Institute of Surgical Research (trauma/burn center) and the Defense Medical Readiness Training Institute (DMRTI). Fort Sam Houston's Army Medical Department Center and School trains over 25K students attending 170 officer, NCO and enlisted courses in 14 medical specialties. The installation is a dynamic and growing installation with additional missions such as; The Army Medical Command headquarters, Fifth U.S. Army, U.S. Army South, U.S. Navy Regional Recruiting, the San Antonio Military Entrance and Processing Station and the U.S. Naval School of Heath Sciences in San Diego.

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: AIR FORCE
2. DATE:

3. INSTALLATION AND LOCATION: JB SAN ANTONIO - FT SAM HOUSTON, TEXAS
4. PROJECT TITLE: AIT BARRACKS (300 RM)

5. PROGRAM ELEMENT: 85976
6. CATEGORY CODE: 721-313 MPLS11473JB
7. PROJECT NUMBER: 8. PROJECT COST ($000): 46,000

9. COST ESTIMATES

<table>
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<tr>
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<th>COST ($000)</th>
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10. Description of Proposed Construction: Construct an Advanced Individual Trainee (AIT) Training Barracks. The barracks will be structural steel frame with modular inserts and will tie into a central energy plant to provide heating and air conditioning. The facility will be connected through the post-wide Local Area Network, for both energy monitoring and control, to the Utility Monitoring and Control System. Project demolishes 10,355 SM. Project complies with DoD minimum antiterrorism/force protection measures per the Unified Facilities Criteria.

Air Conditioning: 1,200 Tons

11. Requirement: 4537 PN Adequate: 1092 PN Substandard: 0 PN

PROJECT: Construct AIT Barracks. (Current Mission)

REQUIREMENT: This project is required for Fort Sam Houston Army Medical Center and School (AMEDD C&S) to house and provide the Advanced Individual Trainee with a modern living and working environment that meets today's needs.

CURRENT SITUATION: The AIT soldiers are currently housed in permanent barracks of the "Starship" design type. These facilities were built in 1989 and have not received any major renovations. The existing living space available to the soldier is not in accordance with the current standards for trainee barracks. The barracks layout is not adequate for separation of gender according to today's standards. The building systems (electrical, plumbing, HVAC) have exceeded the useful life cycle and are failing. The interior finishes are peeling, discolored, damaged, and worn. In addition, the laundry rooms within the barracks do not provide enough space to support the required number of washers and dryers required for the population of the barracks.

IMPACT IF NOT PROVIDED: If this project is not provided, Fort Sam Houston will continue to house trainees in facilities that are failing and do not provide an adequate sleeping and living environment. The existing condition of the utility...
# FY 2012 Military Construction Project Data

<table>
<thead>
<tr>
<th>1. Component</th>
<th>2. Date</th>
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<td>JB San Antonio - FT Sam Houston, Texas</td>
<td>AIT Barracks (300 RM)</td>
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<td>85976</td>
<td>721-313</td>
<td>MPLS11473JB</td>
<td>46,000</td>
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Additional: This project meets the Army Standard for the design and construction of AIT Complexes and AFH 32-1084, Facility Requirements. This project has been coordinated with the installation physical security plan, and all physical security measures are included. Alternative methods of meeting this requirement have been explored during project development. This project is the only feasible option to meet the requirement. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of this project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Director of Public Works: Mr. Michael Grizer, (210) 221-5439; AIT Barracks (300 RM): 16,287 SM = 175,304 SF.

Joint Use Certification: The Deputy Assistant Secretary of the Army (Installations and Housing) certifies that this project has been considered for Joint Use potential. The facility will be available for use by other components.
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<td>JB SAN ANTONIO - FT SAM HOUSTON, TEXAS</td>
<td>AIT BARRACKS (300 RM)</td>
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<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
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<td>85976</td>
<td>721-313</td>
<td>MPLS11473JB</td>
<td>46,000</td>
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</table>

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

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

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

(3) All Other Design Costs 1,840

(4) Construction Contract Award 12 FEB

(5) Construction Start 12 MAR

(6) Construction Completion 14 MAR

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

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

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<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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1. COMPONENT: AIR FORCE
2. FY 2012 MILITARY CONSTRUCTION PROGRAM

3. INSTALLATION AND LOCATION: JB SAN ANTONIO - LACKLAND AFB
   TEXAS

4. COMMAND: AIR EDUCATION AND TRAINING COMMAND

5. AREA COST INDEX: 0.94

6. Personnel

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7. INVENTORY DATA ($000)
   a. Total Acreage: 7,454
   b. Inventory Total as of: (30 Sep 10) 4,073,379
   c. Authorization Not Yet in Inventory: 297,862
   d. Authorization Requested in this Program: 64,000
   e. Planned in Next Four Years Program: 231,300
   f. Remaining Deficiency: 793,577
   g. Grand Total: 5,460,118

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2012)

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<th>CMPL</th>
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<td>721-311</td>
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<td>Sep 11</td>
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9a. Future Projects: Typical Planned Four Years:
- 100-001 Recruit Dormitory Phase 4: 63,000
- 100-001 Recruit Dormitory Phase 5: 65,000
- 100-001 Recruit Dormitory Phase 6: 66,000
- 141-456 33rd Network Warfare SQ Ops Fac Phase 1: 11,400
- 730-773 Interfaith Religious Center: 15,500
- 730-835 Security Forces Consolidated Ops Facility Ph 1: 10,400
- Total: 231,300

9b. Real Property Maintenance Backlog This Installation ($M) 76


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
10. Description of Proposed Construction: Construction includes a multi-story facility consisting of a drilled pier foundation, suspended concrete floor slabs, reinforced concrete frame, interior masonry walls, exterior pre-cast concrete panels, standing seam metal roof, and an elevator. Areas include administrative support, open-bay dormitories, central latrines, drill pads, physical training areas, and storage. Reconstructs Gary Ave on the East side of the first BMT Campus and completes the work of this Northeast Campus. Demolishes facilities totaling 22,018 SM (237,000 SF). Provides all necessary support and restores all areas disturbed by construction. Complies with DoD minimum anti-terrorism/force protection measures per the Unified Facilities Criteria.

Air Conditioning: 450 Tons


PROJECT: Construct Recruit Dormitory (Current Mission)

REQUIREMENT: A major Air Force objective is to provide recruits with facilities conducive to their proper housing, dining, and training. Properly sized, sited, designed, and furnished facilities are essential to successfully train future Air Force enlisted personnel. To support current accession rates, a total of 8 Recruit Housing & Training (RH&T) facilities are required to accomplish the Basic Military Training (BMT) mission at Lackland AFB. This project provides the fourth Airmen Training Complex (ATC) dormitory building in the RH&T Replacement program. This ATC facility will house a BMT Squadron including dormitory and administrative space. This project is designed to accommodate 1248 recruits; 48 recruit...
flight, 24 flights per squadron, with 4 reserve bed spaces per flight in order to address surges, gender separation and injured recruits. This project will also construct a new drill pad, running track, exercise areas, war skills training areas, and a pavilion for training weapons cleaning, storage, and latrines. It builds two soccer fields that were displaced by the construction project.

Construction of the fourth BMT dormitory building completes the work on the first BMT Campus of the RH&T Replacement Plan and builds any remaining sidewalks, troopwalks, knee-walls, landscaping, courtyard features, and roads to finish this BMT campus. Project builds Troop Bridge abutments on the East BMT Campus and relocates overhead electrical power lines underground along Luke Blvd.

CURRENT SITUATION: RH&T facilities, the BMT program, and Lackland AFB form an initial, but lasting impression of the Air Force to all new recruits. Existing 220,000 SF RH&T facilities, originally constructed in the 1960's and 1970's, were designed to provide housing, dining, classrooms, and other training space in one facility in order to develop teamwork, discipline, and Espirit de corps among the recruits. These facilities are outdated and are inadequate to support current and planned accessions of Air Force Active Duty, Reserve, and Air National Guard personnel considering future force structure and strength. Due to deterioration, age, and exceeding their useful life, the RH&Ts require significant O&M capital to keep them operational -- an estimated annual average of $2.1M per RH&T ($16.8M for today's 8 RH&Ts) for the next 28 years according to the facility assessment study and detailed Economic Analysis. Available training hours, training quality, cohesiveness, and Espirit de corps are degraded as a direct result of decentralized BMT facilities and functions. A centralized, master planned, BMT campus does not exist. BMT has difficulty accommodating summer recruit surges while accomplishing maintenance, repair and renovation projects of the aging, inadequate, and substandard RH&Ts. Recruits do not have the minimum standard square footage during surge and overhaul periods forcing as many as 65 recruits per flight in facilities designed for 50 recruits per flight. This further stresses infrastructure systems and accelerates deterioration. The fire protection system is inadequate and obsolete. The mechanical, electrical, lighting systems, and interior finishes are at the end of their useful lives and require replacement. The food preparation, serving areas, and laundry area layouts are functionally inefficient and need to be centralized to improve efficiency and accommodate new equipment.

IMPACT IF NOT PROVIDED: One of Lackland Air Force Base's primary missions is to educate and train every Basic Military Training (BMT) enlisted recruit when entering military service in the U.S. Air Force. Without quality BMT programs and state-of-the-art, master-planned facilities, the Air Force will have difficulty recruiting, training, and retaining new recruits. BMT schedules will continue to be stretched to critical levels that risk mission loss. Facilities will continue to age and will require increasingly more capital to keep them operational. During surge periods, or when existing RH&Ts are being repaired, maintained, or overhauled, flight sizes will increase and recruits will continue to live in space with less than the minimum standard square footage per recruit. Significant capital must be spent to convert the existing RH&T facilities to current antiterrorism/force protection (AT/FP) criteria. Gary Ave. must be rebuilt so that Lackland main base has an alternate North-South road.

ADDITIONAL: This project meets the criteria/scope for recruit housing specified in Air Force Handbook 32-1084, "Standard Facility Requirements Handbook." The new OSD dormitory standard does not apply to this facility. It is excluded as a recruit dormitory. Fire protection systems for this project meet new standards established in MIL-1008C, "Fire Protection Facilities." A full Economic Analysis was performed demonstrating the economic advantage of new construction to meet the program requirements. Based on the net present value and benefits of prospective alternatives, new construction was found to have the best overall ratio of lifecycle cost vs. benefit. Furthermore, the Economic Analysis indicates that...
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| 2. DATE       |                                          |

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<th>8. PROJECT COST ($000)</th>
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<tr>
<td>85976</td>
<td>721-311</td>
<td>MPLS083737R4</td>
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Constructing new RH&T facilities within the next 10 years will avoid an anticipated major investment in maintenance and repair that is projected through 2040. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2803 (c) and other applicable laws and executive orders. BASE CIVIL ENGINEER: Lt Col Ardyce Clements, (210) 671-2977. BMT Recruit Dormitory: 19,900 SM = 214,195 SF, MTI Admin: 1,225 SM = 13,185 SF, Training/Formation: 3,282 SM = 35,326 SF.

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

2. DATE
FY 2012 MILITARY CONSTRUCTION PROJECT DATA (computer generated)

3. INSTALLATION AND LOCATION
JB SAN ANTONIO - LACKLAND AFB, TEXAS

4. PROJECT TITLE
BMT RECRUIT DORMITORY 4, PHASE 4

5. PROGRAM ELEMENT
85976

6. CATEGORY CODE
721-311

7. PROJECT NUMBER
MPLS083737R4

8. PROJECT COST ($000)
64,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

   (1) Status:
   (a) Date Design Started 01-APR-10
   (b) Parametric Cost Estimates used to develop costs YES
   * (c) Percent Complete as of 01 JAN 2011 15%
   * (d) Date 35% Designed 16-FEB-11
   (e) Date Design Complete 01-SEP-11
   (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 650
   (b) All Other Design Costs 1,300
   (c) Total 1,950
   (d) Contract 1,625
   (e) In-house 325

   (4) Construction Contract Award 12 FEB
   (5) Construction Start 12 MAR
   (6) Construction Completion 14 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:

<table>
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## FY 2012 MILITARY CONSTRUCTION PROGRAM

### 3. INSTALLATION AND LOCATION
- **AIR FORCE**
- **HILL AIR FORCE BASE**
- **UTAH**

### 4. COMMAND:
- **AIR FORCE MATERIEL COMMAND:**

### 5. AREA COST INDEX
- **COST INDEX:**

### 6. Personnel Strength

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### 7. INVENTORY DATA ($000)
- **a. Total Acreage:** 6,797
- **b. Inventory Total as of:** (30 Sep 10) 4,322,858
- **c. Authorization Not Yet in Inventory:** 90,041
- **d. Authorization Requested in this Program:** 16,500
- **e. Planned in Next Four Years Program:** 125,400
- **f. Remaining Deficiency:** 361,500
- **g. Grand Total:** 4,916,299

### 8. PROJECTS REQUESTED IN THIS PROGRAM:

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**Total 16,500**

### 9a. Future Projects: Typical Planned In Next Four Years:
- **116-662** Install New PCC Apron (Hot Pad 8) 9,200
- **141-764** Non-Secure Software Engineering Development Facility 12,200
- **211-153** Robotic NDI Facility 15,100
- **216-642** 649 MUNS STAMP/M&I Facility 16,400
- **317-315** 388 RANS Mission Control Center 20,500
- **721-312** Dormitory (120 RM) 20,500
- **721-312** Dormitory (120 RM) 20,500
- **831-155** New Industrial Waste Water Treatment Plant 11,000

**Total 125,400**

### 9b. Real Property Maintenance Backlog This Installation: ($M)
- **138.9**

### 10. Mission or Major Functions:
- Hill Air Force Base is home to many operational and support missions with Ogden Air Logistics Center (OO-ALC) serving as host organization. The center provides world wide engineering and logistics management for the F-16 Fighting Falcon, A-10 Thunderbolt II and Minuteman III intercontinental ballistic missile. The base performs depot maintenance for F-16, C-130, and F-22 aircraft.

### 11. Outstanding pollution and Safety (OSHA) Deficiencies:
- **a. Air pollution:** 0
- **b. Water Pollution:** 0
- **c. Occupational Safety and Health:** 0
- **d. Other Environmental:** 0
1. COMPONENT: AIR FORCE
2. DATE: (computer generated)

3. INSTALLATION AND LOCATION: HILL AIR FORCE BASE, UTAH
4. PROJECT TITLE: F-22 SYSTEM SUPPORT FACILITY

5. PROGRAM ELEMENT: 27138
6. CATEGORY CODE: 610-675
7. PROJECT NUMBER: KRSM123011R
8. PROJECT COST ($000): 16,500

9. COST ESTIMATES

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<td>CONTINGENCY (5.0%)</td>
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<td>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</td>
<td></td>
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<td>(2,000)</td>
</tr>
</tbody>
</table>

10. Description of Proposed Construction: Two story steel frame facility, reinforced masonry exterior walls, concrete slab on grade, reinforced concrete footings, and insulated standing seam metal roof. Provide administrative space and office areas for F-22 Systems Support Office operations and supervision. Project includes break rooms, classified conference/training rooms, classified video teleconferencing (VTC) capability, large secured conference room to accommodate 150 people, and classified records and equipment storage. Provide fire detection/suppression, intrusion detection, and all other supporting facilities for a complete and usable secured administrative support facility for the F-22 Systems Support Office. Will also include utilities, parking lot/pavements, parking lot lighting, site improvements, and fencing. Antiterrorism/force protection measures will comply with DoD standards.

Air Conditioning: 100 Tons

11. Requirement: 3875 SM Adequate: 486 SM Substandard: 0 SM

PROJECT: F-22 System Support Facility. (New Mission)

REQUIREMENT: A new administrative support facility is required to accommodate approximately 210 personnel. The work load from the F-22 System Program Office (SPO) will be relocating from Aeronautical Systems Center (ASC) at Wright-Patterson AFB, Ohio to Hill AFB, Utah, as ever increasing F-22 sustainment responsibilities transition to 508th Aerospace Sustainment Wing (ASW). Among the 210 personnel to occupy the proposed facility will be Air Force personnel from various organizations as F-22 oversight responsibilities transition from contractor-led to government owned. The goal is to col locate the F-22 maintenance personnel located in bldg. 674, with fleet management, sustainment, engineering, field support, and all other respective sustainment functions to be housed in a facility located adjacent to building 674.

CURRENT SITUATION: Currently there are no facilities on the east side of Hill AFB.
where the F-22 depot work is performed. Most of the existing facilities are on the west side of the runway which does not meet the user's requirements of being collocated with the F-22 complex on the east side of the runway. In addition, off base facilities were not considered because it did not meet the user's requirement to collocate these functions with the F-22 complex on the east side of runway. Both the west side and off base facilities could not meet response procedures/timeline of the depot repair or modification functions.

**IMPACT IF NOT PROVIDED:** Without this facility, F-22 SPO functions will not be able to relocate to Hill AFB, where the majority of the Depot Repair or Modification (DRM) for the F-22 fighter aircraft is currently taking place. The process efficiencies and synergy which would be gained by collocating fleet management, engineering, field support, and all respective sustainment functions associated with the DRM functions will be lost. Without adequate facilities, the Air Force may be forced to contract with the F-22 manufacturer in order to meet DRM goals. This will most likely be at a much higher cost than could be done in-house, and may exceed the 50/50 rule mandated by Congress.

**ADDITIONAL:** This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements," Chapter 12, para. 12.12.2. A preliminary analysis of reasonable options for satisfying the requirement (status quo, occupying existing on base facilities, new construction, etc.) was done. The conclusion was that new construction is the only option that will fully satisfy the operational requirements. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of this project in accordance with Executive Order 13423, 10 USC 280 (c) and other applicable laws and executive orders. Base Civil Engineer: Mr. Harry Briesmaster III (801) 777-7505. F-22 Mission Support Facility: 3,389 SM = 36,480 SF

**JOINT USE CERTIFICATION:** Mission requirements, operational considerations, and location are incompatible with use by other components.
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA</th>
<th>2. DATE</th>
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<tbody>
<tr>
<td>AIR FORCE</td>
<td>(computer generated)</td>
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<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE</th>
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<tbody>
<tr>
<td>HILL AIR FORCE BASE, UTAH</td>
<td>F-22 SYSTEM SUPPORT FACILITY</td>
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<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
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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 660

(4) Construction Contract Award 12 FEB

(5) Construction Start 12 MAR

(6) Construction Completion 13 NOV

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

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

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<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
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1. COMPONENT
AIR FORCE

2. DATE
3. INSTALLATION AND LOCATION
HILL AIR FORCE BASE, UTAH

4. PROJECT TITLE
F-35 ADAL HANGAR 45E/AMU

5. PROGRAM ELEMENT
27142

6. CATEGORY CODE
211-111

7. PROJECT NUMBER
KRSM103011

8. PROJECT COST ($000)
6,800

9. COST ESTIMATES

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<td>( 650 )</td>
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</table>

10. Description of Proposed Construction: Additions include reinforced concrete foundations and floor slabs, structural steel frame, fire detection/protection, utilities, pavements, site improvements, landscaping, communication support, and all other necessary support. The project provides all required supporting facilities for a complete and usable primary facility. It will comply with all DoD Force Protection requirements per Unified Facilities Criteria.

Air Conditioning: 75 Tons


PROJECT: F-35 ADAL Hangar 45E/AMU. (New Mission)

REQUIREMENT: Provide a sufficiently sized Aircraft Maintenance Unit (AMU) and fighter aircraft repair hangar for a squadron of twenty-four F-35A fighter aircraft by adding to and altering the east side of bldg 45. Extend existing east hangar portion of bldg 45 thirty feet to the north and install new hangar doors to meet maintenance requirements unique to the F-35A Joint Strike Fighter. Renovate the AMU portion of the facility to support the Autonomic Logistics Information System (ALIS) system and to ensure necessary security upgrades are in place. Ensure also that all required maintenance brief/de-brief areas are provided.

CURRENT SITUATION: The AF has announced Hill AFB as the preferred site alternative for the first and second squadrons of the F-35A fighter aircraft. This requirement supports the second squadron’s requirement for an AMU and hangar. The second squadron’s aircraft are expected to begin arriving in FY14. The final force structure is three 24 aircraft fighter squadrons. There are currently insufficient facilities at Hill AFB to accommodate this new mission bed-down. The east maintenance hangar portion of bldg 45 does not have the adequate depth to accomplish the various maintenance requirements on the F-35A, specifically engine removal/replacement and overall maintenance functions. This problem already exists.
for the F-16 squadrons currently using bldg 45. The existing east AMU portion of bldg 45 is not suitable at all in terms of condition and layout. The floor plan must be reconfigured for efficiencies and renovation is required.

**IMPACT IF NOT PROVIDED:** Without this project, the 388th FW will not be able to receive delivery of the F-35A in any significant numbers. Without the hangar extension, effective engine maintenance for the F-35A cannot be performed; proper security measures cannot be maintained; and support equipment will have to be stored outdoors subject to harsh weather conditions. The AMU must be renovated so that functions can be performed adequately and efficiently.

**ADDITIONAL:** This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements Plan" and the F-35 Facilities Requirement Plan. A preliminary analysis of reasonable alternatives to this project was conducted and it was determined that adding to and altering bldg 45 was the most cost effective option in order to accomplish the mission. A certificate of exception has been prepared. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the project design, development and construction in accordance with Executive Order 13423, 10 USC 2802(c) and all other applicable laws and Executive Orders. Base Civil Engineer: Mr. Harry Briesmaster III (801) 777-7505. Hangar Addition: 543 SM = 5,842 SF; Hangar Alteration: 1,035 SM = 11,136 SF; AMU Alteration: 1,425 SM = 15,333 SF.

**JOINT USE CERTIFICATION:** Mission requirements, operational considerations, and location are incompatible with use by other components.
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<th>2. DATE</th>
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<tr>
<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE</th>
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<td>HILL AIR FORCE BASE, UTAH</td>
<td>F-35 ADAL HANGAR 45E/AMU</td>
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<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
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<tr>
<td>27142</td>
<td>211-111</td>
<td>KRSM103011</td>
<td>6,800</td>
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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 272

(4) Construction Contract Award 12 FEB

(5) Construction Start 12 MAR

(6) Construction Completion 14 JAN

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

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

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<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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AIR FORCE

2. DATE

3. INSTALLATION AND LOCATION
JB LANGLEY-EUSTIS, FORT EUSTIS
VIRGINIA

4. COMMAND:
AIR COMBAT COMMAND

5. AREA CONST COST INDEX
0.97

6. Personnel Strength

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7. INVENTORY DATA ($000)

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<td>(30 Sep 10)</td>
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<td>c. Authorization Not Yet</td>
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<tr>
<td>d. Authorization Requested</td>
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</tr>
<tr>
<td>in this Program:</td>
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</tr>
<tr>
<td>e. Planned in Next Four</td>
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<td>Years Program:</td>
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<tr>
<td>f. Remaining Deficiency:</td>
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<td>g. Grand Total:</td>
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8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2012)

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<th>SCOPE</th>
<th>COST $,000</th>
<th>DESIGN</th>
<th>STATUS</th>
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<tr>
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9a. Future Projects: Typical Planned Next Four Years:

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<td>Fuel System Maintenance Dock</td>
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<td>610-249</td>
<td>Air Base Wing Headquarters Facility</td>
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<td>721-312</td>
<td>Dormitory (168 Rm)</td>
<td>RM</td>
<td>22,000</td>
</tr>
</tbody>
</table>

9b. Real Property Maintenance Backlog This Installation: ($M) 84

10. Mission or Major Functions: Headquarters Air Combat Command; a fighter wing with F-22A and F-15 fighters; an airlift flight; an intelligence group; Aerospace Command and Control Intelligence, Surveillance and Reconnaissance Center (AC2ISRC), Detachment of the USAF Doctrine Center; and the Air Force Rescue Coordination Center.

11. Outstanding Pollution and Safety (OSHA Deficiencies):

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
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<td>b. Water Pollution</td>
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<tr>
<td>c. Occupational Safety and Health</td>
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<td>d. Other Environmental</td>
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DD Form 1390, 9 Jul 02
TABLE 1

1. COMPONENT
AIR FORCE

2. DATE

3. INSTALLATION AND LOCATION
H&U LANGLEY, VA

4. PROJECT TITLE
AIT BARRACKS COMPLEX, PHASE 2

5. PROGRAM ELEMENT
27576

6. CATEGORY CODE
721-313 WACC120007

7. PROJECT NUMBER

8. PROJECT COST ($000)
50,000

9. COST ESTIMATES

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<th>QUANTITY</th>
<th>UNIT COST</th>
<th>COST ($000)</th>
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10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, brick masonry walls, standing seam metal roof, site improvements, utilities, fire detection/protection, landscaping, pavements, special foundation system including: select compacted fill and drilled piers; communication support, demolition of nine buildings (4,222 SM), asbestos abatement and all other necessary support. This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

Air Conditioning: 650 Tons

11. Requirement: 2305 PN Adequate: 332 PN Substandard: 1181 PN

PROJECT: AIT Barracks Complex, Phase 2 (Current Mission)

REQUIREMENT: Standard design barracks facilities for an Advanced Individual Trainee (AIT) Complex. Primary facilities for this phase will house 600 soldiers and include 2 standard AIT barracks/company operations facilities, and a general purpose storage facility. Project includes special foundations, information systems, fire protection and alarm systems, Intrusion Detection System (IDS) installation, and Energy Monitoring Control Systems (EMCS) connection. Supporting facilities include site development, utilities and connections, lighting, paving, parking, walks, curbs and gutters, storm drainage, information systems, landscaping and signage, recreational areas for basketball and volleyball, and site improvements. Heating and air conditioning will be provided by self contained system. Project will comply with anti-terrorism and force protection requirements per Unified Facilities Criteria. This is phase 2 of a 4 phase AIT Barracks Complex.

CURRENT SITUATION: Ft. Eustis currently uses 26,260 SM of Transient Unaccompanied Personnel Housing (UPH) AIT space in eight buildings built in 1953, 1956 and 1958;
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR FORCE</td>
<td>(computer generated)</td>
</tr>
</tbody>
</table>

<table>
<thead>
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<th>2. DATE</th>
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<table>
<thead>
<tr>
<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIRGINIA</td>
<td>AIT BARRACKS COMPLEX, PHASE 2</td>
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</table>

<table>
<thead>
<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>27576</td>
<td>721-313</td>
<td>WACC120007</td>
<td>50,000</td>
</tr>
</tbody>
</table>

and 4,097 SM of Dining Facility space in five buildings built in 1958, 1967 and 2002 to support AIT students. Two of the barracks and four of the dining facilities have substandard Installation status report (ISR) condition codes. Due to the extremely high volume of soldiers in training, wear and tear on existing barracks is significant and accelerates facility degradation. Overuse has consistently led to significant failures of the plumbing, heating and air conditioning systems as well as significant rodent control issues. These issues result in increased illness and have previously resulted in declined health, increases in absences from training, training recycles and inactive student rates. This project will provide barracks that comply with Army Standards for initial entry training and AIT barracks and implement Department of the Army policies for separate and secure gender-integrated training facilities.

**IMPACT IF NOT PROVIDED:** Soldiers will continue to be housed in substandard facilities, resulting in impaired quality of life, increased potential for illness, lower morale and reduced retention rates.

**ADDITIONAL:** An economic analysis has been performed. It indicates new construction as the most feasible solution. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802(c), and other applicable laws and Executive Orders. Base Civil Engineer: Mr. Mark Sciacchitano (757) 878 - 2642  (AIT Barracks Complex, Phase 2 17,280 SM = 186,000 SF; General Purpose Storage Facility 186 SM = 2,002 SF)

**JOINT USE CERTIFICATION:** This facility is programmed for joint use with the US Army; however, it is fully funded by the Air Force.
1. COMPONENT  
AIR FORCE  

2. DATE  
FY 2012 MILITARY CONSTRUCTION PROJECT DATA  
(computer generated)  

3. INSTALLATION AND LOCATION  
JB LANGLEY-EUSTIS, FORT EUSTIS, VIRGINIA  

4. PROJECT TITLE  
AIT BARRACKS COMPLEX, PHASE 2  

5. PROGRAM ELEMENT  
27576  

6. CATEGORY CODE  
721-313  

7. PROJECT NUMBER  
WAC120007  

8. PROJECT COST ($000)  
50,000  

12. SUPPLEMENTAL DATA:  

a. Estimated Design Data:  

   (1) Status:  
   (a) Date Design Started  
   (b) Parametric Cost Estimates used to develop costs  
   * (c) Percent Complete as of 01 JAN 2011  
   * (d) Date 35% Designed  
   (e) Date Design Complete  
   (f) Energy Study/Life-Cycle analysis was/will be performed  

   17-MAY-10  
   YES  
   15%  
   16-MAR-11  
   15-SEP-11  
   YES  

   (2) Basis:  
   (a) Standard or Definitive Design -  
   (b) Where Design Was Most Recently Used -  

   YES  
   Ft Eustis  

   (3) Total Cost (c) = (a) + (b) or (d) + (e):  
   (a) Production of Plans and Specifications  
   (b) All Other Design Costs  
   (c) Total  
   (d) Contract  
   (e) In-house  

   ($000)  
   100  
   900  
   1,000  
   900  
   100  

   (4) Construction Contract Award  
   12 FEB  

   (5) Construction Start  
   12 MAR  

   (6) Construction Completion  
   13 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:  

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCUREMENT APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
<td>COMMUNICATIONS EQUIPMENT</td>
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1. COMPONENT: AIR FORCE

2. DATE: 1/5/2011

3. INSTALLATION AND LOCATION:
FAIRCHILD AIR FORCE BASE
WASHINGTON

4. COMMAND:
AIR MOBILITY COMMAND

5. AREA CONST:
COST INDEX: 1.05

6. Personnel:

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<tr>
<th></th>
<th>(1) PERMANENT</th>
<th>(2) STUDENTS</th>
<th>(3) SUPPORTED</th>
<th>(4) TOTAL</th>
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<td>AS OF 30 SEP 10</td>
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<td>2,559</td>
<td>567</td>
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<td>END FY 2015</td>
<td>349</td>
<td>2,559</td>
<td>567</td>
<td>42</td>
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</table>

7. INVENTORY DATA ($000):
   a. Total Acreage: 5823
   b. Inventory Total as of: (30 Sep 10) 3,874,001
   c. Authorization Not Yet in Inventory: 43,150
   d. Authorization Requested in this Program: 27,600
   e. Planned in Next Four Years Program: 36,950
   f. Remaining Deficiency: 78,100
   g. Grand Total: 4,059,801

8. PROJECTS REQUESTED IN THIS PROGRAM:
   (FY 2012)

<table>
<thead>
<tr>
<th>CODE</th>
<th>PROJECT TITLE</th>
<th>COST</th>
<th>SCOPE</th>
<th>DESIGN</th>
<th>STATUS</th>
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<tbody>
<tr>
<td>171-627</td>
<td>SERE Force Support Ph 2</td>
<td>3,299</td>
<td>SM</td>
<td>14,000</td>
<td>Design/Build</td>
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<tr>
<td>610-249</td>
<td>Wing Headquarters</td>
<td>2,514</td>
<td>SM</td>
<td>13,600</td>
<td>Design/Build</td>
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<tr>
<td></td>
<td>Total</td>
<td></td>
<td></td>
<td>27,600</td>
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</tr>
</tbody>
</table>

9a. Future Projects: Planned Next Four Years:
   a. Airfield Communications Facility 3,500
   b. Base Operations Facility 8,600
   c. PMEL Facility 4,850
   d. CE, Contracting, MSG Complex, Phase 1 20,000
   Total 36,950

9b. Real Property Maintenance Backlog This Installation: ($M) 90.0

10. Mission or Major Functions:
   An air refueling wing with four KC-135 squadrons; a UH-1 squadron; a WA ANG KC-135 squadron; home of USAF Survival School.
   a. Air pollution 0
   b. Water Pollution 0
   c. Occupational Safety and Health 0
   d. Other Environmental 0

DD Form 1390, 24 Jul 00

Air Conditioning: 100 Tons


REQUIREMENT: To provide administrative, testing and training space for the 22d Training Squadron's (22 TRS) training and support functions at the USAF's SERE School. The 22 TRS provides formal SERE training for the USAF and select Department of Defense air crews and high risk of capture personnel. This project is needed to provide adequate working conditions and consolidate SERE Command and Control (C2) functions into one facility within the new training campus. The current facilities are located a half-mile away from main campus training areas. The new facility combines all command training and support functions currently located in three separate buildings into one centralized facility on main campus. This will greatly improve C2 capabilities, increase efficiency and reduce coordination time.

CURRENT SITUATION: The current facilities were built in 1952 for purposes other than their current use which limits the ability to accommodate individual work space requirements and requires separation of related work areas. This results in poor quality of life and working conditions. It also hinders the coordination process between functions, decreases productivity, delays implementation of mission
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA</th>
<th>2. DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR FORCE</td>
<td>(computer generated)</td>
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</tr>
<tr>
<td>3. INSTALLATION AND LOCATION</td>
<td>FAIRCHILD AIR FORCE BASE, WASHINGTON</td>
<td>4. PROJECT TITLE</td>
</tr>
<tr>
<td>85976</td>
<td>171-627</td>
<td>SERE FORCE SUPPORT, PHASE 2</td>
</tr>
<tr>
<td>6. CATEGORY CODE</td>
<td>14,000</td>
<td>8. PROJECT COST ($000)</td>
</tr>
</tbody>
</table>

essential requirements and reduces the effectiveness of training provided. The age and condition of these facilities render renovation or modification inappropriate. Bldg 1342 is a converted dormitory which requires constant maintenance and repair, is not energy efficient, does not meet antiterrorism/force protection standards and has insufficient electrical capabilities. Electrical system is at capacity which does not allow any addition of air conditioning and minimal support of communication equipment needed to run an office, and is non-compliant for electrical codes. Bldg 1342 does not have fire alarm system resulting in multiple fire safety deficiencies that are a result of deteriorating fire walls and holes in the ceiling/wall. Command areas are geographically separated from each other which make coordination on all levels difficult and time consuming.

**IMPACT IF NOT PROVIDED:** SERE support personnel will continue to work in energy inefficient, degraded, poorly configured facilities without adequate computer power and improper environmental controls. The facility will continue to use scarce maintenance funding and labor ($143K per year, 1000 hrs/yr, and 145 WO/yr). These totals do not include costs to maintain and repair the failing utilities that support these buildings. Facility will continue to be heated by 1950s steam plant that has had numerous line breaks causing facilities to be unheated during our cold winters. This is a QoL issue as well as a safety issue since pipes freeze and break, causing flooding and mold problems in the basement. The age and condition of existing facilities make any renovation and modification uneconomical.

Separated command sections will continue to make coordination between group, squadron, and individual work areas difficult and time consuming. Confusion, delays in work requirements implementation, and general communication breakdowns will continue.

**ADDITIONAL:** Prior project Phase 1, GJKZ920012P1, provides space for the 336th Training Group and 66th Training Squadron. This project meets the criteria/scope specified in the Air Force Handbook 32-1084, "Facility Requirements." A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, upgrade/remodel, new construction and leasing) was done. New construction was found to be the most cost efficient over the life of the project and was the only option that meets operational requirements. An Economic Analysis waiver was completed. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Dean T. Hitchcock, (509) 247-2291. SERE Force Support Complex, Phase 2: 3,299 SM = 35,509 SF.

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

**2. DATE**

**3. INSTALLATION AND LOCATION**
FAIRCHILD AIR FORCE BASE, WASHINGTON

**4. PROJECT TITLE**
SERE FORCE SUPPORT, PHASE 2

**5. PROGRAM ELEMENT**
85976

**6. CATEGORY CODE**
171-627

**7. PROJECT NUMBER**
GJKZ920012P2

**8. PROJECT COST ($000)**
14,000

**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 560

   (4) Construction Contract Award 12 FEB

   (5) Construction Start 12 MAR

   (6) Construction Completion 13 OCT

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

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

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCUREMENT APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMMUNICATIONS</td>
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<td>2013</td>
<td>800</td>
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<tr>
<td>FURNITURE</td>
<td>3400</td>
<td>2013</td>
<td>800</td>
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1. COMPONENT: AIR FORCE  
2. DATE: (computer generated)  

3. INSTALLATION AND LOCATION: FAIRCHILD AIR FORCE BASE, WASHINGTON  
4. PROJECT TITLE: WING HEADQUARTERS  

5. PROGRAM ELEMENT: 41976  
6. CATEGORY CODE: 610-249  
7. PROJECT NUMBER: GJKZ860009  
8. PROJECT COST ($000): 13,600  

9. COST ESTIMATES:

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<th>U/M</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>COST ($000)</th>
<th>COST ($000)</th>
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<td>UTILITIES</td>
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<td>DEMOLITION - VERTICAL</td>
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<td>SUBTOTAL</td>
<td></td>
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<td>11,744</td>
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<td>CONTINGENCY (5.0%)</td>
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<td>13,503</td>
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<td>TOTAL REQUEST (ROUNDED)</td>
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<td></td>
<td>(1,500)</td>
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</tbody>
</table>

10. Description of Proposed Construction: Reinforced concrete foundation, steel framing, insulated masonry shell and metal roof facility. Includes all associated utilities, site work, paving, landscaping and all other necessary work. Demolish one building (3,546 SM). Complies with DoD minimum anti-terrorism/force protection measures per Unified Facilities Criteria.

Air Conditioning: 65 Tons


PROJECT: Wing Headquarters (Current Mission).

REQUIREMENT: Adequate facilities are needed for the associated 92d Air Refueling Wing (ARW) and 141st ARW command and control functions. This project will construct a command and control center to house the active duty 92d ARW and Air National Guard 141st ARW commanders, wing staffs (Public Affairs, and Protocol), and Judge Advocate General.

CURRENT SITUATION: The existing associated wing headquarters, Bldg 2285, is a 1943 wood-frame structure which is not economically feasible to restore (required repairs exceed 70% of replacement cost). An analysis of the facility identified life safety, fire, force protection, electrical, mechanical, energy, and ADA code deficiencies so extensive that replacement of the facility is the only viable option. The facility does not have a fire suppression system and has limited fire detection/alarm resulting in a fire safety deficiencies. It also fails to meet the minimum force protection standards as directed in UFC 4–010–01. As a Critical, Primary Gathering Facility, it fails all Antiterrorism Standards for providing standoff, preventing collapse, minimizing flying debris, effective building layout, limiting airborne contamination, and providing mass notification. The electrical panels are undersized for the required loads. As electrical equipment was developed over the years, the panels and feeders quickly became overloaded.
Temperature control for most areas is provided by portable air conditioners and electric heaters. In addition, the facility lacks an elevator for handicapped access to the second floor, restrooms that accommodate wheelchairs, and areas of refuge to allow a safe haven for wheelchair bound persons awaiting rescue.

**IMPACT IF NOT PROVIDED:** Scarce facility maintenance funds (143 work orders, 1,471 hrs at a cost of $645K annually) will continue to be spent on an outdated facility that was not designed for the current functions. The inability to replace this structure will severely limit the ability of the installation to meet wing missions, and provide personal comfort to the command and legal staffs. Utility costs will continue to increase from $60K per year and the facility will continue to be non-compliant with DoD energy mandates.

**ADDITIONAL:** This project meets the criteria scope specified in AFH 32-1084, "Facility Requirements". As a Critical, Primary Gathering Facility, the new structure requires measures to stop a vehicle at the 25 meter setback. Passive Force Protection Measures are also required to block direct driving access coming from the main gate to the facility. An economic analysis has been prepared comparing alternatives of Status Quo, Renovation, and New Construction. Based on the net present values and benefits of the respective alternatives, New Construction was found to be the most cost-effective over the life of the project. Sustainable principles will be integrated into design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive orders. Base Civil Engineer: Dean T. Hitchcock, Lt Col, Comm: 509-247-2291. (Wing Headquarters: 2,514 SM = 27,051 SF)

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

2. DATE
FY 2012 MILITARY CONSTRUCTION PROJECT DATA
(computer generated)

3. INSTALLATION AND LOCATION
FAIRCHILD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE
WING HEADQUARTERS

5. PROGRAM ELEMENT
41976

6. CATEGORY CODE
610-249

7. PROJECT NUMBER
GJKZ860009

8. PROJECT COST ($000)
13,600

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 544
   (4) Construction Contract Award 12 FEB
   (5) Construction Start 12 MAR
   (6) Construction Completion 13 OCT
   (7) Energy Study/Life-Cycle analysis was/will be performed YES

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

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCUREMENT APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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<tr>
<td>FURNITURE</td>
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<td>750</td>
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<tr>
<td>COMMUNICATIONS</td>
<td>3400</td>
<td>2013</td>
<td>750</td>
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</table>
1. COMPONENT

AIR FORCE

2. DATE

3. INSTALLATION AND LOCATION

RAMSTEIN AIR BASE
GERMANY

4. COMMAND:

UNITED STATES AIR FORCES IN EUROPE

5. AREA CONST

1.1

6. Personnel

<table>
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<th>Strength</th>
<th>PERMANENT</th>
<th>STUDENTS</th>
<th>SUPPORTED</th>
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<td>AS OF 30 SEP 10</td>
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<td>5,674</td>
<td>2,624</td>
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<td>END FY 2015</td>
<td>1,193</td>
<td>5,337</td>
<td>2,605</td>
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7. INVENTORY DATA ($000)

a. Total Acreage: 5,061
b. Inventory Total as of: (30 Sep 10) 8,394,658
c. Authorization Not Yet in Inventory: 203,509
d. Authorization Requested in this Program: 34,697
e. Planned in Next Four Years Program: 100,500
f. Remaining Deficiency: 770,400
g. Grand Total: 9,503,764

8. PROJECTS REQUESTED IN THIS PROGRAM:

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST $,000</th>
<th>DESIGN</th>
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<td>721-312</td>
<td>Dormitory (192 RM)</td>
<td>192 RM</td>
<td>34,697</td>
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<td>Total</td>
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<td></td>
<td>9a. Future Projects: Typical Planned Next Four Years:</td>
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<tr>
<td></td>
<td>141-753</td>
<td>37 AS Squadron Ops/AMU</td>
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<td>14,400</td>
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<td>721-312</td>
<td>Dormitory 192 RM</td>
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<td></td>
<td>721-312</td>
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<tr>
<td></td>
<td>831-165</td>
<td>Airfield Ponding Drainage System</td>
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<tr>
<td></td>
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<td>Total</td>
<td>100,500</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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

10. Mission or Major Functions: Home of the 86th Airlift Wing, Headquarters US Air Forces in Europe, 3rd AF, 17th AF, as well as the NATO Headquarters Air North. Ramstein AB is the central airlift hub for strategic and tactical airlift within the European theater. The wing’s mission is the operation and maintenance of airlift assets composed of C-130s for tactical airlift, a C-40, C-20s & C-21s for DV airlift throughout Europe, Africa, and the Middle East.

11. Outstanding pollution and Safety (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
2. DATE
AIR FORCE
FY 2012 MILITARY CONSTRUCTION PROJECT DATA
(Military generated)

3. INSTALLATION AND LOCATION
RAMSTEIN AIR BASE, GERMANY

4. PROJECT TITLE
DORMITORY (192 RM)

5. PROGRAM ELEMENT
27576

6. CATEGORY CODE
721-312 TYFR063017

7. PROJECT NUMBER
8. PROJECT COST ($000)
34,697

9. COST ESTIMATES

<table>
<thead>
<tr>
<th>ITEM</th>
<th>U/M</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>COST ($000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONSTRUCT DORMITORY, 192RM</td>
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<td>25,761</td>
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<tr>
<td>DORMITORY</td>
<td>SM</td>
<td>7,296</td>
<td>2,385</td>
<td>( 17,401 )</td>
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<tr>
<td>PARKING STRUCTURE</td>
<td>SP</td>
<td>360</td>
<td>21,803</td>
<td>( 7,849 )</td>
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<tr>
<td>SDD &amp; EPACT05</td>
<td>LS</td>
<td></td>
<td></td>
<td>( 511 )</td>
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<tr>
<td>SUPPORTING FACILITIES</td>
<td></td>
<td></td>
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<td>5,291</td>
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<tr>
<td>UTILITIES &amp; STORMWATER DRAINAGE</td>
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<td>( 910 )</td>
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<td>WALKWAYS &amp; PAVEMENTS</td>
<td>LS</td>
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<td>( 391 )</td>
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<td>SITE DEVELOPMENT &amp; IMPROVEMENTS</td>
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<td>ELEVATORS</td>
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<td>EXTERIOR COMMUNICATION SUPPORT</td>
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<td>( 220 )</td>
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<td>ENVIRONMENTAL SUPPORT</td>
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<td>( 35 )</td>
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<td>PASSIVE FORCE PROTECTION MEASURES</td>
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<td>( 400 )</td>
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<tr>
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<td>SM</td>
<td>500</td>
<td>3,324</td>
<td>( 1,662 )</td>
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<tr>
<td>DEMOLITION OF BUILDING 2413</td>
<td>SM</td>
<td>7,451</td>
<td>159</td>
<td>( 1,185 )</td>
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</table>

SUBTOTAL 31,052
CONTINGENCY (5.0%) 1,553
TOTAL CONTRACT COST 32,604
SUPERVISION, INSPECTION AND OVERHEAD (6.5%) 2,119
TOTAL REQUEST 34,724
TOTAL REQUEST (ROUNDED) 34,697
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) (1,602.0)

10. Description of Proposed Construction: Multi-story structure with reinforced concrete foundations and floor slabs, masonry walls, fire suppression and sloped roof systems. Construction will be in accordance with the current Air Force Enlisted Dormitory Design Guide and consist of four-bedroom modules. Scope includes upgrade of the electrical substation, and all other utilities, elevators, laundries, storage and lounge areas, as well as a parking structure with site development and landscaping. The work also includes the relocation of the Host Nation Kantine being displaced by the construction, demolition of one existing building, all other necessary support, and will be in compliance with current US Air Force and German regulations. This project will comply with DoD antiterrorism/force protection requirements per the Unified Facilities Criteria.

Air Conditioning: 0 Tons Grade Mix: E1-E4 192


PROJECT: Dormitory 192 RM (Current Mission).

REQUIREMENT: A major Air Force objective provides unaccompanied enlisted personnel with housing conducive to their 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 jobs these people must perform. The retention of these highly trained airmen is essential to our readiness posture and continuing world-wide presence. As Ramstein AB is an overseas location with a sensitive mission, the dormitory must...
be constructed to deter terrorist activity and protect occupants from terrorist attack. This project is in accordance with the 2008 Air Force Dormitory Master Plan (AFDMP), which analyzed dormitories plus campus infrastructure, and rated building #2413 at Ramstein AB as inadequate "Tier 1" dorm. This dormitory will be demolished as a part of this project, after completion of the new structure.

CURRENT SITUATION: Existing Building 2413 (Tier 1 Dorm, 2008 AFDMP) is unable to be renovated to meet USAF dormitory design guide or to comply with AT/FP standards (renovation cost is 82% of replacement cost and would not satisfy AT/FP requirements). The base has insufficient on-base housing to adequately accommodate unaccompanied enlisted personnel in close proximity to their work center. The existing dormitories are scattered throughout the Kaiserslautern Military Community (KMC) area, and most are configured to the former 2 + 2 standard. This situation has created numerous unacceptable problems and hardships for unaccompanied enlisted personnel. Some airmen have their active duty workplace at Ramstein AB and their dorm room at Kapaun Annex, requiring them to commute back and forth.

IMPACT IF NOT PROVIDED: Adequate living quarters which provide a level of privacy required for today's airmen will not be available, resulting in degradation of morale, productivity, and career satisfaction for unaccompanied enlisted personnel. Therefore a major Air Force objective to provide unaccompanied enlisted personnel with "Dorms-4-Airmen" in accordance with the governing Air Force Enlisted Dormitory Design Guide cannot be satisfied, and the "Tier 1" dorm will continue to exist.

ADDITIONAL: This project is not currently eligible for NATO funding, and we do not anticipate it becoming eligible in the future, since it exceeds NATO Standard Criteria. The project scope of 38 square meters (SM) per person meets the criteria specified in AF-070919-082, Unaccompanied Housing Design Guide, page 18, which states the gross module area for permanent party E1-E6 is 33 SM and is allowed an increase of 5 SM to support host-nation construction and energy specific requirements. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Also a recently completed traffic study for Ramstein AB highly recommends the construction of parking structures in order to meet AT/FP stand-off distance requirements while building on the limited real estate available. All known alternatives were considered during the development of this project. No other option could meet mission requirements. Therefore an economic analysis was not performed. A certificate of exception has been prepared. FY 2009 Unaccompanied Housing RPM Conducted: $6,587K; FY 2010 Unaccompanied Housing RPM Conducted: $4,211K; Future Unaccompanied Housing RPM requirements (estimated): FY11: $6,097K; FY12: $8,872K; FY13: $4,629K; FY14: $6,591K; FY15: $4,230K.


FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .7491

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

2. DATE
FY 2012 MILITARY CONSTRUCTION PROJECT DATA (computer generated)

3. INSTALLATION AND LOCATION
RAMSTEIN AIR BASE, GERMANY

4. PROJECT TITLE
DORMITORY (192 RM)

5. PROGRAM ELEMENT
27576

6. CATEGORY CODE
721-312

7. PROJECT NUMBER
TYFR063017

8. PROJECT COST ($000)
34,697

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
   (a) Date Design Started 30-APR-10
   (b) Parametric Cost Estimates used to develop costs YES
* (c) Percent Complete as of 01 JAN 2011 15%
* (d) Date 35% Designed 16-MAR-11
(e) Date Design Complete 30-SEP-11
(f) Energy Study/Life-Cycle analysis was/will be performed YES

(2) Basis:
   (a) Standard or Definitive Design - YES
   (b) Where Design Was Most Recently Used - Kapaun Annex

(3) Total Cost $(c) = (a) + (b) or (d) + (e):
   (a) Production of Plans and Specifications 2,100
   (b) All Other Design Costs 1,050
   (c) Total 3,150
   (d) Contract 2,678
   (e) In-house 472

(4) Construction Contract Award 12 MAR

(5) Construction Start 12 APR

(6) Construction Completion 14 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:

<table>
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<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCUREMENT APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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<td>KITCHENETTE EQUIPMENT</td>
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<td>FURNISHINGS</td>
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<td>1. COMPONENT</td>
<td>FY 2012 MILITARY CONSTRUCTION PROGRAM</td>
<td>2. DATE</td>
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<td>--------------</td>
<td>--------------------------------------</td>
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<tr>
<td>INSTALLATION AND LOCATION</td>
<td>COMMAND:</td>
<td>5. AREA CONST</td>
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<tr>
<td>THULE AIR BASE</td>
<td>AIR FORCE SPACE</td>
<td>COST INDEX</td>
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<tr>
<td>GREENLAND</td>
<td>COMMAND</td>
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<td>6. Personnel</td>
<td>PERMANENT</td>
<td>STUDENTS</td>
<td>SUPPORTED</td>
</tr>
<tr>
<td>Strength</td>
<td>OFF</td>
<td>ENL</td>
<td>CIV</td>
</tr>
<tr>
<td>AS OF 30 SEP 10</td>
<td>25</td>
<td>111</td>
<td>2</td>
</tr>
<tr>
<td>END FY 2015</td>
<td>24</td>
<td>110</td>
<td>2</td>
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<tr>
<td>7. INVENTORY DATA ($000)</td>
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<tr>
<td>Total Acreage:</td>
<td>234,022</td>
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<td>Authorization Not Yet in Inventory:</td>
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<tr>
<td>Authorization Requested in this Program:</td>
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<td></td>
<td></td>
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<tr>
<td>Planned in Next Four Years Program:</td>
<td>20,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remaining Deficiency:</td>
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<td>Grand Total:</td>
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<td></td>
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<td>8. PROJECTS REQUESTED IN THIS PROGRAM:</td>
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<td>(FY 2012)</td>
<td></td>
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<tr>
<td>CATEGORY</td>
<td>CODE</td>
<td>PROJECT TITLE</td>
<td>SCOPE</td>
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<tr>
<td></td>
<td>721-312</td>
<td>Dormitory (72 RM)</td>
<td>72 RM</td>
</tr>
<tr>
<td>Total</td>
<td>28,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9a. Future Projects: Typical Planned Next Four Years:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>721-312</td>
<td>Dormitory (48 RM)</td>
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<tr>
<td>Total</td>
<td>20,000</td>
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<td></td>
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<tr>
<td>9b. Real Property Maintenance Backlog This Installation ($M)</td>
<td></td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>10. Mission or Major Functions: The base hosts a Space Warning Squadron that is designed to detect and track Intercontinental Ballistic Missiles (ICBMs) launched against North America; hosts a Space Operations Squadron—part of the global satellite control network; operates a 10,000 foot runway supporting 2,600 U.S. and international flights per year; and is home to the northernmost deep water port in the world.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Outstanding pollution and Safety (OSHA) Deficiencies:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>a. Air pollution</td>
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<td>0</td>
<td></td>
</tr>
<tr>
<td>b. Water Pollution</td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>c. Occupational Safety and Health</td>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>d. Other Environmental</td>
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<td>0</td>
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<td>DD Form 1390, 24 Jul 00</td>
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</table>
1. COMPONENT: AIR FORCE
2. DATE: FY 2012 MILITARY CONSTRUCTION PROJECT DATA
3. INSTALLATION AND LOCATION: THULE AIR BASE, GREENLAND
4. PROJECT TITLE: DORMITORY (72 PN)

<table>
<thead>
<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
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<tbody>
<tr>
<td>31476</td>
<td>721-312</td>
<td>WWCX103033</td>
<td>28,000</td>
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9. COST ESTIMATES

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<th>QUANTITY</th>
<th>UNIT</th>
<th>COST</th>
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<td>1,159</td>
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<td>(400)</td>
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<td>4,866</td>
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<td>LS</td>
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<td>(2,000)</td>
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<tr>
<td>SITE IMPROVEMENTS</td>
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<td>(1,900)</td>
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<td>COMMUNICATIONS</td>
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<td>(714)</td>
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<tr>
<td>PAVEMENTS</td>
<td></td>
<td></td>
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<td>(252)</td>
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<tr>
<td>SUBTOTAL</td>
<td></td>
<td></td>
<td></td>
<td>24,223</td>
</tr>
<tr>
<td>CONTINGENCY (5.0%)</td>
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<td></td>
<td></td>
<td>1,121</td>
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<td>TOTAL CONTRACT COST</td>
<td></td>
<td></td>
<td></td>
<td>25,434</td>
</tr>
</tbody>
</table>

| SUPervision, inspection and overhead (6.5%) | 969       |
| DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL) | 969       |
| TOTAL REQUEST             | 28,056    |
| TOTAL REQUEST (ROUNDED)   | 28,000    |
| EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) | (654)     |

10. Description of Proposed Construction: Construct a 3-story, 72 room dormitory with arctic foundation, steel frame, insulated panel exterior and pitched metal roof. Includes site improvements, utilities, and communications. Interior will consist of 72 rooms with interior corridor access to AFCEE Thule Dorm prototype configured modules supporting a grade mix of 32 E-4 (over 3 years) to E-6 (IAW Unit "D" Plan) plus 32 E-7 to E-9 / O-1 to O-3 (IAW Unit "B" Plan) plus 8 O-4 to O-10 (IAW Unit "A" Plan). This project will comply with DoD antiterrorism/force protection requirements per Unified Facilities Criteria.

11. Requirement: 798 PN Adequate: 143 PN Substandard: 757 PN

PROJECT: Construct Dormitory (72 PN). (Current Mission) REQUIREMENT: A major Air Force objective is to provide unaccompanied personnel with housing conducive to their proper rest, relaxation, and personal well-being. To achieve this goal, properly designed and furnished quarters providing some degree of individual privacy are essential at this remote arctic location. This project is in accordance with Air Staff guidance for quality of life improvement and meets the Air Force Unaccompanied Housing Design Guide criteria.

CURRENT SITUATION: As verified by the 2008 Air Force Dormitory Master Plan, the base has insufficient facilities to adequately accommodate unaccompanied personnel assigned to Thule AB, Greenland. The existing dormitories are classified as being "Tier 1" facilities, which should be replaced. Thule is a remote site located in an extreme arctic environment. Existing 58-year-old facilities provide deplorable living conditions and continue to degrade in the harsh arctic weather. All base personnel are required to reside in dormitories. This dorm project is critical as it will allow for movement of personnel from substandard living conditions to acceptable living conditions.

IMPACT IF NOT PROVIDED: Adequate living quarters, which provide a level of privacy...
will not be available resulting in degradation of morale, productivity, and career satisfaction for unaccompanied personnel executing critical Air Force satellite control and Ballistic Missile Early Warning System (BMEWS) missions. This important quality of life issue is directly related to the AF priority to care for our Airmen. Continued status quo condition may also negatively impact AF retention.

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, revitalization, renovation, upgrade/removal, new construction) was done. Based on the present value and benefits of the respective alternatives, new construction was found to be the most cost effective over the life of the project. It indicates there is only one option that will meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception was prepared. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive laws and orders. Unaccompanied Housing RPM Conducted: FY09, $1,100K; FY10, $1,663K; FY11, $2,300K; FY12, $2,500K; FY13, $2,500K. 21 SW Base Civil Engineer: Lt Col Arno J. Bischoff, Commercial (719) 556-7631. Dormitory (72 Rm): 4,558 SM = 49,044 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: DANISH KRONER 5.5819

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.
## FY 2012 Military Construction Project Data

### 1. Component
AIR FORCE

### 2. Date

### 3. Installation and Location
THULE AIR BASE, GREENLAND

### 4. Project Title
DORMITORY (72 PN)

### 5. Program Element
31476

### 6. Category Code
721-312

### 7. Project Number
WWCX103033

### 8. Project Cost ($000)
28,000

### 12. Supplemental Data:

**a. Estimated Design Data:**

1. Project to be accomplished by design-build procedures
2. Basis:
   - (a) Standard or Definitive Design - NO
   - (b) Where Design Was Most Recently Used -
3. All Other Design Costs 1,120
4. Construction Contract Award 12 FEB
5. Construction Start 12 MAR
6. Construction Completion 14 MAR
7. Energy Study/Life-Cycle analysis was/will be performed YES

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

<table>
<thead>
<tr>
<th>Equipment Nomenclature</th>
<th>Procuring Appropriation</th>
<th>Fiscal Year Appropriated or Requested</th>
<th>Cost ($000)</th>
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</thead>
<tbody>
<tr>
<td>Communications Equipment</td>
<td>3400</td>
<td>2013</td>
<td>150</td>
</tr>
<tr>
<td>Furnishings</td>
<td>3400</td>
<td>2013</td>
<td>504</td>
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1. COMPONENT

FY 2012 MILITARY CONSTRUCTION PROGRAM

<table>
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<tr>
<th>INSTALLATION AND LOCATION</th>
<th>COMMAND:</th>
<th>AREA COST INDEX</th>
</tr>
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<tbody>
<tr>
<td>JRM - ANDERSEN AIR FORCE BASE</td>
<td>PACIFIC AIR FORCES</td>
<td>COUNTRY BASED</td>
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<tr>
<td>GUAM</td>
<td></td>
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</table>

2. DATE

<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROGRAM</th>
<th>2. DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6. Personnel

<table>
<thead>
<tr>
<th>Strength</th>
<th>PERMANENT</th>
<th>STUDENTS</th>
<th>SUPPORTED</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>OFF</td>
<td>ENL</td>
<td>CIV</td>
</tr>
<tr>
<td>AS OF 30 SEP 10</td>
<td>158</td>
<td>1,595</td>
<td>376</td>
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<tr>
<td>END FY 2015</td>
<td>158</td>
<td>1,643</td>
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7. INVENTORY DATA ($000)

- Total Acreage: 20,270
- Inventory Total as of (30 Sep 10): 6,145,097
- Authorization Not Yet in Inventory: 121,877
- Authorization Requested in this Program: 211,600
- Planned in Next Four Years Program: 591,900
- Remaining Deficiency: 775,459
- Grand Total: 7,845,933

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2012)

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST $,000</th>
<th>START</th>
<th>CMPL</th>
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<tr>
<td></td>
<td>141-782</td>
<td>Air Freight Terminal Complex</td>
<td>3,916 SM</td>
<td>$35,000</td>
<td>May-10</td>
<td>Sep-11</td>
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<tr>
<td></td>
<td>116-672</td>
<td>Guam Strike - Clear Water Rinse Facility</td>
<td>3,355 SM</td>
<td>$7,500</td>
<td>Design-Build</td>
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<tr>
<td></td>
<td>217-742</td>
<td>PRTC - Combat Communications Transmiss</td>
<td>958 SM</td>
<td>$5,600</td>
<td>Design-Build</td>
<td></td>
</tr>
<tr>
<td></td>
<td>217-742</td>
<td>PRTC - Combat Communications Combat S</td>
<td>1,732 SM</td>
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<td></td>
<td>219-944</td>
<td>PRTC - RED HORSE Cantonment Operatio</td>
<td>1,647 SM</td>
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<td>Design-Build</td>
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<td></td>
<td>216-642</td>
<td>Guam Strike - Convention Munition Mainten</td>
<td>710 SM</td>
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<td></td>
<td>211-179</td>
<td>Guam Strike - Fuel Systems Maintenance H</td>
<td>5,310 SM</td>
<td>$128,000</td>
<td>Jun-10</td>
<td>Sep-11</td>
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<td>Total</td>
<td>$211,600</td>
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9a. FUTURE PROJECTS: Typical Planned Next Four Years:

- Guam Resiliency, Ph 2: $30,000
- Guam Strike - Facilities: $151,000
- Guam Strike - Facilities: $117,600
- Guam Resiliency, Ph 3: $50,500
- Guam Resiliency, Ph 4: $80,000
- Guam Resiliency, Ph 5: $85,000
- PRTC Combat Communications Infrastructure Facility: $5,200
- PRTC RED HORSE Airfield Operations Facility: $10,000
- PRTC RED HORSE Bulk Materials Storage Facility: $3,900
- Munitions Storage Igloos: $5,000
- Munitions Storage Igloos, phase 3: $30,000
- PRTC - RED HORSE Logistics Facility: $8,700
- Construct Base Library: $7,600
- Consolidated Youth Program: $7,400

9b. Real Property Maintenance Backlog This Installation ($M) 129

10. Mission or Major Functions: Andersen AFB is home to the 36th Wing (36 WG) with the primary mission to employ, deploy, integrate, and enable air and space forces from the most forward US sovereign air force base in the Pacific. Provides continuous bomber presence 365 days per year to support US Pacific Command. Provides a Contingency Response Group with a "911 force" capability to quickly deploy to any hot spot in the region to quickly open and operate an air base for both combat and humanitarian assistance missions. Hosts AMC air mobility squadron and Navy helicopter sea combat squadron.

11. Outstanding pollution and Safety (OSHA Deficiencies):

- Air pollution: 0
- Water Pollution: 0
- Occupational Safety and Health: 0
- Other Environmental: 0

DD Form 1390, 24 Jul 00
AIR FORCE

AIR FREIGHT TERMINAL COMPLEX

1. COMPONENT

JRM - ANDERSEN AIR FORCE BASE, GUAM

3. INSTALLATION AND LOCATION

4. PROJECT TITLE

FY 2012 MILITARY CONSTRUCTION PROJECT DATA

5. PROGRAM ELEMENT

6. CATEGORY CODE

7. PROJECT NUMBER

8. PROJECT COST ($000)

9. COST ESTIMATES

ITEM | U/M | QUANTITY | UNIT | COST ($000)
--- | --- | --- | --- | ---
PRIMARY FACILITIES | | | | |
CONSTRUCT AIR FREIGHT TERMINAL | SM | 3,056 | 5,670 | (17,328)
ADD BLDG 19020 | SM | 1,300 | 3,324 | (4,321)
ALTER BLDG 19020 | SM | 781 | 1,000 | (781)
SDD & EPACT 05 | LS | | | (449)
SUPPORTING FACILITIES | | | | |
UTILITIES | LS | | | (1,788)
SITE IMPROVEMENTS | LS | | | (2,308)
SIDEWALKS | LS | | | (885)
PAVEMENTS | LS | | | (2,286)
COMMUNICATIONS | LS | | | (720)
DEMOLITION - VERTICAL | SM | 1,769 | 379 | (670)
DEMOLITION - HORIZONTAL | LS | | | (144)

SUBTOTAL | | | | 31,679
CONTINGENCY | (5.0%) | | | 1,584
TOTAL CONTRACT COST | | | | 33,263
SUPERVISION, INSPECTION AND OVERHEAD | (6.2%) | | | 2,062
TOTAL REQUEST | | | | 35,325
TOTAL REQUEST (ROUNDED) | | | | 35,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD) | | | | (7,300.0)

10. Description of Proposed Construction: New Air Freight Terminal Complex will include space for storage, packing and crating of shipments, docks, ramps, handling equipment, maintenance, and office and administration. Supporting facilities include site improvements, utility connections, parking and fencing, force protection, fire protection system, addition and alteration of Building 19020 to accommodate displaced HQ and AMU functions, and all other necessary work. The new facility will be located adjacent to the primary cargo parking area. Project incorporates typhoon resistant (up to 180 knot wind) and Seismic Area 4 construction criteria and road relocation. Demolishes 1,769 SM of facilities. This project will comply with DoD antiterrorism/force protection requirements per the Unified Facilities Criteria.

Air Conditioning: 50 Tons


PROJECT: Air Freight Terminal Complex (Current Mission).

REQUIREMENT: An adequately sized and properly configured freight/fleet terminal is required to process, store and protect valuable DoD cargo, and accommodate a mechanized material handling system (MMHS). Functional spaces include (but not limited to) administrative offices, warehouse, supply, hazardous, sensitive, and Material Handling Equipment (MHE) storage. Provide adequate indoor cargo processing area and surge capabilities for contingencies and exercises. The capability for an Electronic Transfer Vehicle (ETV) is required for indoor pallet storage. This capability will maximize cargo storage and protect all
CURRENT SITUATION: The current air freight terminal, comprised of two facilities, is located nearly one-half mile travel distance from the primary cargo aircraft parking areas and requires the limited MHE to make numerous trips to the terminal. This puts an unnecessary strain on these high-cost MHE resources as they make round-trips to support cargo aircraft. Current MHE includes: four 40Ks, five 25Ks, seven 10Ks, five 4Ks, and four Tugs. Squadron command and control and storage are currently spread over three separate buildings, which prevent effective operations. The new terminal will house all of these functions in the same administration area. Warehouse spaces generally limit cargo handling to one operation at a time. Currently our average monthly tonnage is 1,000 short tons or 3,385 pieces of cargo.

The current facility design provides space for only 50% of daily workload to be stored indoors. Lack of adequate storage space forces high value DoD cargo to be routinely stored outdoors, exposing it to torrential rainstorms, high heat, and extreme humidity in this tropical environment. During typhoons, which routinely occur, only 20 pallets of cargo can be stored inside due to space limitations. The rest must remain outside, and although covered to AMC standards, it is very susceptible to wind and water damage. The floor space of the current terminal would equal only the refrigerated holding areas at some AMC CONUS aerial ports with similar storage demands. With limited warehouse floor area, hazardous materials and general inbound/outbound cargo shipments are collocated in the same area and required hazardous cargo standoff distances cannot be maintained, requiring multiple handlings of cargo and bottlenecks in processing the shipments for air or surface. This also increases the chances of a HAZMAT incident. The existing design creates numerous safety concerns. Concrete structural support beams create serious vehicle mishap/pinning hazards.

IMPACT IF NOT PROVIDED: Mission capabilities will continue to be extremely limited, with no surge capabilities for exercises, emergencies or contingencies. The current storage, spread over two buildings, will continue to hamper effective operations. Personnel will have to continue to work in the sun, heat, and humidity while outside, and be exposed to exhaust fumes and potentially hazardous conditions while inside. These conditions not only affect the capabilities of the facilities but also have a serious negative impact on morale.

ADDITIONAL: This project meets the criteria/scope in Air Force Handbook 32-1084, "Facility Requirements." All known alternative options were considered during the development of this project. No other option could meet the mission requirement; no economic analysis was needed or performed. A certificate of exception has been prepared. Existing substandard facilities will be retained for other base functions. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive orders. BASE CIVIL ENGINEER: Lt Col Richard S. Mathews, (671) 366-7101. Construct Air Freight Terminal Complex: 3,056 SM = 32,870 SF; Add Building 19020: 1300 SM = 13,988 SF; Alter Building 19020: 781 SM = 8.404 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
AIR FORCE

2. DATE
FY 2012 MILITARY CONSTRUCTION PROJECT DATA
(computer generated)

3. INSTALLATION AND LOCATION
JRM - ANDERSEN AIR FORCE BASE, GUAM

4. PROJECT TITLE
AIR FREIGHT TERMINAL COMPLEX

5. PROGRAM ELEMENT
41976

6. CATEGORY CODE
141-782

7. PROJECT NUMBER
AJJY983202

8. PROJECT COST ($000)
35,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:
(1) Status:
(a) Date Design Started 10-MAY-10
(b) Parametric Cost Estimates used to develop costs YES
* (c) Percent Complete as of 01 JAN 2011 15%
* (d) Date 35% Designed 16-MAR-11
(e) Date Design Complete 30-SEP-11
(f) Energy Study/Life-Cycle analysis was/will be performed YES

(2) Basis:
(a) Standard or Definitive Design - YES
(b) Where Design Was Most Recently Used -

(3) Total Cost (c) = (a) + (b) or (d) + (e):
(a) Production of Plans and Specifications 2,100
(b) All Other Design Costs 1,050
(c) Total 3,150
(d) Contract 2,625
(e) In-house 525

(4) Construction Contract Award 12 FEB

(5) Construction Start 12 MAR

(6) Construction Completion 14 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:

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<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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1. COMPONENT    FY 2012 MILITARY CONSTRUCTION PROJECT DATA
AIR FORCE
  (computer generated)

2. DATE

3. INSTALLATION AND LOCATION
JRM - ANDERSEN AIR FORCE BASE, GUAM

4. PROJECT TITLE
GUAM STRIKE-CLEAR WATER RINSE FACILITY

5. PROGRAM ELEMENT
27576

6. CATEGORY CODE
116-672

7. PROJECT NUMBER
AJJY123009

8. PROJECT COST ($000)
7,500

9. COST ESTIMATES

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<td>TOTAL REQUEST (ROUNDED)</td>
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<td>7,500</td>
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10. Description of Proposed Construction: Construct a clear water rinse facility consisting of a reinforced concrete pumphouse, a 14 inch reinforced concrete pad, a below-ground rinse water supply tank, a valve control box, and a waste water sedimentation collection tank. Includes all utilities, site work (including pavements demolition), a pump house ventilation system, communications, and a fire suppression system. This project will comply with DoD antiterrorism force protection requirements per unified facilities criteria.

Air Conditioning: 0 Tons

11. Requirement: 289 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Construct a clear water rinse (CWR) facility. (New Mission)

REQUIREMENT: An adequately sized and configured drive-through facility is required to provide daily rinse capability for all aircraft in support of the Guam Strike mission. The CWR facility is required to support a Continuous Bomber Presence (CBP), Tanker Task Force (TTF), Theater Security Packages (TSP), and the Global Hawk beddown. This facility provides the capability to rinse highly corrosive salt from the skin of aircraft after the last flight of each day in accordance with Corrosion Control Technical Order 1-1-691 Change 2 October 2007, Section 3.2.3. Aircraft exposed to a salt water environment require a clear water rinse. Specific rinse requirements are as follows: All aircraft stationed at bases located within 1.25 miles (2 km) of salt water shall be CWR at least once every 15 days unless
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
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<tbody>
<tr>
<td>AIR FORCE</td>
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<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE</th>
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<tbody>
<tr>
<td>JRM - ANDERSEN AIR FORCE BASE, GUAM</td>
<td>GUAM STRIKE-CLEAR WATER RINSE FACILITY</td>
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<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
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<tr>
<td>27576</td>
<td>116-672</td>
<td>AJJY123009</td>
<td>7,500</td>
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</table>

Washed first. Aircraft flown at low level (under 3,000 feet) or making two or more take-offs and/or landings (including touch-and-go landings) over salt water require a CWR after the last flight of the day. All aircraft deployed to a location within 1.25 miles (2 km) of salt water for 10 days or more have the same CWR requirements as if stationed there. The facility requires a wash pad surface of 33,000 Square Feet (SF) and associated pump house, and rinse water contaminate tank and supply water tank.

**CURRENT SITUATION:** Andersen AFB does not possess the facilities necessary to meet the requirement for aircraft clear water rinses. Without a CWR facility, this is accomplished with workarounds, driving an increased workload for crew chiefs, and a requirement to manage the rinse water.

**IMPACT IF NOT PROVIDED:** Without this facility, Andersen AFB will be unable to provide efficient or proper clear water rinse capabilities to support the Guam Strike Program that includes Continuous Bomber Presence (CBP), Tanker Task Force (TTF), Theater Security Packages (TSP), and the Global Hawk beddown. Maintenance crews will have to continue to accomplish clear water rinses manually, consuming significant personnel resources. Readiness will be impaired, and significant degradation of operational capability will continue, while aircraft corrosion accelerates shortening aircraft lifespan and driving additional base and depot level maintenance.

**ADDITIONAL:** This project meets the criteria/scope specified in AFH 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. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Civil Engineer: Major Michael Staples 671-366-7101. Clear Water Rinse Facility Pump House 289 SM = 2688 SF; Clear Water Rinse Concrete Pad 3,066 SM = 33,000 SF.

**JOINT USE CERTIFICATION:** This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
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<th>2. DATE</th>
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<th>3. INSTALLATION AND LOCATION</th>
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<tr>
<td>JRM - ANDERSEN AIR FORCE BASE, GUAM</td>
<td>GUAM STRIKE-CLEAR WATER RINSE FACILITY</td>
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<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
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<td>27576</td>
<td>116-672</td>
<td>AJJY123009</td>
<td>7,500</td>
</tr>
</tbody>
</table>

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 300

(4) Construction Contract Award 12 FEB

(5) Construction Start 12 MAR

(6) Construction Completion 13 DEC

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

b. Equipment associated with this project provided from other appropriations: N/A
10. Description of Proposed Construction: Construct facility consisting of reinforced concrete footings, foundations, floor slabs, and walls and roof decking with membrane covering. Roof decking will be supported with pre-stressed concrete beams. The project will include electrical, mechanical, water, communication, fire suppression and detection, intrusion detection, heating/air conditioning system with temperature and humidity environmental controls, utilities, pavements, parking, associated site improvements, archeological monitoring, and all necessary supporting facilities for a complete and usable facility. The facility must be able to withstand 190 mile-per-hour typhoon winds for doors, windows, roofs (170 mile-per-hour for other structural elements) and Seismic Zone 4 earthquake criteria. This project will comply with DoD Antiterrorism and Force Protection requirements per Unified Facilities Criteria.

Air Conditioning: 52 Tons


PROJECT: Construct a conventional munitions maintenance facility (CMMF). (New Mission)

REQUIREMENT: An adequately sized and configured CMMF is required to perform maintenance operations, including assembly, disassembly, corrosion control, testing and troubleshooting, repair, routine disposal, demilitarization, and time compliance technical orders (TCTO) on various munitions components and containers. The CMMF facility is required to support a Continuous Bomber Presence (CBP), Tanker Task Force (TTF), Theater Security Packages (TSP), and the Global Hawk beddown. The maintenance facility consists of drive-through work bays, office space, tool room,
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA</th>
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<th>3. INSTALLATION AND LOCATION</th>
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<td>JRM - ANDERSEN AIR FORCE BASE, GUAM</td>
<td>GUAM STRIKE CONVENTIONAL MUNITION MAINTENANCE FACILITY</td>
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<th>5. PROGRAM ELEMENT</th>
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<tr>
<td>27576</td>
<td>216-642</td>
<td>AJJY123011</td>
<td>11,700</td>
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</table>

A training ready room, latrines, and supporting functions, to include electrical, mechanical, and janitor's closet. Air Force Handbook (AFH) 32-1084 Facility Requirements, September 1996 specifies a minimum of three, 9.1-meter by 15.2-meter (30 feet by 50 feet) work bays are required. The facility requires 7,637 gross square feet (GSF).

CURRENT SITUATION: The existing facility is in extremely poor condition and provides for limited capability. The specific bomber mission being supported impacts what will be available to support the fighters. Without this facility, Andersen AFB will not be able to properly maintain munitions used by high priority weapons systems.

IMPACT IF NOT PROVIDED: Without this facility, Andersen AFB will be unable to provide CMMF capabilities to support a Continuous Bomber Presence (CBP), Tanker Task Force (TTF), Theater Security Packages (TSP), and the Global Hawk beddown. Lack of this facility would significantly impact readiness and proficiency, and could result in substantial degradation of operational capability, and may increase the potential for a serious mishap.

ADDITIONAL: This project meets the criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements and PACAF Logistics Facilities Planning Guide. 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. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. The Air Force Sustainable Design and Development Policy dated 31 July 2007 requires the project to be LEED Silver certified. The primary facility costs accounts for 19 of the required 50 credits. 31 additional credits are required to achieve LEED Silver certification. Base Civil Engineer: Lt Col Richard S. Mathews, (671) 366-7101. Conventional Munitions Maintenance Facility 710 SM (7,637 SF).

JOINT USE CERTIFICATION: This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements. This project supports Total Force Integration initiatives.
### FY 2012 MILITARY CONSTRUCTION PROJECT DATA

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<td>27576</td>
<td>216-642</td>
<td>AJJY123011</td>
<td>11,700</td>
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#### 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 468
4. Construction Contract Award 12 FEB
5. Construction Start 12 MAR
6. Construction Completion 13 DEC
7. Energy Study/Life-Cycle analysis was/will be performed YES

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

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1. COMPONENT
AIR FORCE

2. DATE
FY 2012 MILITARY CONSTRUCTION PROJECT DATA

3. INSTALLATION AND LOCATION
JRM - ANDERSEN AIR FORCE BASE, GUAM

4. PROJECT TITLE
GUAM STRIKE FUEL SYSTEMS MAINTENANCE HANGAR

5. PROGRAM ELEMENT
27576

6. CATEGORY CODE
211-179

7. PROJECT NUMBER
AJJY123010

8. PROJECT COST ($000)
128,000

9. COST ESTIMATES

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<th>UNIT COST</th>
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<td>(2,000.0)</td>
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</table>

10. Description of Proposed Construction: Construct a Fuel Systems Maintenance Hangar. The hangar is to be constructed of cast-in-place reinforced concrete consisting of an arched roof supported on three sides by vertical walls. The height of the side walls is set to 34 feet and the height at the center of the arch is set to 68 feet. The arched roof is strengthened with ribs spaced at approximately 31 feet on center. These ribs extend from the roof to the foundation, acting as buttresses for the walls. The roof and side walls are 3 feet 6 inches thick, and the cross-sectional dimensions of the ribs are 3 feet 6 inches wide by 8 feet deep. The front of the shelter, which is not supported on a wall, is covered by a system of horizontally and vertically sliding steel doors that allow the aircraft to enter and exit the shelter. The horizontally sliding doors are partitioned into four sections that slide independently. The vertically sliding door consists of a single section that, in the closed (down) position, provides lateral support to the horizontal doors. The door system is an assembly of steel plates, channels, and tubes. The supporting foundation requires 90,535 SF and is 8 feet thick. The project will include electrical, mechanical, water, communication, fire suppression/detection, intrusion detection, heating/air conditioning system with temperature and humidity environmental controls, utilities, pavements, breathing-air system, parking, associated site improvements, archeological monitoring and all necessary supporting facilities for a complete and usable facility. The facility must be able to withstand 190 mile-per-hour typhoon winds for doors, windows, roofs (170 mile-per-hour for other structural elements) and Seismic Zone 4 earthquake criteria. This project will comply with DoD force protection requirements per Unified Facilities Criteria.

Air Conditioning: 15 Tons
**Component: Construct a fuel systems maintenance hangar. (New Mission)**

**Current Situation:** The existing Hangar 1 provides limited fuel systems maintenance capability and also provides critical B-2 low observable repair capability. Currently this configuration does not meet the overall fuel systems maintenance requirement. The 36th Wing (WG) has designated and certified two parking spaces on the center parking ramp as fuel systems maintenance areas, which is acceptable for minor repairs during contingency operations. The fuel systems workload requires a full-time, diverse, integrated, fuel systems maintenance capability. Hangar One contains the safety and utility functions to provide a limited fuel system repair capability for large frame aircraft; however, to meet unique operational requirements, it cannot be dedicated to the frequent and lengthy repairs associated with home station aircraft.

**Impact if Not Provided:** Without this facility, Andersen AFB will be unable to provide adequate maintenance to aircraft fuel systems to support a Continuous Bomber Presence (CBP), Tanker Task Force (TTF), Theater Security Packages (TSP), and the Global Hawk beddown. Lack of this facility would significantly reduce readiness, and could result in degradation of operational capability, and may increase potential for a serious mishap.

**Additional:** This project meets the criteria/ scope specified in Air Force Handbook 32-1084, Facility Requirements and PACAF Logistics Facilities Planning Guide. A preliminary analysis has been performed and determined that the only viable option is to construct a new Fuel Systems Maintenance Hangar. Therefore, a complete economic analysis was not performed. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: Lt Col Richard S. Mathews (671) 366-7101. Hangar 5,310 SM = 57,160 SF.

**Joint Use Certification:** This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements. This project supports Total Force Integration initiatives.
1. COMPONENT AIR FORCE

2. DATE

3. INSTALLATION AND LOCATION JRM - ANDERSEN AIR FORCE BASE, GUAM

4. PROJECT TITLE GUAM STRIKE FUEL SYSTEMS MAINTENANCE HANGAR

5. PROGRAM ELEMENT 27576

6. CATEGORY CODE 211-179

7. PROJECT NUMBER AJJY123010

8. PROJECT COST ($000) 128,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

   (1) Status:
   (a) Date Design Started 16-JUN-10
   (b) Parametric Cost Estimates used to develop costs YES
   (c) Percent Complete as of 01 JAN 2011 15%
   * (d) Date 35% Designed 16-MAR-11
   (e) Date Design Complete 30-SEP-11
   (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):
   (a) Production of Plans and Specifications 7,680
   (b) All Other Design Costs 3,840
   (c) Total 11,520
   (d) Contract 9,600
   (e) In-house 1,920

(4) Construction Contract Award 12 FEB

(5) Construction Start 12 MAR

(6) Construction Completion 14 JUN

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.

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

<table>
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<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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<tbody>
<tr>
<td>FURNISHINGS</td>
<td>3400</td>
<td>2012</td>
<td>650</td>
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<tr>
<td>SHOP EQUIPMENT</td>
<td>3080</td>
<td>2012</td>
<td>1,350</td>
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10. Description of Proposed Construction: Construct a reinforced concrete operations facility supporting a forward deployed combat communications squadron. The facility will include a field communications equipment service maintenance area, mechanical and electrical spaces, communications, fire suppression/detection, intrusion detection system, environmental controls, utilities, pavements, parking, associated site improvements, hazardous material abatement, and all necessary supporting facilities for a complete and usable facility. The facility must be able to withstand 190 mile-per-hour typhoon winds for doors, windows, roofs (170 mile-per-hour for other structural elements) and Seismic Zone 4 earthquake criteria. This project will comply with DoD antiterrorism force protection requirements per unified facilities criteria.

Air Conditioning: 0 Tons

11. Requirement: 1732 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Construct Combat Communications Combat Support Facility. (Current Mission)

REQUIREMENT: Project is required to complete the beddown of a Combat Communications unit at the new PACAF Regional Training Center (PRTC) that directly supports the mission by providing space for systems operations and maintenance, and critical training for Airmen assigned to the Combat Support work centers. When tasked to meet deployment timelines, all the computer-communication equipment needs to be set up and operationally tested, including all pre-deployment inspections before loading on airlift for deployment to provide communication capabilities for combatant commanders in the Pacific AOR and beyond.

CURRENT SITUATION: This project supports the beddown of a mission to a location...
where no unit of this type exists. There are no facilities at Guam Northwest Field that can meet this mission requirement. Current temporary facilities do not provide the proper operational or maintenance areas for 644 Combat Communications Squadron (CBS) to meet deployment timelines. For the 644 CBS Operations work centers the current temporary facilities have all personnel "hot" desking due to being forced to squeeze into small offices. In addition the 644 CBS cannot meet current deployment tasking timelines due to the non-availability of appropriate maintenance and testing facilities, which are being temporarily conducted outside in a storage lot where a canopy is hung over old racquetball courts as a make-shift "covered" maintenance area.

**IMPACT IF NOT PROVIDED:** Without this facility, the combat communication's mission to rapidly establish and sustain tactical communications command and control systems providing high quality, mission-tailored, communications support to the Air Force and other forces operating within the Pacific theater will be severely limited. Full Operational Capability (FOC) scheduled for Jan 2010 was not achieved and cannot be achieved until this facility is completed.

**ADDITIONAL:** This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements" and project estimates from 36 CES/CEC. A preliminary analysis of reasonable options for accomplishing this project (status quo, lease/rent, relocate, and upgrade) was done. There is only one option that will meet the operational and current mission requirement. Therefore, a complete economic analysis was not performed and a certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. BCE: LtCol Richard Mathews, 671-366-7101. Combat Support Facility 1,732SM = 18,645SF.

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

### 2. DATE
FY 2012 MILITARY CONSTRUCTION PROJECT DATA
(computer generated)

### 3. INSTALLATION AND LOCATION
JRM - ANDERSEN AIR FORCE BASE, GUAM

### 4. PROJECT TITLE
PRTC - COMBAT COMMUNICATIONS COMBAT SUPPORT FACILITY

### 5. PROGRAM ELEMENT
27576

### 6. CATEGORY CODE
217-742

### 7. PROJECT NUMBER
SAKW101001

### 8. PROJECT COST ($000)
9,800

### 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 392

   4. Construction Contract Award 12 FEB

   5. Construction Start 12 MAR

   6. Construction Completion 13 DEC

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

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

<table>
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<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR</th>
<th>APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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<td>FURNISHINGS</td>
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10. Description of Proposed Construction: Construct a reinforced concrete PACAF Regional Training Center (PRTC) Combat Communications Transmission System facility to include excavation, trenching, backfill, grading, reinforced concrete foundations, concrete slabs, concrete/masonry walls, vehicle entry door, structural steel frame, and seamless metal roofing. The facility must be able to withstand 190 mile-per-hour typhoon winds for doors, windows, roofs, (170 mile-per-hour for other structural elements) and Seismic Zone 4 earthquake criteria. This project will comply with DoD antiterrorism force protection requirements per Unified Facilities Criteria.

Air Conditioning: 0 Tons

11. Requirement: 958 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Construct a PACAF Regional Training Center (PRTC) Combat Communications Transmission System Facility. (Current Mission)

REQUIREMENT: Project is required to support beddown of a Combat Communications unit at the new PACAF Regional Training Center at Guam Northwest Field. This is a beddown of a mission to a location where no unit of this type existed. The mission of the 664th Combat Communications Squadron operations (644 CBCS) is to provide communication capabilities for combatant commanders in their Pacific AOR. The 644 CBCS is a self-sufficient organization that provides its own power and shelters, and can deploy to a bare-base location and set up within 24 hours. Some of the capabilities provided by the 644 CBCS include secure and unsecure ultra high frequency communications, land mobile radio communications, SIPR and NIPR email access, Defense Secure Network (DSN) secure and unsecure phone lines, and satellite communication links that transfer the data to its destination. This particular
This facility directly supports the PACOM mission by providing space for the operations, maintenance and training mission of 28 Airmen assigned to the Transmission System work centers, who are currently located in temporary facilities on Andersen main base, several miles from the PRTC campus.

**CURRENT SITUATION:** This project supports the beddown of a mission to a location where no unit of this type exists. There are no facilities at Guam Northwest Field that can meet this mission requirement. The recently arrived 644 CBCS has 137 personnel scattered at different locations ten miles from the PRTC at Guam NW Field. Personnel are located in three temporary facilities located at various locations around Andersen main base proper. For the transmission (satellite communications equipment) work center, the section requires 10.2K Sq Ft for operational, maintenance, and training area. Current temporary facilities have 150 Sq Ft of operations space and 500 Sq Ft of maintenance and testing areas. All personnel (28) are "hot" desking and are forced to squeeze into one small office. There are no other facilities available on the installation to meet this CBCS requirement. 644 CBCS cannot meet current deployment tasking timelines due to the non-availability of required operations, maintenance and testing facilities.

**IMPACT IF NOT PROVIDED:** This project is critical to providing the only available on-site transmission equipment including satellite communications equipment work center required to support the forward deployed combat communications squadron being beddown at Northwest Field. Without this facility, the combat communication's mission to rapidly establish and sustain tactical communications command and control systems providing high quality, mission-tailored, communications support to the Air Force and other forces operating within the Pacific theater will be severely limited. Full Operational Capability (FOC) scheduled for Jan 2010 was not achieved and cannot be achieved until this facility is completed.

**ADDITIONAL:** This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements" and project estimates from 36 CES/CBC. As a final MILCON for the Combat Communications cantonment area, security fencing, with secure accesses, is included in this MILCON for the entire cantonment area. Additional pavement is required for siting and field testing satellite communications equipment. 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. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: Lt Col Richard S. Mathews (671) 366-7101. Operation Facility: 958 SM = 10,312 SF.

**JOINT USE CERTIFICATION:** This facility can be used by other components on an "as available" basis; however, the scope of the project is based on Air Force requirements.
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<th>4. PROJECT TITLE</th>
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12. SUPPLEMENTAL DATA:

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   (2) Basis:
       (a) Standard or Definitive Design - NO
       (b) Where Design Was Most Recently Used -
   (3) All Other Design Costs  224
   (4) Construction Contract Award  12 FEB
   (5) Construction Start  12 MAR
   (6) Construction Completion  13 DEC
   (7) Energy Study/Life-Cycle analysis was/will be performed YES

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

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2. DATE

3. INSTALLATION AND LOCATION  JRM - ANDERSEN AIR FORCE BASE, GUAM
4. PROJECT TITLE  PRTC - RED HORSE CANTONMENT OPERATIONS FACILITY

5. PROGRAM ELEMENT  27576
6. CATEGORY CODE  219-944
7. PROJECT NUMBER  SAKW059101
8. PROJECT COST ($000)  14,000

9. COST ESTIMATES

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<td>TOTAL REQUEST (ROUNDED)</td>
<td></td>
<td></td>
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<td>14,000</td>
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10. Description of Proposed Construction: Construct a reinforced concrete facility. The facility will include offices, training areas, maintenance and inspection shops, storage spaces, mechanical and electrical spaces, communications, fire suppression/detection, air ventilation system, utilities, pavements, parking, associated site improvements, hazardous material abatement, and archeological monitoring and all necessary supporting facilities for a complete and usable facility. This project will comply with DoD antiterrorism force protection requirements per Unified Facilities Criteria.

Air Conditioning: 5 Tons

11. Requirement: 1646 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: Construct RED HORSE Cantonment Operations Facility. (Current Mission)

REQUIREMENT: Project is required to support bedding of the 554 RED HORSE at the new PACAF Regional Training Center (PRTC) at Guam Northwest Field. The mission of the 554th RED HORSE Squadron is to provide the Air Force with a highly mobile civil engineer response force to support contingency and special operations worldwide. The 554 RED HORSE is a self-sufficient organization that provides its own power and shelters, and can deploy to a bare-base location and set up within 24 hours. This facility directly supports the mission by providing space for its operations and maintenance functions as well as training for Airmen assigned to the Cantonments Operations Facility.

CURRENT SITUATION: This project supports the bedding of a mission to a location where no unit of this type exists. There are no facilities at Guam NW Field that can meet this mission requirement, and the recently arrived 554 RED HORSE squadron currently has all 158 personnel located in temporary facilities on the main base.
<table>
<thead>
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<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA</th>
</tr>
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<tbody>
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<tr>
<td>3. INSTALLATION AND LOCATION</td>
<td>4. PROJECT TITLE</td>
</tr>
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<td>JRM - ANDERSEN AIR FORCE BASE, GUAM</td>
<td>FRTC - RED HORSE CANTONMENT OPERATIONS FACILITY</td>
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<td>5. PROGRAM ELEMENT</td>
<td>6. CATEGORY CODE</td>
</tr>
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<td>27576</td>
<td>219-944</td>
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and in Sea Land containers as shop space in Northwest Field. This facility directly supports the mission by providing space for operational, maintenance and training for 23 Airmen assigned to the Cantonments Operations Facility.

**IMPACT IF NOT PROVIDED:** This facility will provide the only available on-site cantonments; utilities, electrical, HVAC, metal shop and carpentry work center required to support the 554 RED HORSE squadron being beddown at Northwest Field. Therefore, 13 AF, PACAF and PACOM lose capability to employ RED HORSE vertical construction assets. Squadron will not be able to prepare equipment and personnel to meet required 12 hour minimum enabler response time. Labor forces lack primary training/ops center for carpentry, tilt-up, metal, HVAC, electrical, and utility specialties in addition to RED HORSE specific special capabilities. Without this facility, the RED HORSE mission to rapidly establish and sustain engineering support to the Air Force and other forces operating within the Pacific theater will be severely limited. Full Operational Capability (FOC) scheduled for Jan 2010 has not been achieved and cannot be achieved until this facility is provided.

**ADDITIONAL:** This project meets the criteria/scope specified in Air Force Handbook 32-1084, "Facility Requirements" and project estimates from 36 CES/CEV. 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. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive Orders. Base Civil Engineer: LtCol Richard S. Mathews (671) 366-7101. Red Horse Cantonment Operation Facility: 1,647 SM = 17,730 SF.

**JOINT USE CERTIFICATION:** This facility can be used by other components on an "as available" basis; however, the scope of this project is based on Air Force requirements. This project supports Total Force Integration initiatives.
1. COMPONENT
AIR FORCE

2. DATE

3. INSTALLATION AND LOCATION
JRM - ANDERSEN AIR FORCE BASE, GUAM

4. PROJECT TITLE
PRTC - RED HORSE CANTONMENT OPERATIONS FACILITY

5. PROGRAM ELEMENT
27576

6. CATEGORY CODE
219-944

7. PROJECT NUMBER
SAKW059101

8. PROJECT COST ($000)
14,000

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 560

(4) Construction Contract Award 12 FEB

(5) Construction Start 12 MAR

(6) Construction Completion 13 DEC

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

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

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>FISCAL YEAR</th>
<th>PROCUREMENT APPROPRIATION</th>
<th>COST ($000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Furnishings</td>
<td>3400</td>
<td>2012</td>
<td>450</td>
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</table>
### 1. COMPONENT

**AIR FORCE**

### 2. DATE

### 3. INSTALLATION AND LOCATION

**NAS SIGONELLA, ITALY**

### 4. COMMAND:

**UNITED STATES AIR FORCES**

### 5. AREA CONST

**COST INDEX**

1.41

### 6. Personnel

<table>
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<tr>
<th>Strength</th>
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<th>STUDENTS</th>
<th>SUPPORTED</th>
<th>TOTAL</th>
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<tbody>
<tr>
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<td>OFF 62</td>
<td>ENL 53</td>
<td>CIV 58</td>
<td>113</td>
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<tr>
<td>END FY 2015</td>
<td>OFF 2</td>
<td>ENL 53</td>
<td>CIV 58</td>
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</table>

### 7. INVENTORY DATA ($000)

- **a.** Total Acreage: N/A
- **b.** Inventory Total as of: (30 Sep 10) 0
- **c.** Authorization Not Yet in Inventory: 31,300
- **d.** Authorization Requested in this Program: 15,000
- **f.** Planned in Next Four Years Program: 0
- **h.** Grand Total: 46,300

### 8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2010)

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>COST</th>
<th>DESIGN</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CODE</td>
<td>PROJECT TITLE</td>
<td>SCOPE</td>
<td>$,000</td>
</tr>
<tr>
<td>141-454</td>
<td>UAS SATCOM Relay Pads and Facility</td>
<td>1,200 SM</td>
<td>15,000</td>
</tr>
</tbody>
</table>

Total 31,300

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

None

### 9b. Real Property Maintenance Backlog This Installation

N/A

### 10. Mission or Major Functions:

The Global Hawk provides long endurance reconnaissance capability using electro-optical (EO), infra-red (IR), and synthetic aperture radar (SAR) at high altitudes.

### 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
AIR FORCE

2. DATE
(computer generated)

3. INSTALLATION AND LOCATION
NAVAL AIR STATION SIGONELLA, ITALY

4. PROJECT TITLE
UAS SATCOM RELAY PADS AND FACILITY

5. PROGRAM ELEMENT
35219

6. CATEGORY CODE
141-454 HACC123204

7. PROJECT NUMBER

8. PROJECT COST ($000)
15,000

9. COST ESTIMATES

<table>
<thead>
<tr>
<th>ITEM</th>
<th>U/M</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>COST ($000)</th>
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</thead>
<tbody>
<tr>
<td>PRIMARY FACILITIES</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>SATCOM COMMUNICATIONS SUPPORT FACILITY</td>
<td>SM</td>
<td>1,200</td>
<td>4,042</td>
<td>( 4,850 )</td>
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<tr>
<td>ANTENNA PADS AND CONNECTOR PANELS</td>
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<td>12</td>
<td>145,000</td>
<td>( 1,740 )</td>
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<tr>
<td>SDD &amp; EPACT05</td>
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<td>SUPPORTING FACILITIES</td>
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<td>UTILITIES</td>
<td>LS</td>
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<td>( 300 )</td>
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<tr>
<td>BACK-UP POWER GENERATORS WITH AUTO-TRANSFER</td>
<td>LS</td>
<td></td>
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<td>( 240 )</td>
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<tr>
<td>PASSIVE FORCE PROTECTION MEASURES (PL-2)</td>
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<td>( 394 )</td>
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<td>EXTERIOR COMMUNICATION SUPPORT</td>
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<td></td>
<td></td>
<td>( 1,750 )</td>
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<td>BACK-FILL MATERIAL</td>
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<td>( 2,356 )</td>
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<tr>
<td>SITE DEVELOPMENT AND IMPROVEMENTS</td>
<td>LS</td>
<td></td>
<td></td>
<td>( 702 )</td>
</tr>
<tr>
<td>PAVEMENTS AND ROADS</td>
<td>LS</td>
<td></td>
<td></td>
<td>( 375 )</td>
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<td>ENVIRONMENTAL SUPPORT</td>
<td>LS</td>
<td></td>
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<td>( 150 )</td>
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<tr>
<td>SUBTOTAL</td>
<td></td>
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<td>6,722</td>
</tr>
<tr>
<td>CONTINGENCY (5.0%)</td>
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<td></td>
<td>649</td>
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<tr>
<td>TOTAL CONTRACT COST</td>
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<td>13,639</td>
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<td>SUPERVISION, INSPECTION AND OVERHEAD (6.5%)</td>
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<td>DESIGN/BUILD - DESIGN COST (4.0% OF SUBTOTAL)</td>
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<td>TOTAL REQUEST</td>
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<td></td>
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<tr>
<td>TOTAL REQUEST (ROUNDED)</td>
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<td></td>
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<td>15,000</td>
</tr>
<tr>
<td>EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)</td>
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<td></td>
<td></td>
<td>( 1,225 )</td>
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</tbody>
</table>

10. Description of Proposed Construction: All civil, structural, mechanical, electrical, fire prevention/alarm, site, and communication supporting work necessary for the construction of an Unmanned Aircraft System (UAS) Satellite Communications (SATCOM) Relay facility. The project consists of masonry constructed facilities with sloped roofing systems, foundations, and floor slabs. Provides space for operations, admin, and maintenance functions. Includes site work to include 12 each UAS SATCOM Relay structural pads with associated foundations and growth for 8 additional UAS SATCOM relay pads, hardscape utilities, and underground conduit connectivity to the main facility with breakout panels and connections. The site perimeter and building cooling systems shall be sized for the 8 additional UAS SATCOM relay pads. Scope includes demolition of pavements/utilities to make way for vehicle parking and access roads. The work shall include other necessary pavements, utilities, site work, storm water drainage, back-fill material as required to support the facilities mission requirements. Work shall be in compliance with current US Air Force and host base regulations. The project will comply with antiterrorism/force protection requirements per the Unified Facility Criteria.

Air Conditioning: 90 Tons

11. Requirement: 1200 SM Adequate: 0 SM Substandard: 0 SM

PROJECT: UAS SATCOM Relay Pads and Facility. (New Mission)

REQUIREMENT: UAS require an adequate-sized and configured facility to ensure
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR FORCE</td>
<td>(computer generated)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2. DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>NAVAL AIR STATION SIGONELLA, ITALY</td>
<td>UAS SATCOM RELAY PADS AND FACILITY</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>35219</td>
<td>141-454</td>
<td>HACC123204</td>
<td>15,000</td>
</tr>
</tbody>
</table>

maximum mission effectiveness during weapons engagement and reconnaissance missions in support of the war-fighters. The construction of a SATCOM Antenna Relay facility and compound is required in order to support remote controlled aircraft command links, connecting CONUS-based Ground Control Stations (GCS) / Mission Control Elements (MCE) with Remotely Piloted Aircraft (RPA) in the AOR. Therefore completion of this project will satisfy the long term SATCOM Relay requirements for Predator (MQ-1), Reaper (MQ-9), and Global Hawk (RQ-4). The site will also support Navy Broad Area Surveillance Delta (BAMS-D) and Big Safari/special operations missions. The supporting facilities costs exceed 25% of the primary facilities costs, due to the facility being built in an undeveloped environmentally sensitive area, requiring substantial back-fill material, extensive utilities and communication runs, as well as by the required PL-2 security features.

CURRENT SITUATION: Predator, Reaper, and Global Hawk aircraft will use this site to conduct operations within EUCOM, AFRICOM, and CENTCOM in support of Overseas Contingency Operations. Because of multi-theater-wide operations, an additional SATCOM Relay Station must be located in the AOR to provide most current information to the war-fighting commander at any time demanded. This site will carry half of the UAS transmissions and act as a back-up system to the Ramstein site to avoid single point of failure.

IMPACT IF NOT PROVIDED: Adequate facilities will not be available to perform these vital operations associated with the UAS aircraft. Without these facilities, the aircraft will not be able to perform their essential UAS missions within EUCOM, AFRICOM, and CENTCOM, and UAS weapon strikes cannot be supported. Therefore lack of this UAS SATCOM Relay Site could result in significant degradation of operational capability and have a serious impact on ongoing, as well as future mission supporting Overseas Contingency Operations.

ADDITIONAL: This project is not eligible for NATO funding. This project meets the criteria/scope specified in AFH 32-1084, "Facility Requirements". A preliminary analysis of reasonable options was done and indicated that only one option meets operational requirements, new construction. Therefore an economic analysis was not performed. A certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into the design, development and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders. Base Civil Engineer; Lt (USN) Chad Marshall, 011-39-095-86-2370, DSN 314-624-2370. SATCOM Communications Support Facility: 1200 SM = 12,912 SF.

FOREIGN CURRENCY: FCF Budget Rate Used: EURO-DOLLAR .7491

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.
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>FY 2012 MILITARY CONSTRUCTION PROJECT DATA (computer generated)</th>
<th>2. DATE</th>
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</thead>
<tbody>
<tr>
<td>AIR FORCE</td>
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<tr>
<td>3. INSTALLATION AND LOCATION</td>
<td>4. PROJECT TITLE</td>
<td>UAS SATCOM RELAY PADS AND FACILITY</td>
</tr>
<tr>
<td>NAVAL AIR STATION SIGONELLA, ITALY</td>
<td>5. PROGRAM ELEMENT</td>
<td>6. CATEGORY CODE</td>
</tr>
<tr>
<td>141-454</td>
<td>7. PROJECT NUMBER</td>
<td>8. PROJECT COST ($000)</td>
</tr>
<tr>
<td>HACC123204</td>
<td>15,000</td>
<td></td>
</tr>
</tbody>
</table>

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 600

(4) Construction Contract Award 12 JAN

(5) Construction Start 12 MAR

(6) Construction Completion 13 SEP

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

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

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCUREMENT APPROPRIATION</th>
<th>FISCAL YEAR APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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<tbody>
<tr>
<td>COMMUNICATIONS SUPPORT</td>
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<td>2013</td>
<td>310</td>
</tr>
<tr>
<td>EQUIPMENT</td>
<td>3080</td>
<td>2013</td>
<td>915</td>
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</table>
1. COMPONENT
AIR FORCE

2. DATE

3. INSTALLATION AND LOCATION
OSAN AIR BASE
KOREA

4. COMMAND:
PACIFIC AIR COMMAND

5. AREA CONST
COST INDEX
1.06

6. Personnel Strength

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<td>OFF</td>
<td>ENL</td>
<td>CIV</td>
<td>OFF</td>
<td>ENL</td>
<td>CIV</td>
<td>OFF</td>
<td>ENL</td>
<td>CIV</td>
<td>TOTAL</td>
</tr>
<tr>
<td>AS OF 30 SEP 10</td>
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<td>3,474</td>
<td>645</td>
<td>0</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4,557</td>
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<tr>
<td>END FY 2015</td>
<td>441</td>
<td>3,606</td>
<td>649</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>4,696</td>
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7. INVENTORY DATA ($000)

- Total Acreage: 1,788
- Inventory Total as of (30 Sep 10): 2,241,100
- Authorization Not Yet in Inventory: 216,900
- Authorization Requested in this Program: 23,000
- Planned in Next Four Years Program: 31,581
- Remaining Deficiency: 75,000
- Grand Total: 2,587,581

8. PROJECTS REQUESTED IN THIS PROGRAM: (FY 2012)

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>CODE</th>
<th>PROJECT TITLE</th>
<th>SCOPE</th>
<th>COST,000</th>
<th>DESIGN</th>
<th>STATUS</th>
<th>START</th>
<th>CMPL</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>721-312</td>
<td>Dormitory (156 RM)</td>
<td>156 RM</td>
<td>$23,000</td>
<td>Jun-10</td>
<td>Sep-11</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

- 141-753 Construct 36FS Operations/AMU Facility: $24,081
- 171-212 DMT Flight Simulator Facility: $7,500

9b. Real Property Maintenance Backlog This Installation

10. Mission or Major Functions: A host fighter wing supporting an F-16 squadron and an A/OA-10 squadron, Headquarters Seventh Air Force, and a MH-53J special operations squadron. The wing also hosts a civil engineer heavy repair squadron (RED HORSE), an Air Mobility Command air mobility support squadron, and Air Combat Command reconnaissance squadron, and an Air Intelligence Agency intelligence squadron.

11. Outstanding pollution and Safety (OSHA Deficiencies):

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

DD Form 1390, 24 Jul 00
## Description of Proposed Construction

Construct a new multi-story, 156-person (PN) Airman Dormitory to house permanently-stationed personnel at Osan AB. Structure shall consist of reinforced concrete foundation, walls, and floors with a structural steel roof system, with all utilities and supports. The project includes fire protection system, force protection measures, communications, and emergency generators. Areas include 4-plex modules, lounge, public restrooms, bulk storage, and mechanical rooms. Demolition of five facilities (16,242 SM) and environmental cleanup is also included in the project. This project provides all necessary supporting facilities for a complete and usable facility. This project will comply with DoD antiterrorism/force protection requirements per unified facilities criteria.

### Air Conditioning
- **200 Tons**
- **Grade Mix:** E1-E4 156

### Requirement
- 2675 RM Adequate: 1435 RM Substandard: 1296 RM

### Project
- **PROJECT:** Construct a new 156-person airman dormitory. (Current Mission)
- **REQUIREMENT:** Eliminate the deficiency in unaccompanied personnel housing and improve quality of life for enlisted personnel while better utilizing existing dormitory space for grades E1-E4. Adequate support in the form of unaccompanied housing must be provided for operations at this joint, warfighting installation.
- **CURRENT SITUATION:** The FY2008 Osan Air Base Dormitory Master Plan documented multiple deteriorating on-base airman dormitories. The Airman dormitories ranked amongst the lowest. They are constantly plagued with maintenance issues and experience a continual flow of work orders. A major Air Force objective is to provide unaccompanied enlisted personnel with housing conducive to enable proper rest, relaxation, and personal well being. Properly designed, adequately configured, and furnished living quarters, which provide individual privacy, is

### Cost Estimates

<table>
<thead>
<tr>
<th>Item Description</th>
<th>U/M</th>
<th>Quantity</th>
<th>Unit Cost</th>
<th>Total Cost</th>
</tr>
</thead>
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<tr>
<td>PRIMARY FACILITY</td>
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<td></td>
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<tr>
<td>DORMITORY</td>
<td>SM</td>
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<td>2,622</td>
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<tr>
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<td>(830)</td>
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<td>PAVEMENTS</td>
<td>LS</td>
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<td></td>
<td>(814)</td>
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<td>PASSIVE PROTECTION</td>
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<td></td>
<td></td>
<td>(100)</td>
</tr>
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<td>COMMUNICATIONS</td>
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<td>(350)</td>
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<td>ELEVATOR</td>
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<td></td>
<td>(125)</td>
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<tr>
<td>DEMOLITION</td>
<td>SM</td>
<td>16,242</td>
<td>129</td>
<td>(2,090)</td>
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**Subtotal:** 20,634

**Contingency:** (5.0%) 1,032

**Total Contract Cost:** 21,666

**Supervision, Inspection and Overhead:** (6.5%) 1,408

**Total Request:** 23,074

**Total Request (Rounded):** 23,000

**Equipment from Other Appropriations (Non-ADD):** (1,092.0)
<table>
<thead>
<tr>
<th>1. COMPONENT</th>
<th>2. DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>AIR FORCE</td>
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<tr>
<td></td>
<td>(computer generated)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>3. INSTALLATION AND LOCATION</th>
<th>4. PROJECT TITLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>OSAN AIR BASE, KOREA (REPUBLIC OF)</td>
<td>DORMITORY (156 RM)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>5. PROGRAM ELEMENT</th>
<th>6. CATEGORY CODE</th>
<th>7. PROJECT NUMBER</th>
<th>8. PROJECT COST ($000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>27576</td>
<td>721-312</td>
<td>SMYU123002</td>
<td>23,000</td>
</tr>
</tbody>
</table>

essential to meet this objective. Most Airman Dorms were constructed between 1980s and early 1990s, are undersized, and have far surpassed their useful life. Beyond utility and HVAC failures, deteriorated interior walls, and damaged flooring, the dorms have also become susceptible to mold, a recognized influence leading to poor health.

IMPACT IF NOT PROVIDED: Airmen serve a vital role in the performance and integrity of their units. They are directly responsible for daily unit operations. For them to have adequate living quarters the facility must offer a level of privacy otherwise it would risk degrading morale, productivity, and career satisfaction for unaccompanied enlisted personnel. Quality of living conditions directly translates into better job performance. At an overseas location where over 90% of the base populace lives in on-base housing, it is impractical to keep a strong readiness posture with inadequate rest. This dorm will incorporate antiterrorism force protection standards to meet DoD minimum and/or theater requirements.

ADDITIONAL: This project is a crucial part of the FY2008 Osan Air Base Dormitory Master Plan. This project is eligible for Republic of Korea Funded Construction (ROKFC), but is not included in this program because limited ROKFC funding will give little chance to get approved/funded in a reasonable time frame. This project meets the criteria/scope specified in Air Force Handbook (AFH) 32-1084 "Civil Engineering, Facility Requirements." A preliminary analysis of reasonable options for accomplishing this project (status quo, renovation, new construction, and/or leasing) was done. It indicates there is only one option, new construction, to meet operational requirements. Because of this, a full economic analysis was not performed. A certificate of exception has been prepared. FY2009 Unaccompanied Housing RPM Conducted: $172K; FY2010 Unaccompanied Housing RPM Conducted: $218K.; Future Unaccompanied Housing RPM Requirements (estimated): FY2011 = $214K; FY2012 = $236K; FY2013 = $259K. Sustainable principles, to include life cycle cost-effective practices, will be integrated into the design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c), and other applicable laws and Executive orders. Base Civil Engineer: Lt Col Scott B. Matthews, 011-82-31-661-4312.

FOREIGN CURRENCY: FCF Budget Rate Used: WON 1099.5183

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.
### FY 2012 MILITARY CONSTRUCTION PROJECT DATA

**COMPONENT**
- AIR FORCE

**PROGRAM ELEMENT**
- 27576

**CATEGORY CODE**
- 721-312

**PROJECT NUMBER**
- SMYU123002

**PROJECT COST ($000)**
- 23,000

**INSTALLATION AND LOCATION**
- OSAN AIR BASE, KOREA (REPUBLIC OF)

**PROJECT TITLE**
- DORMITORY (156 RM)

---

#### 12. SUPPLEMENTAL DATA:

**a. Estimated Design Data:**

1. **Status:**
   - (a) Date Design Started: 16-JUN-10
   - (b) Parametric Cost Estimates used to develop costs: YES
   - (c) Percent Complete as of 01 JAN 2011: 15%
   - (d) Date 35% Designed: 16-MAR-11
   - (e) Date Design Complete: 30-SEP-11
   - (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):**
   - (a) Production of Plans and Specifications: 1,380
   - (b) All Other Design Costs: 690
   - (c) Total: 2,070
   - (d) Contract: 1,725
   - (e) In-house: 345

4. **Construction Contract Award:**
   - 12 FEB

5. **Construction Start:**
   - 12 MAR

6. **Construction Completion:**
   - 14 JUN

* Indicates completion of Project Definition with Parametric Cost Estimate which is comparable to traditional 35% design to ensure valid scope, cost and executability.

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

<table>
<thead>
<tr>
<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>APPROPRIATED OR REQUESTED</th>
<th>COST ($000)</th>
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</thead>
<tbody>
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<td>COST DESIGN</td>
<td>STATUS</td>
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<td>CLASSIFIED DATA</td>
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<td>721-312</td>
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<tr>
<td></td>
<td></td>
<td>37,000</td>
<td></td>
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<td>Jun-11</td>
<td></td>
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<tr>
<td>9a. Future Projects: Typical Planned Next Four Years:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>721-312</td>
<td>Blatchford-Preston Complex Ph IV-B</td>
<td>24,000</td>
<td></td>
</tr>
</tbody>
</table>

9b. Real Property Maintenance Backlog This Installation: ($M) n/a

10. Mission or Major Functions: 379 Air Expeditionary Wing - a multi-purpose wing that supports a range of missions to include: fighter, airlift, refueling, intelligence, surveillance and reconnaissance; Combined Air Operations Center; the Aerial Port Control Center, Expeditionary Air Mobility Squadron and an Expeditionary RED HORSE Group.

NOTE 1: Personnel numbers at a contingency location are classified, therefore not provided.

NOTE 2: Not a US owned installation therefore we do not have real property data.

NOTE 3: Some projects may be funded by host nation but are identified in the Al Udeid Master Plan.

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

DD Form 1390, 9 Jul 02
### 9. Cost Estimates

<table>
<thead>
<tr>
<th>Item</th>
<th>U/M</th>
<th>Quantity</th>
<th>Unit</th>
<th>Cost</th>
<th>Cost ($)</th>
</tr>
</thead>
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<td>Primary Facilities</td>
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<tr>
<td>Billeting Facilities</td>
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<td>18,566</td>
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<td>(567)</td>
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<tr>
<td>Supporting Facilities</td>
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<td>Utilities</td>
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<td>(742)</td>
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<tr>
<td>Communications</td>
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<td>Subtotal</td>
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<td>Equipment from Other Appropriations (NON-ADD)</td>
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</tbody>
</table>

10. Description of Proposed Construction: Construct dormitories with concrete foundations and masonry walls. Project includes all site work, infrastructure/utilities, communications, fire protection/suppression and force protection required to make facilities complete and usable. Force Protection will comply with minimum DoD Standards. Air Conditioning: 440 Tons


PROJECT: Blatchford Preston Complex, Phase IV (Current Mission)

REQUIREMENT: Al Udeid has been identified by CENTCOM as an enduring location, its current contingency-standard billeting and support facilities (originally built at the base in 2003 for expedient operations; now overcrowded and failing) must be replaced to a permanent standard. The base requires permanent-standard billeting for projected steady-state population of approximately 6,200 personnel to support long-term/enduring presence. Dormitories are being constructed to allow flexibility in room assignments, with rotational personnel assigned 2+2, permanent-party assigned 1+1 and senior personnel (O-6, Chief) assigned 1+0. Total requirement is 4,900 rooms in 25 dormitories. The two dormitories in Blatchford Preston Complex (BPC) Phase IV will bring the total to 17 dormitories completed.

CURRENT SITUATION: 15 of 25 required dormitories have previously been funded (9 by FY 2003 MILCON as Millennium Village, 2 by the Host Nation as part of CENTCOM Forward Headquarters, 2 by FY 2010 MILCON as BPC Phase II, and 2 by FY 2011 MILCON as BPC Phase III). Remaining base population is still housed in temporary contingency-standard facilities constructed in 2003. Those facilities are now past their intended lifespan and are failing in the harsh Qatari climate. The temporary facilities are geographically separated from the permanent dormitories, causing operational inefficiencies (especially in support facilities now duplicated or split between Coalition Compound and BPC) and creating a division, both real and perceptual, between those living in temporary quarters and those in the newer, permanent-standard, facilities.

See Amendment Dated September 2011

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**IMPACT IF NOT PROVIDED:** If Phase IV and later phases are not funded approximately two fifths of the base population will be forced to live in substandard temporary quarters. The base populace will be split between two living areas, base support will be forced to operate inefficiently from split locations and the contingency-standard temporary facilities will continue to deteriorate. The temporary facilities will require replacement at an estimated cost of $750,000 per facility as they fail. Total replacement will be required every five to seven years at a cost of $40 million per replacement cycle.

**ADDITIONAL:** This project meets the criteria/scope specified in Air Force Handbook 32-1084, Facility Requirements. An economic analysis was not performed for this project. A preliminary analysis of reasonable options for meeting this requirement (status quo, renovation, new construction) was done. It indicates there is only one option that will meet the operational requirements: new construction. Therefore, a certificate of exception has been prepared. Sustainable principles, to include Life Cycle cost-effective practices, will be integrated into design, development, and construction of the project in accordance with Executive Order 13423, 10 USC 2802 (c) and other applicable laws and Executive Orders. The project is supported by CENTCOM and is on the Master Plan Priority List (MPPL). The Implementing Agreement signed in November 2002 between the United States Government and the Government of Qatar does not cover all construction. It did specify that the United States was responsible to fund Blatchford-Preston (Millennium Village) facilities. In 2008, Millennium Village was renamed Blatchford-Preston Complex by direction of COMUSCENTAF. Civil Engineer: Mr. David Nelson; 803-895-8843; (Blatchford-Preston Complex, billeting facilities 18,566 SM = 199,8434 SF).

**JOINT USE CERTIFICATION:** This facility is programmed for joint use with SOCCENT; however, it is fully funded by the Air Force.
1. COMPONENT | AIR FORCE
---|---
2. DATE |
3. INSTALLATION AND LOCATION | AL UDEID AB, QATAR
4. PROJECT TITLE | BRAFTORD PRESTON COMPLEX PHASE IV
5. PROGRAM ELEMENT | 27576
6. CATEGORY CODE | 721-312
7. PROJECT NUMBER | ALUA103006
8. PROJECT COST ($000) | 37,000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:
   (a) Date Design Started 18-JUN-10
   (b) Parametric Cost Estimates used to develop costs YES
   * (c) Percent Complete as of 01 JAN 2011 15%
   * (d) Date 35% Designed 16-FEB-11
   (e) Date Design Complete 30-JUN-11
   (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 ($000) = (a) + (b) or (d) + (e):
   (a) Production of Plans and Specifications 2,220
   (b) All Other Design Costs 1,110
   (c) Total 3,330
   (d) Contract 2,680
   (e) In-house 650

(4) Construction Contract Award 12 JAN
(5) Construction Start 12 MAR
(6) Construction Completion 14 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:

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<th>EQUIPMENT NOMENCLATURE</th>
<th>PROCURING APPROPRIATION</th>
<th>FISCAL YEAR</th>
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<td>QUANTITY</td>
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<td>TOTAL REQUEST (ROUNDED)</td>
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</table>

11. Requirement: Adequate: Substandard:

PROJECT: As required.

REQUIREMENT: Minor construction projects authorized by 10 U.S. Code 2805 are military construction projects with an estimated funded cost between $750,000 and $2,000,000; however projects with an estimated funded cost of up to $3,000,000 may be funded under this authority to correct life, health, or safety deficiencies. This package provides a means of accomplishing urgent projects that are not identified but which are anticipated to arise during FY12. Included would be projects to support new mission requirements, new equipment, and other essential support to Air Force missions and functions that could not wait until availability of FY12 Military Construction Program funds.
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1. COMPONENT: AIR FORCE  
2. DATE: (computer generated)  
3. INSTALLATION AND LOCATION: HQ USAF, DISTRICT OF COLUMBIA  
4. PROJECT TITLE: PLANNING AND DESIGN  
5. PROGRAM ELEMENT: 91211  
6. CATEGORY CODE: 102-11 PAYZ120002  
7. PROJECT NUMBER: 8  
8. PROJECT COST ($000): 81,913  
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<td>( 81,913 )</td>
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</tr>
</tbody>
</table>
10. Description of Proposed Construction:  
As required. These planning and design funds are required to complete the design of facilities in the FY13 Military Construction Program, initiate design of facilities in the FY14 Military Construction Program, and accomplish planning and design for major and complex technical projects with long lead-time to be included in subsequent Military Construction programs. Also provide funds for value engineering and for the support of design and construction management of projects that are funded by foreign governments and for design of classified and special programs. In addition, these funds are also used for developing the Tri-Services Cost Estimating Guide and Unified Facilities Criteria.  
11. Requirement: Adequate: Substandard:  
PROJECT: As required.  
REQUIREMENT: These planning and design funds are required to complete the design of facilities in the FY13 Military Construction Program, initiate design of facilities in the FY14 Military Construction Program, and accomplish planning and design for major and complex technical projects with long lead-time to be included in subsequent Military Construction programs. Also provide funds for value engineering and for the support of design and construction management of projects that are funded by foreign governments and for design of classified and special programs. In addition, these funds are also used for developing the Tri-Services Cost Estimating Guide and Unified Facilities Criteria.