1.Component NAVY	**FY 2005 MILITARY CONSTRUCTION PROGRAM**	2.Date 18 FEB 2004

3. Installation and Location/UIC: NC1002 VARIOUS LOCATIONS WORLDWIDE	4. Project Title PRESIDENTIAL AIRCRAFT MAINT HANGAR (WHITE SIDE)

5.Program Element	6.Category Code	7. Project Number	8. Project Cost ($000)
0206496M	21105	P448	18,560

9. COST ESTIMATES

Item	UM	Quantity	Unit Cost	Cost($000)
PRESIDENTIAL AIRCRAFT MAINT HANGAR (WHITE SIDE) (180,252 SF)	m2	16,746		38500
HANGAR COMPLEX (180,252 SF)	m2	16,746	1,885.10	(31570)
BUILT-IN EQUIPMENT	LS			(3880)
TECHNICAL OPERATING MANUALS	LS			(300)
INFORMATION SYSTEMS	LS			(230)
ANTI-TERRORISM/FORCE PROTECTION	LS			(1260)
SPECIAL COSTS	LS			(1260)
SUPPORTING FACILITIES				7160
ELECTRICAL UTILITIES	LS			(2690)
MECHANICAL UTILITIES	LS			(1020)
PAVING AND SITE IMPROVEMENT	LS			(2050)
SITE PREPARATION	LS			(1400)
SUBTOTAL				45660
CONTINGENCY (5%)				2280
TOTAL CONTRACT COST				47940
SIOH (6%)				2880
SUBTOTAL				50820
DESIGN/BUILD - DESIGN COST				1830
LESS INCREMENT II FUNDING	LS			-34098
TOTAL REQUEST ROUNDED				18552
TOTAL REQUEST				18560

10. Description of Proposed Construction

Provide 5 modules of Type I hangar space and adjacent administrative and support areas on reinforced concrete slab and pile foundation with structural steel frame, concrete masonry unit (CMU) and brick infill walls, standing seam metal siding and standing seam metal roof. Special costs include architecture to match existing architecture. Built-in equipment includes mass notification intercom, heating, ventilation and air conditioning, plumbing, and appropriate fire suppression systems. Construction includes a vaulted room to meet Sensitive Compartmented Information Facility (SCIF) security standards. Provide an aircraft washrack with utility building. Provide reinforced concrete van pads with utilities, tie-downs, security fencing and access controls. Provide fencing, gates, signs, and appropriate access controls to meet Level 3 restricted area security criteria. Design shall be in accordance with sustainable design principles wherever feasible and cost effective. Design shall comply with Department of Defense Anti-Terrorism/Force Protection standards. Construction shall also include landscaping and adjacent privately owned vehicle parking.

11. Requirement: 16746m2 **Adequate:** 0m2 **Substandard:** 0m2

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PROJECT:
Replace inadequate, under-sized hangars in support of HMX-1 missions.
(Current Mission)

REQUIREMENT:
Adequate Level 3 secure hangar and support space is required for the aircraft assigned to the Executive Fleet of HMX-1. HMX-1 has a unique requirement to park all aircraft inside the hangar for security and maintenance reasons.

Studies are currently underway to compare VXX requirements for hangar space, administrative facilities, and air space with available assets at Department of Defense facilities in the National Capital Region. The results of these studies will determine the most cost effective means to provide facility support for the VXX program.

CURRENT SITUATION:
Existing hangars, at MCAF Quantico, which support the executive fleet, were built in 1935, with an inter-connected addition to the original hangars in 1975. Less than half of the assigned VH-3 and VH-60 aircraft can be parked within these hangars with adequate fire lanes and safety clearances. When moving aircraft inside the hangar, maintenance personnel must maneuver rotor blades by hand while the aircraft is slowly towed in order to avoid damage by striking other aircraft. Only Hangar 2102A has sufficient overhead clearance to conduct most "in-hangar" hoist operations. Electrical systems do not have sufficient capacity to meet current user demand. Fire suppression systems are inadequate to protect critical national assets. The buildings' proximity to the runway violates the 7:1 transitional surface criteria. The aircraft parking apron in front of the building is limited to only 3 or 4 aircraft.

Aircraft maintenance training and secure supply facilities are sited very close to the runway and violate the Primary Surface. The current Executive Fleet operations at MCAF Quantico currently operate under numerous airfield safety violations to primary, transitional, and clear zone surfaces.

IMPACT IF NOT PROVIDED:
HMX-1 would continue to violate airfield safety requirements. HMX-1 will not have the capability of properly sheltering all of their aircraft. Overall, deferral of this project would critically interfere with the HMX-1 mission of Presidential Support, Marine Corps Combat Development Command (MCCDC) training airlift support, and Marine operational test and evaluation of new aircraft capabilities.

12. Supplemental Data:

A. Estimated Design Data:

1.Component	FY 2005 MILITARY CONSTRUCTION PROGRAM	2.Date
NAVY		18 FEB 2004

3. Installation and Location/UIC: NC1002	4. Project Title
VARIOUS LOCATIONS WORLDWIDE	PRESIDENTIAL AIRCRAFT MAINT HANGAR (WHITE SIDE)

5.Program Element	6.Category Code	7. Project Number	8. Project Cost ($000)
0206496M	21105	P448	18,560

1. Status:		
(A) Date Design Start		122003
(B) Date Design 35% Complete		062004
(C) Date Design Completed		082005
(D) Percent Completed as of	SEPTEMBER 2003	0%
(E) Percent Completed as of	JANUARY 2004	2%
(F) Type of Design Contract		Design Build
(G) Parametric Estimate used to develop cost		Yes
(H) Energy study/Life cycle analysis performed		Yes
2. Basis:		
(A) Standard or Definitive Design:		No
(B) Where Design Was Most Recently Used:		
3. Total Cost (C) = (A) + (B) = (D) + (E) :		$2,080
(A) Production of Plans and Specifications		$1,560
(B) All other Design Costs		$520
(C) Total		$2,080
(D) Contract		$520
(E) In-House		$1,560
4. Contract Award		022005
5. Construction Start		082005
6. Construction Complete		022007

B. Equipment associated with this project which will be provided from other appropriations:
NONE

JOINT USE CERTIFICATION:

The Director Land Use and Military Construction Branch, Installations and Logistics Department, Headquarters Marine Corps certifies that this project has been considered for joint use potential. Unilateral Construction is recommended. Mission requirements, operational considerations, and location are incompatible with use by other components.

Activity POC: Jim Woods Phone No: 252-466-4769