

1. Component ARMY	FY 2011 MILITARY CONSTRUCTION PROJECT DATA			2. DATE Current Date	
3. INSTALLATION AND LOCATION TBD			4. PROJECT TITLE Shadow UAS Range Training Facility		
5. PROGRAM ELEMENT	6. CATEGORY CODE 44220	7. PROJECT NUMBER TBD	8. PROJECT COST (\$000) 650.0		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
PRIMARY FACILITY					464.4
Aircraft Shelter (66'x50')		SF	3,300	90.00	(297.0)
Apron		SY	57	27.80	(1.6)
Towway		SY	100	28.45	(2.8)
Runway		SY	5,556	28.45	(158.1)
Pavement Marking		LF	3,850	1.27	(4.9)
SUPPORTING FACILITIES					73.5
Drainage culvert 24 inch CMP		LF	30	56.60	(1.7)
Gravel Parking lot (8 inches base on subgrade prep)		SY	1267	15.56	(19.7)
Site improvements (grading)		CY	9400	4.08	(38.4)
Top soil		CY	1630	6.12	(10.0)
Seeding		AC	3	1224.00	(3.7)
ESTIMATED CONTRACT COST					537.9
CONTINGENCY (5.00%)					26.9
SUBTOTAL					564.8
SUPERVISION, INSPECTION & OVERHEAD (5.70%)					32.2
DESIGN BID BUILD – DESIGN COST (10.00%)					56.5
CATEGORY E EQUIPMENT					0
TOTAL REQUESTED					653.5
TOTAL REQUESTED (ROUNDED)					655.0
10. Description of Proposed Construction					
<p>Construct a Shadow Unmanned Aircraft Systems (UAS) range training facility including asphalt runway and towway, aircraft temporary storage shelter, concrete apron, and unpaved vehicle parking area. The range training facility will support UAS platoon organizational training and individual aircrew proficiency. The project includes an asphalt paved and marked UAS runway, overruns and tow way connecting the runway to the aircraft shelter. The aircraft shelter is an insulated pre-engineered metal building capable of temporary storage of 3 Shadow aircraft with concrete slab designed for Humvee access through a 32 foot wide by 12 foot clear height overhead coiling door. The aircraft shelter will include personnel doors, skylights, pipe bollards at the overhead door, and wire mesh cage storage rooms for temporary use by using organizations. Interior lighting, interior electrical distribution including 110V/220V outlets, interior emergency lighting, ventilation, single grounding points at each airframe location, and lightning protection will also be provided. Lighting, ventilation and power will be provided by electrical generator provided by the using unit connected to the building by manual transfer switch. Exterior building mounted lighting will be solar powered. Water, sewer, fire detection and alarm systems, and communications will not be provided. Heating and air conditioning will not normally be provided. Heating or air conditioning may be provided at locations where extreme heat or cold could be life threatening. If heating or cooling is necessary at a given location, the costs for the systems must be added to the building costs. Handicapped accessibility, antiterrorism-force protection, and sustainable design measures will not be provided due to use of the facility as a range training facility not permanently occupied.</p>					