

1. COMPONENT ARNG		FY 2018 MILITARY CONSTRUCTION PROJECT DATA		2. DATE 30 Jan 17	
3. INSTALLATION AND LOCATION CAMP DODGE, JOHNSTON, IA			4. PROJECT TITLE Vehicle Maintenance Instructional Building Add (STC)		
5. PROGRAM ELEMENT 0505896A		6. CATEGORY CODE 17133		7. PROJECT NUMBER 85426 190130	
8. PROJECT COST (\$000) 8,500					
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
Primary Facility Totals:			-	-	6420
17133 Maintenance Shop Addition		SF	21,777	273.21	(5950)
82187 Heating Plant, Geothermal		EA	1	268,260.00	(268)
81122 Electric Power, Photovoltaic		EA	1	81,600.00	(82)
00005 Sustainability / Energy Measures		LS	-	-	(120)
Supporting Facility Totals:			-	-	1268
85225 Rigid Concrete Paving		SY	7,386	70.00	(517)
81230 Exterior Security Lighting		LS	-	-	(75)
84330 Exterior Fire Protection		LS	-	-	(46)
82410 Utilities: Gas		LS	-	-	(75)
81242 Utilities: Electric		LS	-	-	(75)
84210 Utilities: Water		LS	-	-	(75)
83210 Utilities: Waste Water/Sewer		LS	-	-	(75)
87110 Stormwater Drainage		LS	-	-	(122)
13260 Information Systems		LS	-	-	(6)
93220 Site Improvement		LS	-	-	(184)
14915 Anti-Terrorism/Force Protection		LS	-	-	(18)
TOTAL CONSTRUCTION COST			-	-	7688
Contingencies (5.0%)			-	-	(384)
Supervision, Inspection and Overhead (4.5%)			-	-	(363)
Commissioning (0.6%)			-	-	(39)
TOTAL PROJECT COST			-	-	8474
TOTAL PROJECT COST (ROUNDED)					8,500
Equipment Funded Other Appr (Non-Add)					(427)
10. DESCRIPTION OF PROPOSED CONSTRUCTION					
A specially designed Vehicle Maintenance Instructional Building Addition of permanent construction. The Vehicle Maintenance Instructional Building Addition includes the following items that are integral to the facility: He					

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<p>ating Plant, Geothermal; Electric Power, Photovoltaic. Comprehensive interior design services are requested. This facility will be designed to meet Industry Standards as well as all local, State, and Federal building codes and as per Public Law 90-480. Construction will include all utility services, information systems, fire detection and alarm systems, roads, walks, curbs, gutters, storm drainage, parking areas and site improvements. Facilities will be designed to a minimum life of 50 years in accordance with DoD's Unified Facilities Code (UFC 1-200-02) including energy efficiencies, building envelope and integrated building systems performance as per ASA(IE&E) Sustainable Design and Development Policy Update Dec 2013. Access for individuals with disabilities will be provided. Antiterrorism measures in accordance with the DoD Minimum Antiterrorism for building standards will be provided. This project will comply with the Army 1 SQFT for 1 SQFT disposal policy through the disposal of 22,409 SQFT.</p> <p>MISSION: Current A/C TONNAGE: 0</p>															
<table border="0"> <tr> <td>11. REQUIREMENT:</td> <td>21,777 SF</td> <td>Adequate:</td> <td>35,876 SF</td> <td>Substandard:</td> <td>0 SF</td> </tr> <tr> <td></td> <td>2,023 m2</td> <td></td> <td>3,333 m2</td> <td></td> <td>0 m2</td> </tr> </table>				11. REQUIREMENT:	21,777 SF	Adequate:	35,876 SF	Substandard:	0 SF		2,023 m2		3,333 m2		0 m2
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<p>1. PROJECT: To construct a 21,777 SQFT Vehicle Maintenance Instructional Building addition that provides space for hands-on training of large item operation and maintenance. The facility has equipment similar to a maintenance bay in a repair facility and consists of structural bays, bay doors, workstations, maintenance pits, bridge cranes, environmental controls, and tools and parts storage. requirements for the IAARNG. This project is a national level asset at the ARNG Sustainment Training Center. This facility will be built on Federal Land. (Current Mission).</p> <p>2. REQUIREMENT: The Sustainment Training Center (STC) requires approximately 126,500 +/- square feet of maintenance training facility to adequately train (Field) Support Maintenance Companies that are located in the Sustainment Brigade and space to train NGB's BFV, Abrams, RTCH, and M88A2 Maintenance Technician Training program. The SMC's are new structure that previously the STC has not trained on a regular re-occurring basis but has now been mission to train, IAW the ARFORGEN Training Model and the maintenance training strategy that NGB implemented. This new construction project is an Exception To Criteria largely because the STC is one of a kind facility that teaches maintenance training, and is not illustrated in NG Pam 415-12 as authorized. The existing Field Maintenance Shop at the NMTC can no longer accommodate the number of units which require maintenance training due to increased unit throughout. The Iowa National Guard has studied several different alternatives to increase the capacity of the existing facility, including additions to the current facilities. However, the required facility must be s</p>															

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<p>pecialized and include a large number of work bays to be operated simultaneously. No other facilities nearby meet the requirements nor could be modified in a cost effective manner to meet the maintenance training requirements. The Joint Forces Reserve Component Facilities Board, upon studying all alternative, recommended unilateral construction of this new facility.</p> <p>3. CURRENT SITUATION: This project is critical to the state of Iowa due to the current situation of the new ARNG Training Strategy requires the Sustainment Training Center to train SMC Field Maintenance Companies as well as support the ARL-M Bradley, Abrams, M-88 Vehicle Recovery and RTCH Technician Training Courses. At the present time there are 28 SMCs in the ARNG Force Structure. The STC will train the units that are in the National Guard and coordinate with the USAR to train the 16 that are in USAR structure.</p> <p>The State of Iowa has conducted a preliminary design on this project and is currently at 10 % Design.</p> <p>The site for this project is in the possession of the state of Iowa.</p> <p>Currently, the state of Iowa has begun the environmental assessment on this project.</p> <p>The facility where the current operations are being conducted was constructed in 1989.</p> <table border="1"> <thead> <tr> <th>Site Code</th> <th>Site UID</th> <th>Cat Code</th> <th>FACNO</th> <th>ISR-I Year</th> <th>F Rating</th> <th>Q Rating</th> <th>C Rating</th> <th>Local Name</th> </tr> </thead> <tbody> <tr> <td>19901</td> <td>4246</td> <td>17133</td> <td>S0100</td> <td>2017</td> <td>F3</td> <td>Q3</td> <td>C3</td> <td>STC</td> </tr> </tbody> </table> <p>Listed below is a training table that depicts the frequency that SMC Maintenance units will train at the STC IAW the ARFORGEN five year training model. The table indicates ARNG structure and included is notional USAR structure. There may be instances where two SMC maintenance companies are training simultaneously in the training center. Each ARNG SMC unit will come and train at the NMTC twice during either a 5 or 6 year ARFORGEN model.</p> <table border="1"> <thead> <tr> <th>Unit</th> <th>YEAR 1</th> <th>YEAR 2</th> <th>YEAR 3</th> <th>YEAR 4</th> <th>YEAR 5</th> </tr> </thead> <tbody> <tr> <td>SMC Maint Co</td> <td>110225</td> <td>110225</td> <td>110225</td> <td>110225</td> <td>110225</td> </tr> <tr> <td>M-1 Abrams Tech CR</td> <td>11012</td> <td>11012</td> <td>11012</td> <td>11012</td> <td>11012</td> </tr> <tr> <td>M2/3 BFV Tech CR</td> <td>11016</td> <td>11016</td> <td>11016</td> <td>11016</td> <td>11016</td> </tr> <tr> <td>M88A2</td> <td>408</td> <td>408</td> <td>408</td> <td>408</td> <td>408</td> </tr> <tr> <td>RTCH</td> <td>408</td> <td>408</td> <td>408</td> <td>408</td> <td>408</td> </tr> </tbody> </table>			Site Code	Site UID	Cat Code	FACNO	ISR-I Year	F Rating	Q Rating	C Rating	Local Name	19901	4246	17133	S0100	2017	F3	Q3	C3	STC	Unit	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	SMC Maint Co	110225	110225	110225	110225	110225	M-1 Abrams Tech CR	11012	11012	11012	11012	11012	M2/3 BFV Tech CR	11016	11016	11016	11016	11016	M88A2	408	408	408	408	408	RTCH	408	408	408	408	408
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<p>4. IMPACT IF NOT PROVIDED: If this project is not approved, the present facilities lack of adequate maintenance bay training space will reduce maintenance efficiency, training and mobilization standards will continue to decline and an overall general decline in the readiness levels of Support Maintenance Companies will occur directly related to a lack of individual and collective training practice. The present facilities deficiencies will continue to negatively impact troop morale. The lack of proper and adequate maintenance bay training area, classrooms instruction areas, storage and administrative areas will continue to impair the attainment of required mobilization readiness levels. The quality and quantity of maintenance training will diminish due to insufficient training and storage areas to perform logistical and maintenance training. Soldier safety is also a huge concern in the existing locations. Larger vehicles and number of soldiers being trained encroach on egress space endangering the soldiers welfare. Many training situations require a large number of soldiers gathered around a particular piece of equipment and the sometimes the bays are not large enough. With the diminished quality and quantity of maintenance and logistical training, the operational readiness of the ARNG Support Maintenance Companies will deteriorate.</p> <p>5. ADDITIONAL: Sustainable principles, to include life cycle cost effective practices, will be integrated into the design, development and construction of the project and will follow the guidance detailed in the Army Sustainable Design and Development Policy complying with applicable laws and executive orders.</p> <p>6. PHYSICAL SECURITY: This project has been coordinated with the installation physical security plan, and all physical security measures are included.</p> <p>7. ANTITERRORISM/FORCE PROTECTION: This project has been coordinated with the installation antiterrorism plan. Risk and threat analyses have been performed in accordance with DA Pam 190-51 and TM 5-853-1, respectively. Protective measures required by regulation and the minimum standards as required by UFC 4-010-01 (Department of Defense Minimum Antiterrorism Standards for Buildings) are needed. These requirements are included in the description of construction and cost estimate.</p> <p>8. ECONOMIC ANALYSIS: Alternative methods of meeting this requirement have been explored during project development. This project is the only feasible option</p>		

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<p>to meet the requirement.</p> <p>9. JOINT USE CERTIFICATION: The Deputy Assistant Secretary of the Army (Installations and Housing) certifies that this project has been considered for joint use potential. This facility will be available for use by other components.</p>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> _____ Date </div> <div style="width: 55%;"> _____ Timothy E. Orr Major General The Adjutant General </div> </div>		
AT/FP POC: Mr. Doug Rossell/(515) 252-4183 CFMO: COL Scott Ayres/(515) 252-4316		
12. SUPPLEMENTAL DATA <p>a. Estimated design data:</p> <p>(1) Status:</p> <p>(a) Date Design Started.....<u>Jun/2017</u></p> <p>(b) Percent Complete as of January 2017.....<u>0%</u></p> <p>(c) Date Design 35% Complete.....<u>Sep/2017</u></p> <p>(d) Date Design Complete.....<u>Mar/2018</u></p> <p>(e) Parametric Cost Estimating Used to Develop Cost.....<u>No</u></p> <p>(f) Type of Design Contract.....<u>Design - Bid - Build</u></p> <p>(g) An energy study and life cycle cost analysis will be documented during final design</p> <p>(2) Basis:</p> <p>(a) Standard or Definitive Design.....<u>No</u></p> <p>(b) Where Design Was Most Recently Used.....<u>N/A</u></p> <p>(3) Total Cost (c)=(a)+(b) or (d)+(e):.....(\$000)</p> <p>(a) Production of Plans and Specifications.....<u>461</u></p> <p>(b) All Other Design Costs.....<u>261</u></p> <p>(c) Total.....<u>722</u></p> <p>(d) Contract.....<u>722</u></p> <p>(e) In-house.....<u>0</u></p> <p>(4) Construction Award.....<u>Jul/2018</u></p> <p>(5) Construction Start.....<u>Aug/2018</u></p> <p>(6) Construction Completion.....<u>Jul/2019</u></p>		

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12. SUPPLEMENTAL DATA (CONT)			
b. Equipment associated with this project which will be provided from other appropriations:			
<u>Equipment Nomenclature</u>	<u>Procuring Appropriation</u>	<u>Fiscal Year Appropriated or Requested</u>	<u>Cost (\$000)</u>
ISC Equipment	OPA	2019	33
ISCE Proponent	OMNG	2019	88
F F & E	OMNG	2019	306
		Total:	427
Point of Contact: CFMO IA, 515-252-4767			

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<p style="text-align: center;">Detailed Requirement Statements</p> <p>1. GENERAL: This project is programmed not to provide the full requirements of scope and the State of Iowa plans to build the remaining scope requirements at a later date.</p> <p>The Sustainment Training Center (STC) located in Johnston, Iowa is an NGB approved school and the only one of its kind. The school was established to train sustainment and field maintenance companies in individual MOS skills and collective leadership skills. The STC's mission is to provide a quality training environment which maintenance companies Army-Wide can use to conduct wartime mission lanes training IAW Training and Doctrine Command (TRADOC) standards for conduct of training.</p> <p>In 2015, there will be 73 field maintenance units (13,700 maintenance Soldiers) which require intensive maintenance training on a 5-year ARFORGEN rotation. The capacity of the STC is such that they cannot currently accommodate all of the units. Furthermore, the Army National Guard is going through maintenance transformation which will realign these units. The State estimates that the STC could accommodate the increased capacity and execute maintenance transformation through constructing a 118,000 SF (approximate) maintenance training facility on the Camp Dodge Training Site in the same vicinity as the current STC campus. The proposed project will be constructed on federal land.</p> <p>2. ANALYSIS OF DEFICIENCY: -Sloped so water runs into building under doors</p> <ul style="list-style-type: none"> -Several roof leaks in North bay, South bays, coming down insulation -Exterior doors leak air and water, some condensation roof leaks (Fotts room) -HVAC - outdated and needs to be replaced -Not enough lab space, classroom space, supply storage space -Classrooms can't handle proper AV equipment -Cannot lock up storage items -Through the wall window AC unit is 5ft-6 inches off floor - people run into it -Downspout seams need resealed - leaking to ground below -Both sides of the building have missing curved bottom pieces to downspouts -Overall site drainage is poor, downspouts do not carry water away from the building (all the water sets at the base of the building creating ice in winter) - East side of building has concrete that is slanting towards the building & downspouts drain directly there, cracking around the base of concrete - at the bollards, and the sidewalk areas - this area also see 		

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<p style="text-align: center;">Detailed Requirement Statements</p> <p>ms to heave in winter, creating no slope away from the building</p> <ul style="list-style-type: none"> -Overhead doors need new seals - sides, bottom, and top -Driveways and roadways are beginning to crack severely (rear drainage path is worst on the East side of S-01) - cracking includes in front of the bay doors -Bollards need repainted - some have very cracked concrete at the bases -East side exterior doorways are beginning to rust at the base due to pooling water at the base of the building exterior -East side concrete seals (rubberized caulking) up to the building needs redone - concrete has shifted and moved causing large gaps -Doorway 10 - NE side of building needs new seals at the base -Driveway/parking outside of new classroom (SPP20) has nowhere to drain - debris ends up in parking spaces <p>Interior Site:</p> <ul style="list-style-type: none"> -Main floor needs new ceiling tiles throughout - old tiles are very warped, cracked up, and some have stains -Main floor Men's restroom has stained ceiling tile - leak? -Main floor Men's restroom has walk seam by the showers that needs recaulked -Janitorial room 109-1 has water leaking under the water heater -Exterior walk doors in bays need new seals at the base - 2 inches of daylight getting in on the South bays -Interior insulation in bays is wet - there is water dripping into the insulation all the way down that we could reach up and feel the insulation was wet - this is coming from the roof line and any exterior vented areas -Overhead doors are getting wet on the inside - from 2 things - from the water running down the insulation into them, and from the small windows in the doors lacking proper seals and leaking water into and below the doors -Tool Room 124-1 has wet ceiling tiles -HVAC venting missing from room 125-1 -Washbay has a vent that is completely open - needs to be closed up -Washbay does not have GFI outlets - outlets are right above and near water sources -Tool Room 118-1 has wet ceiling tiles throughout -2 large round lights are out in the north bays -Bays needs lighting upgrades - old, dim lighting throughout <p>Upstairs Interior:</p> <ul style="list-style-type: none"> -2nd office on North wall has 2 small rust spots on the ceiling - roof moisture? 		

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Detailed Requirement Statements

-Women's restroom has water that comes in the ceiling tiles by the light fixture/HVAC Vent - a rust spot there at the tile spacing

-Western windows have interior seals that need replaced/recaulked - at Calybrisys break area and Men's restroom - also beginning to rust on the interior from moisture

-Men's restroom has a damaged window screen

3. ANALYSIS OF CRITERIA AND EXCEPTIONS FOR NEW CONSTRUCTION: The size and capacity is in accordance with NG Pam 415-12, dated 25 January 2015. The workload has been adequately defined. A non-standard design is being used for this project.

4. STATEMENT OF PROGRAM RELATED EQUIPMENT: FF&E, and ISC (Data & Telcom) will be requested in FY 2019.

5. DISPOSITION OF PRESENT ACCOMMODATIONS: This project is in compliance with the Stewart B. McKinney Homeless Assistance Act and does not include the disposal of a building eligible for or on the National Register of Historic Places.

Site	Cat	Code	FACNO	Code	Title	SF	Disposition	Cost (\$000)
19A40	ARMRY	17180	ARNG	ARMORY		21192	Transferred to City	0
18A85	WASHC	14163	CENT	WASH	BUILDING	1217	Sold	0

6. CONTRIBUTIONS TO READINESS: a. How will readiness be enhanced by construction of this project?

Lack of proper and adequate maintenance bay training area, classroom instructional areas, storage and administrative areas will continue to impair the attainment of required mobilization readiness levels.

b. How will readiness be impaired by deferring this project to a future program year?

The quality and quantity of maintenance training will diminish due to insufficient training and storage areas. Soldier Safety is a huge concern in the existing location. Larger vehicles and increased quantities of Soldier trainees encroaches on egress space. With the diminished quality and quantity of maintenance and logistical training, the operational readiness of the trained Support Maintenance Companies will deteriorate and the throughput of repaired equipment will decline.

c. Why does this project contribute more than another project?

7. CLEAN AIR ACT: Permits and/or other procedural requirements mandated b

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<p>y state, interstate, and local air pollution control agencies have been compiled for this project. Copies of all federally required permits and/or registration applications and responses have been forwarded to the U.S. Army center for health promotion and preventive medicine, attn: MCHB-TS-EAP, Aberdeen Proving Ground, MD 21010-5422.</p> <p>8. TELECOMMUNICATIONS: All telecommunications have been planned as per ISCE program/documentation and have been uploaded to Tab F of the DD1391 Processor in PAX.</p> <p>9. ECONOMIC ANALYSIS: Documentation for an Economic Analysis conducted using ECONPAC software has been uploaded into TAB-D of the DD1390/91 Processor in PAX.</p> <p>10. ANTITERRORISM/FORCE PROTECTION: a) A risk analysis for this project has been conducted on 22 Aug 2016 and coordinated with the installation AT/FP plan. Risk and threat analyses have been performed in accordance with DA Pam 190-51 and TM 5-853-1, respectively. b) A threat analysis for this project has been conducted on 22 aug 2016 and coordinated with the installation physical security plan. c) The building design is to comply with standard design requirements per UFC 4-010-01 for Antiterrorism/Force Protection measures. All required physical security and antiterrorism/force protection measures are included.</p> <p>d) This project is to be constructed within a Controlled Perimeter. e) This project meets conventional standoff as per UFC 4-010-01. f) This project will be less than three stories of construction.</p>		

1. COMPONENT ARNG	FY 2018 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 30 Jan 17					
3. INSTALLATION AND LOCATION CAMP DODGE, JOHNSTON, IA		4. AREA CONSTR COST INDEX 1.01					
5. FREQUENCY AND TYPE UTILIZATION Support logistical and operational activities for training 254 days/year. Reservists 1 weekends/month							
6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS ARNG, Ankeny, IA, 8 MI, Aviation Facility, 2380 SF, 2003 ANG, Des Moines, IA, 12 MI, Aviation Facility, 500000 SF, 1972 ARNG, Perry, IA, 21 MI, Readiness Center, 16685 SF, 1957							
7. PROJECTS REQUESTED IN THIS PROGRAM							
CATEGORY CODE	PROJECT TITLE	SCOPE	COST (\$000)	(DESIGN STATUS)			
				START	COMPLETE		
17133	Vehicle Maintenance	21,777 SF	8,500	01/06/17	01/03/18		
	Instructional Building	2,023 m2					
	Add (STC)						
8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION Facilities identified in item 7 have been examined by Joint Service Reserve Component Facility Board (JSRCFB) for possible joint use/expansion. The Board recommends unilateral construction.							
				26 Jul	2016		
				(Date)			
9. LAND ACQUISITION REQUIRED None							
				0			
				(Number of Acres)			
10. PROJECTS PLANNED IN NEXT FOUR YEARS							
CATEGORY CODE	PROJECT TITLE	SCOPE	COST (\$000)				
None.							
SRM BACKLOG (\$000): \$1379							
A SITE SURVEY HAS BEEN COMPLETED AND THE SITE IS SUITABLE FOR CONSTRUCTION OF THE PROPOSED PROJECT AT THE ESTIMATED COST INDICATED.							
11. PERSONNEL STRENGTH AS OF: 22 Feb 2017							
	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	28	9	19	0	35	13	22
ACTUAL	60	13	15	32	30	11	19
Percentage: 86%							

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12. RESERVE UNIT DATA																											
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UIC	UNIT DESIGNATION	TPSN	MTOE/TDA					STRENGTH																			
				AUTHORIZED	ACTUAL																						
W7AAAA	(ACT ARNG SUSTAINMENT)		NGW7AAAA	35	30																						
Totals				35	30																						
13. MAJOR EQUIPMENT AND AIRCRAFT																											
<table border="1"> <thead> <tr> <th>TYPE</th> <th>Supported by Shop</th> <th>Assigned to Shop</th> </tr> </thead> <tbody> <tr> <td>Wheeled Vehicles</td> <td>59</td> <td>59</td> </tr> <tr> <td>Trailers</td> <td>73</td> <td>73</td> </tr> <tr> <td>Tracked Vehicles</td> <td>27</td> <td>27</td> </tr> <tr> <td>Equipment > 30 FT (includes HEMTT PLS Trailers)</td> <td>20</td> <td>20</td> </tr> <tr> <td>Fuel Truck</td> <td>0</td> <td>0</td> </tr> <tr> <td>HET</td> <td>0</td> <td>0</td> </tr> <tr> <td>Totals</td> <td>179</td> <td>179</td> </tr> </tbody> </table>				TYPE	Supported by Shop	Assigned to Shop	Wheeled Vehicles	59	59	Trailers	73	73	Tracked Vehicles	27	27	Equipment > 30 FT (includes HEMTT PLS Trailers)	20	20	Fuel Truck	0	0	HET	0	0	Totals	179	179
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14. OUTSTANDING POLLUTION AND SAFETY DEFICIENCIES																											
<table border="1"> <thead> <tr> <th></th> <th>(\$000)</th> </tr> </thead> <tbody> <tr> <td>Air Pollution</td> <td>0</td> </tr> <tr> <td>Water Pollution</td> <td>0</td> </tr> <tr> <td>Safety and Occupational Health</td> <td>0</td> </tr> </tbody> </table>					(\$000)	Air Pollution	0	Water Pollution	0	Safety and Occupational Health	0																
	(\$000)																										
Air Pollution	0																										
Water Pollution	0																										
Safety and Occupational Health	0																										

Project Number : 190130
Project Title : Vehicle Maintenance Instructional Building Add (STC)
FACID : 19901

Project Validation

The Reserve manpower potential to meet and maintain authorized strengths of all Reserve units in the area in which this facility is to be located has been reviewed in accordance with DOD Directive 1225.7. It has been determined, in coordination with all other Services having Reserve units in the area, that the number of units of the Reserve components of the Armed Forces presently located in the area and those which have been allocated to the area for future activation, is not and will not be larger than the number that reasonably can be expected to be maintained at authorized strength.

The proposed project is in compliance with the following acts, executive orders, laws, and rules:

NATIONAL ENVIRONMENTAL POLICY ACT: Project has been analyzed for potential environmental impact in accordance with Environmental Analysis of Army Actions (32 CFR Part 651).

SUSTAINABILITY: The design and execution of this project, where appropriate, will comply with Executive Orders (EOs) 13423 and 13514 with respect to reduction/elimination of hazardous materials and incorporation of sustainability and green building principles.

COASTAL ZONE PLAN: In accordance with the provisions of Section 102(2)(c) of the National Environmental Policy Act of 1969, the project has been reviewed, and it is determined to be in compliance with the State's Coastal Zone Plan.

ENDANGERED SPECIES ACT: Project must include a review of threatened and endangered species in accordance with Section 7 of the Endangered Species Act (ESA), 50 CFR 402.

FALLOUT PROTECTION: In accordance with Section 601 of Public Law 89-568, as amended, the design of this project has been prepared to maximize fallout protection. Fallout shelters have been excluded from any structure only for the following reason: (1) Adequate protection areas are available to fulfill a station's requirements; (2) The presence of personnel during a period of fallout radiation would impair facility operations; or (3) Economic limitations necessitated either deferral or accomplishment by some other means.

FLOOD HAZARD: Project has been evaluated for flood hazards in compliance with Executive Order 11988, and the facility is not sited in an area known to be subjected to flooding.

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

VENDING FACILITIES FOR THE BLIND: Project has been evaluated for the provision of vending facilities to be operated by blind persons in compliance with DHEW Rule, 45 CFR-1369, and the State Licensing Board has not sanctioned operation of a blind vending concession at the proposed location.

NATIONAL HISTORIC PRESERVATION ACT OF 1966: This action has the potential to cause adverse effects to historic properties and tribal resources. The State ARNG will consult with the State Historic Preservation Officer (SHPO) and North American Tribes under NHPA prior to project initiation to determine the presence/absence of historic properties that might be adversely affected.

ENVIRONMENTAL CONDITION OF PROPERTY (ECOP): ECOP analysis is required for this project per the requirements of AR 200-1 (Chapter 15-6) and applicable ASTM standards.

AT/FP POC: Mr. Doug Rossell
AT/FP Phone: 515-252-4183-null

Timothy E. Orr
Major General
The Adjutant General
Date: _____

Basic Project Data - Actual/ English

Project Number: 190130
Project Title: 190130
Date: Mar 6, 2017
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Project Summary Information

Project Number	190130	Sponsoring Agency	IA
Project Title	Vehicle Maintenance Instructional Building Add (STC)		
Unit of Measure	English	State Facility Review Board:	
Preparation Date	30-JAN-17	Recommendation	New Construction
Last Revision Date	06-MAR-17	Date of Recommendation	26-JUL-16

Site Summary Information

Site Identifier	19901
Site Name	CAMP DODGE JMTC
Address	
Street	7105 NW 70TH AVE JOHNSTON, IOW
City and Zip	CAMP DODGE, JOHNSTON, 50131-1824

Pattern of Facility Usage

Support logistical and operational activities for training 254 days/year.

Reservist Weekends/Month	1	Winter Design Temperature	-20
		Average Annual Snowfall	33

Projects Requested In this Program

Cat Code	Project Title	Scope (SF)	Cost (\$000)	Design Start	Design End	
17133	Vehicle Maintenance Instructional Building Add (STC)	21777	8500	01-JUN-17	01-MAR-18	2017

Additional Projects Planned in Next Four Years

PROJNO	Cat Code	Project Title	Scope (SF)	Cost (\$000)	FY
--------	----------	---------------	------------	--------------	----

No future projects identified.

Nearest Five Military Installations

Component	DoD Activity	Location	Distance			
ARNG	Ankeny, IA	8	Aviation Facility	2380	SF	2003
ANG	Des Moines, IA	12	Aviation Facility	500000	SF	1972
ARNG	Perry, IA	21	Readiness Center	16685	SF	1957

Unit Summary Information

UIC	Reserve Strength			Full-Time Strength		
	Officers	WOF	Enlisted	Officers	Enlisted	Civ
W7AAAA	4	9	22	9	19	0
Totals	4	9	22	9	19	0

Real Property Configuration

Category	Description	Existing SF	Requested SF
171E	ARNG - Educational Facility	155177	0
171R	ARNG - Readiness Center	1074272	0
171T	ARNG - Training Center Facilities	569677	0
178	ARNG - Range Facilities	25321	0
211A	ARNG - Aviation Facility	0	0
214L	ARNG - Surface Equipment Maintenance Facility	102977	28582
442	ARNG - Warehouse	679322	0

Basic Project Data - Actual/ English

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INFO	ARNG - Information Systems Worksheet	0	3041
OTH	Other Building	599454.02	0
PFO	ARNG - USEFO	13725	0

Basic Project Data - Actual/ English

Project Number: 190130
Project Title: 190130
Date: Mar 6, 2017
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Basic Information Report (Units)

General Information

Field	Value	Field	Value
UIC	W7AAAA	Last Updated	24-FEB-17
Unit Name	(ACT ARNG SUSTAINMENT)		
Parent UIC	W7AAAA	MTOE/TDA Markup Status	DATA IN
Unit Type	TDA SCHOOL/TRNG	Source	ASIP
SRC		Status	M
DRC	ARNG		
Field Agency	IA	Unit Level	BN
FACID	19901	Facility City, State	CAMP DODGE, JOHNSTON, IA
Strength Count Ind	C	Strength Count Ind (Project)	

Related Units

UIC	Unit Name	Type
-----	-----------	------

No maintenance shop units related to this unit.

Documentation Info

Configuration

Field	Value
Drill Weekend	1
Drill Weekend (Project)	
Auth Level of Org (AOL)	0

Force Program Action

Field	Value
Effective Date	01-SEP-18
Action Code	U

Mission Space Allowances

Field	Value	Field	Value
Unit Supply	(ARNG & USAR)	Public Affairs Office	(ARNG) 0
COMSEC	(USAR) 0	Soil Testing Lab	(USAR) 0
NG Weather Flight	(ARNG) 0	Photo Lab	(USAR) 0
Individual Weapons	(USAR) 1	SCIF	(USAR)
Maint Office	(ARNG & USAR)	Medical Section	(ARNG & USAR)
Band Room	(ARNG & USAR)	Army Advisors Office (ARNG)	0
Weapons Simulator Rm	(USAR) 0	Personnel Services CO/SCIN (ARNG)	0
Physical Exam Wing	(ARNG & USAR)	State HQ	(ARNG) 0
Physical Exams Per Yr. (ARNG)		State HQ Military Record Archive (ARNG)	
Flight Eye Exam Room (ARNG)	0		

Strength Info

Reserve Personnel

Type	Personnel	Officers	WOF	Enlisted	Total
Required	4	9		22	35
Authorized	4	9		22	35
Assigned	2	9		19	30
TAPDB-R	3	8		18	29

ASIP

FY-Type	Officers	WOF	Enlisted	Total	DA Civ	Oth Civ
2017-DWS			22	35	0	0

Basic Project Data - Actual/ English

Project Number: 190130
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2017-DWS	4	9	22	35	0	0
2017-FTS	0	0	0	0	5	0
2018-DWS	4	9	22	35	0	0
2018-FTS	0	0	0	0	5	0
2019-DWS	4	9	22	35	0	0
2019-FTS	0	0	0	0	5	0
2020-DWS	4	9	22	35	0	0
2020-FTS	0	0	0	0	5	0
2021-DWS	4	9	22	35	0	0
2021-FTS	0	0	0	0	5	0
2022-DWS	4	9	22	35	0	0
2022-FTS	0	0	0	0	5	0
2023-DWS	4	9	22	35	0	0
2023-FTS	0	0	0	0	5	0

Full-Time Personnel

Type Personnel	Officers	Enlisted	Civilian
Authorized	9	19	0
Assigned	13	15	32

Special Space Requirements

Exclusive Space

Field	Value	Field	Value
General Officers *	0	LTC *	0
Principal Staff *	2	MAJ or Below *	0
Colonel *	0		

Common-Use Space

Reserve Personnel

Field	Value
Administrative *	2
Cooks	0
Auto/Eng Mechanics	0
Maint Admin Personnel	1
Aviation Crew	0
Draftpersons *	0

Full-Time Personnel

Field	Value
Administrative *	17
Supply *	0
Auto/Eng Mechanics	6
Maint Admin Personnel *	5
Aviation Crew	0
Total Admin Pstn Count *	27

Equipment Info

Surface Equipment

Type Equipment	Authorized	Actual
Wheeled	59	59
Tracked	27	27
Trailers	73	73
Equipment 30 FT	20	20
Fuel Truck	0	0
HET	0	0

Special Equipment

Basic Project Data - Actual/ English

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Field	Value	Field	Value
Combat Vehicles (incl M2/M3s)	19	Missile Systems	1
M2/M3 Bradley	0	M1 Battle Tank Maint Req	1

Non-Vehicle Storage Metric

Field	Value
Equipment Cubage	5340

Aircraft

Type Aircraft Authorized	Actual	Type Aircraft Authorized	Actual
C-12D/F/R	0	OH-58D	0
C12J	0	AH-64	0
C-23	0	UH-60	0
C-26	0	UH-72A	0
UC-35	0	CH-47	0
OH-58	0		

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Functional Space Details - Actual/ English
214L: ARNG - Surface Equipment Maintenance Facility

A1a General Supervisor

Author's Memo

Justification: The CTC will have a General Supervisor that will oversee the Supervisors responsible for the multiple courses conducted in the facility.

Proponent:

Recommendation Date: 01-Apr-2010

Documentation Reference: NG Pam 415-12, Table 3-4, 1.a.

Reviewer's Memo

Feedback/Recommendation:

Proponent:

Recommendation Date:

Documentation Reference:

A1b Supervisor

Author's Memo

Justification: With no other location to account for the space, 600 SF is allotted to the mail/copy room. Using the standard of 150 SF per Supervisor from NG Pam 415-12, Table 3-4, planning on 6 offices for training units (3 units, 2 personnel each, 900 SF), 4 offices for NMTC Automotive and GSE Staff (600 SF), 2 offices for NMTC Allied Trades (300 SF), and 23 offices for NMTC HQ Administrative Offices (3,450 SF) for a total of 5,850 SF.

Proponent:

Recommendation Date: 01-Apr-2010

Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:

Proponent:

Recommendation Date:

Documentation Reference:

A1c Production Controller

Author's Memo

Justification: With up to 15 Soldiers conducting maintenance control operations an

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Date : Mar 6, 2017

214L: ARNG - Surface Equipment Maintenance Facility

d each authorized 150 SF per NG Pam 415-12, Table 3-4 for a total of 2,250 SF.

Proponent:

Recommendation Date: 02-Apr-2010

Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:

Proponent:

Recommendation Date:

Documentation Reference:

A1d Inspection and Library

Author's Memo

Justification: Basic Allowance as specified in NG Pam 415-12, Table 3-4 is expanded to 600 SF to account for the three different types of technical manuals and other mechanical resources (OEM manuals and National Maintenance Work Requirements). Planning on 2 Inspectors for each of the three elements (6) with 60 SF each >1 for an additional 300 SF and a grand total of 900 SF.

Proponent:

Recommendation Date: 02-Apr-2010

Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:

Proponent:

Recommendation Date:

Documentation Reference:

A1e Admin Assistant/Secretary

Author's Memo

Justification: This is the Basic Allowance for an Administrative Assistant/Secretary per NG Pam 415-12, Table 3-4.

Proponent:

Recommendation Date: 02-Apr-2010

Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:

Project Number : 190130
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214L: ARNG - Surface Equipment Maintenance Facility

Proponent:
Recommendation Date:
Documentation Reference:

A1f Common IT Space

Author's Memo

Justification: By NG Pam 415-12, Table 3-4, each SAMS-E is authorized 30 SF and each printer is authorized 10 SF, totaling 40 SF each sytem with up to three units at one time. Have increased this space from 120 to 360 to allow room to train on SAMS-E with the rotating units on their systems.

Proponent:
Recommendation Date: 02-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

A1h Classrooms

Author's Memo

Justification: Required SF increased to 5,400 SF to support three units training simultaneously and on-going Bradley and M-1 Technican Training Programs. Classrooms will be used for the units to conduct briefings to inclduue the in-brief, safety brief, safety stand down, etc. The breakdown of the SF requirements are:

Unit Classrooms - 3,600 SF (3 ea @ 20'x60')

BFV Classroom - 900 SF

M-1 Classroom - 900 SF

Proponent:
Recommendation Date: 01-Apr-2010
Documentation Reference: Instruction POI

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

Project Number : 190130
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214L: ARNG - Surface Equipment Maintenance Facility

A1i Conference Room

Author's Memo

Justification: Complies with Conference Room criteria for NG Pam 415-12, Table 3-4 for facilities with 4 or more Supervisors.

Proponent:

Recommendation Date: 02-Apr-2010

Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:

Proponent:

Recommendation Date:

Documentation Reference:

A2a Latrine/Shower

Author's Memo

Justification: Requirement is calculated based on the NG Pam 415-12, Table 3-4 Criteria for a total of 35 personnel.

Proponent:

Recommendation Date: 02-Apr-2010

Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:

Proponent:

Recommendation Date:

Documentation Reference:

A2b Locker Room

Author's Memo

Justification: Requirement is calculated based on the NG Pam 415-12, Table 3-4 Criteria for a total of 35 personnel.

Proponent:

Recommendation Date: 02-Apr-2010

Documentation Reference:

Project Number : 190130
Project Title : 190130
Date : Mar 6, 2017

214L: ARNG - Surface Equipment Maintenance Facility

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

A2c Break Area

Author's Memo

Justification: The requested break room space is a balance of the needs of the full-time force that is dispersed and the needs of the rotational units that could reach a capacity of 490 Soldiers on the NMTC campus.

Proponent:
Recommendation Date: 02-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

A2d Physical Fitness Area

Author's Memo

Justification: This conforms to the basic allowance as specified in Table 3-4, NG Pam 415-12.

Proponent:
Recommendation Date: 02-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

A3a Tool Room

Project Number : 190130
Project Title : 190130
Date : Mar 6, 2017

214L: ARNG - Surface Equipment Maintenance Facility

Author's Memo

Justification: This is larger than the Tool Room SF of 1,300 calculated based on the number of GPWB, but is due to the 2 ea SATS, 2 ea Common Tool Sets, and assorted special tools assigned to the facility to accommodate the training mission. Breakdown of the SF requirements:

SATS Tool Room - 2,400 SF (2 ea @ 30'x40')

Tool Room Special and Common Tools - 1,000 SF (2 ea @ 20'x25')

Proponent:

Recommendation Date: 01-Apr-2010

Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:

Proponent:

Recommendation Date:

Documentation Reference:

A3b Supply Room

Author's Memo

Justification: This is less than using the standard as set out in NG Pam 415-12, Table 3-4 based on the number of GPWBs, but is consistent with the instructional mission. Intent is to support three unit supply operations conducted simultaneously for a total of 1,800 SF (3 ea @ 20'x30').

Proponent:

Recommendation Date: 02-Apr-2010

Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:

Proponent:

Recommendation Date:

Documentation Reference:

A3c Battery Room

Author's Memo

Justification: This is less than would be calculated based on the number of GPWB for the facility, but is consistent with the mission as an instructional facility as opposed to a full-time maintenance facility. Requested level does not exceed the li

Project Number : 190130
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214L: ARNG - Surface Equipment Maintenance Facility

mit of 500 SF as specified in NG Pam 415-12, Table 3-4.

Proponent:

Recommendation Date: 02-Apr-2010

Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:

Proponent:

Recommendation Date:

Documentation Reference:

A3d Comm/Electronic Shop

Author's Memo

Justification: The requested space is in excess of the parameters established in NG Pam 415-12 due to 1) instructional environment requiring more space for instructor and students, 2) consolidation of field and sustainment shops into one shop, and 3) the need to support up to three units training at the NMTC simultaneously.

Proponent:

Recommendation Date: 02-Apr-2010

Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:

Proponent:

Recommendation Date:

Documentation Reference:

A3f Small Arms Repair Shop

Author's Memo

Justification: This consolidates and supports the training requirements of field and sustainment armament tasks and will support up to three units in the following three distinct areas:

Small Arms Training Area: 1,200 SF

Fire Control/Optics/LRU Training Area: 1,000 SF

Artillery Repair Shop and Artillery Shop Set Storage Area: 1,500 SF

Proponent:

Recommendation Date: 02-Apr-2010

Documentation Reference:

Project Number : 190130
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Date : Mar 6, 2017

214L: ARNG - Surface Equipment Maintenance Facility

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

A3h Vault (Small Arms)

Author's Memo

Justification: Area needed to properly secure an ample amount of small arms items required to train 45B Soldiers from an FMC and an SMC.

Proponent:
Recommendation Date: 02-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

A3i Vault (CBT Veh Arms)

Author's Memo

Justification: Area needed to properly secure an ample amount of combat vehicle arms required to train 45K Soldiers from a heavy FMC.

Proponent:
Recommendation Date: 02-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

A3m Machine Shop

Author's Memo

Project Number : 190130
Project Title : 190130
Date : Mar 6, 2017

214L: ARNG - Surface Equipment Maintenance Facility

Justification: Standard space of 1,600 SF by NG Pam 415-12, Table 3-4 is increased to 2,000 to support three units conducting machine shop operations simultaneously. The shop will meet the training needs of Soldiers from an FMC, SMC and CRC. Allied trades virtual training devices will occupy 200 SF of the area.

Proponent:

Recommendation Date: 02-Apr-2010

Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:

Proponent:

Recommendation Date:

Documentation Reference:

A3n Carpenter Shop

Author's Memo

Justification: The space corresponds with the Basic Allowance for a Carpenter Shop as specified in Table 3-4, NG Pam 415-12.

Proponent:

Recommendation Date: 02-Apr-2010

Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:

Proponent:

Recommendation Date:

Documentation Reference:

A3o Lumber Storage Shed

Author's Memo

Justification: The space corresponds with the Basic Allowance for a Lumber Storage Shed as specified in Table 3-4, NG Pam 415-12.

Proponent:

Recommendation Date: 02-Apr-2010

Documentation Reference:

Reviewer's Memo

Project Number : 190130
Project Title : 190130
Date : Mar 6, 2017

214L: ARNG - Surface Equipment Maintenance Facility

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

A3y Bulk POL Stge For Lub Sys

Author's Memo

Justification: Modeling after the McAninch (CAT) Maintenance Facility, located in Des Moines, this standard bay space will house the materiel/equipment to provide centralized distribution for POL and other maintenance fluids to the other bays in the facility.

Proponent:
Recommendation Date: 01-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

A3z Bulk POL Storage

Author's Memo

Justification: This space is smaller than that defined in NG Pam 415-12, Table 3-4 of 200 SF + 50/GPWB>2 as the area will only provide enough space for replacement bulk POL and maintenance fluid storage for the Bulk POL Stge for Lub Sys and not the Bulk POL Storage for the facility.

Proponent:
Recommendation Date: 01-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

A3aa Controlled Waste Handling Facility

Author's Memo

Project Number : 190130
Project Title : 190130
Date : Mar 6, 2017

214L: ARNG - Surface Equipment Maintenance Facility

Justification:
Proponent:
Recommendation Date: 01-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

A3ab Bulky Equipment Storage

Author's Memo

Justification: The area is smaller than the standard of 100/GPWB in NG Pam 415-12 due to the active utilization of many of the bulky resources as part of the POI and to maximize resources on instructional settings as opposed to storage.
Proponent:
Recommendation Date: 02-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

A3ac Flammable Materials Storage

Author's Memo

Justification: This correlates with the minimum net area for a CSMS and is believed to be adequate based on the instructional mission of the facility.
Proponent:
Recommendation Date: 02-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:

Project Number : 190130
Project Title : 190130
Date : Mar 6, 2017

214L: ARNG - Surface Equipment Maintenance Facility

Recommendation Date:
Documentation Reference:

A3ad Enclosed Unheated Storage

Author's Memo

Justification: The requested space is less than the 250/WB standard specified in NG Pam 415-12, but is based on known requirements and the intent to focus available resources on instructional areas as opposed to support areas.

Proponent:
Recommendation Date: 02-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

A3ae Washer Dryer Utility Space

Author's Memo

Justification: This space is not utilized for by the notes of NG Pam 415-12, Table 3-4, "The space if utilized, shall be deducted from the facility management and storage authorizations.

Proponent:
Recommendation Date: 01-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

A3af D-SET/Fire Control Shop

Author's Memo

Justification: Tank/Turret Repair (DSETS System) is part of the POI for the NMTC. This will provide space for repair of less than 5 systems due to the need to provide room for instructional training on repair of the set.

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214L: ARNG - Surface Equipment Maintenance Facility

Proponent:
Recommendation Date: 02-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

- a Number of General Purpose Workbays

Author's Memo

Justification: A total of eighteen bays are required based on the following requirements:

GSE Training Bays - 3 ea
Automotive Bays - 3 ea
M-1 and M-2 Technican Training - 8 ea
Electronics In Situ - 1 ea
ROWPU -

M-88 Vehicle Recovery -
Proponent:
Recommendation Date: 01-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

- B1b General Purpose Workbay Space

Author's Memo

Justification: The standard bay by the NG Pam 415-12 is 32' x 64', but accounting for the space required in an instructional environment to safely accommodate students and instructors, standard bay is increased to 40' x 64'.

Proponent:
Recommendation Date: 01-Apr-2010
Documentation Reference:

Project Number : 190130
Project Title : 190130
Date : Mar 6, 2017

214L: ARNG - Surface Equipment Maintenance Facility

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

B2a Warm-up Bay

Author's Memo

Justification: For 17 or more GPWB, NGB Pam 415-12, Table 3-5, authorizes 4 warm-up bays. Consistent with the GPWB, for an instructional setting, the standard bay size is 40'x 64' to account for students and instructors.

Proponent:
Recommendation Date: 01-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

B2b Welding Bay

Author's Memo

Justification: Two welding bays using the standard instructional bay size of 40' x 64' to account for three units conducting welding and recovery shop operations simultaneously. The shop is consolidated to meet the training needs of Soldiers from an FMC, SMC and CRC.

Proponent:
Recommendation Date: 01-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

B2d Optional Wash Bay

Project Number : 190130
Project Title : 190130
Date : Mar 6, 2017

214L: ARNG - Surface Equipment Maintenance Facility

Author's Memo

Justification: By NG Pam 415-12, Table 3-5, a field or sustainment maintenance shop is authorized a standard washbay of 32' x 64'. As a washbay will not be utilized for instructional purposes, the bay dimensions comply with the NG Pam.

Proponent:

Recommendation Date: 01-Apr-2010

Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:

Proponent:

Recommendation Date:

Documentation Reference:

B2i Armament Bay

Author's Memo

Reviewer's Memo

Feedback/Recommendation:

Proponent:

Recommendation Date:

Documentation Reference:

CSPT: ARNG - Common Supporting Items

D Wash Platforms (Maint Shop) (EA)

Author's Memo

Justification: In lieu of a washbay.

Proponent:

Recommendation Date: 02-Apr-2010

Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:

Proponent:

Project Number : 190130
Project Title : 190130
Date : Mar 6, 2017

CSPT: ARNG - Common Supporting Items

Recommendation Date:
Documentation Reference:

F1c Turn Pads (SY)

Author's Memo

Justification: Per NG Pam 415-12, para 3-2h. "Pads should each be 30 feet by 30 feet (100 square yards). Three hundred square yards of concrete (3 turn pads) will be used for programming purposes. However, the exact number of turn pads will be determined during the design review based on an economical and practical site facility layout."

Proponent:
Recommendation Date: 02-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

F2c Wash Platform Pad (SY)

Author's Memo

Justification: Wash bay instead of platform.
Proponent:
Recommendation Date: 02-Apr-2010
Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:
Proponent:
Recommendation Date:
Documentation Reference:

F2d Wash Platform Access (SY)

Author's Memo

Justification: Wash bay instead of platform.
Proponent:
Recommendation Date: 02-Apr-2010

Project Number : 190130
Project Title : 190130
Date : Mar 6, 2017

CSPT: ARNG - Common Supporting Items

Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:

Proponent:

Recommendation Date:

Documentation Reference:

L Flagpole(s) (EA)

Author's Memo

Justification: Per NG Pam 415-12, para 3-2q, facility is located on a military installation that already has flagpoles.

Proponent:

Recommendation Date: 02-Apr-2010

Documentation Reference:

Reviewer's Memo

Feedback/Recommendation:

Proponent:

Recommendation Date:

Documentation Reference:

Project Number : 190130

Project Title : 190130

Date: Mar 6, 2017

DD 1391 Cost Worksheet Memos Report

214L - ARNG - Surface Equipment Maintenance Facility

Primary Facilities

Maintenance Shop Addition

Author Memo

Per UFC 30 Jan 17 - min. \$197.85 - max. \$273.21.

Reviewer Memo

Feedback/Recommendation:

Proponent:

Recommendation Date:

Documentation Reference:

Project Number : 190130
 Project Title : 190130
 Date: Mar 6, 2017

Functional Space Details - Actual/ English

214L: ARNG - Surface Equipment Maintenance Facility

ARNG - Surface Equipment Maintenance Facility	Authorized	Requested	Existing	Addition	Memo
Washbay Option:	No	No	0	No	
Dynamometers Required For CSMS or MATES:	No	No	0	No	
Detached Bulk POL Storage:	No	No	0	No	
Detached Controlled Waste Handling:	No	No	0	No	
Detached Flammable Materials Storage:	No	No	0	No	
Detached Enclosed Unheated Storage:	No	No	0	No	
No. of Controlled Waste Barrels	0	0	0	0	
No. of STAMIS Type Terminals	0	0	0	0	
No. of STAMIS Type Printers	0	0	0	0	
No. of Firefinder Radar Facilities	0	0	0	0	
A. Schedule I: Office, Work, and Personnel Space	9,130	6,054	19,913	3,525	
1. Office Area	1,870	2,649	2,219	2,000	
a. General Supervisor	0	0	200	0	X
b. Supervisor	0	0	740	0	X
c. Production Controller	0	900	600	300	X
d. Inspection and Library	200	0	320	0	X
e. Admin Assistant/Secretary	0	0	0	0	X
f. Common IT Space	0	0	92	0	X
g. IT Support Activities (Server Room)	150	49	49	0	
h. Classrooms	1,520	1,700	0	1,700	X
i. Conference Room	0	0	218	0	X
2. Personnel Areas	5,645	3,405	2,814	1,525	
a. Latrine/Shower	1,270	1,592	592	1,000	X
b. Locker Room	1,349	0	934	0	X

Project Number : 190130
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214L: ARNG - Surface Equipment Maintenance Facility

	Authorized	Requested	Existing	Addition	Memo
	1,376	1,813	1,288	525	X
c. Break Area	1,650	0	0	0	X
d. Physical Fitness Area	1,615	0	14,880	0	
3. Work Area					
a. Tool Room	0	0	600	0	X
b. Supply Room	500	0	800	0	X
c. Battery Room	200	0	275	0	X
d. Comm/Electronic Shop	0	0	700	0	X
e. Instrument Repair shop	0	0	650	0	
f. Small Arms Repair Shop	0	0	725	0	X
g. Small Arms Test Room	0	0	440	0	
h. Vault (Small Arms)	0	0	325	0	X
i. Vault (CBT Veh Arms)	0	0	0	0	X
j. Injector Test Room	0	0	300	0	
k. Fuel and Ignition Repair Shop	0	0	525	0	
l. Bil Storage/Issue	0	0	0	0	
m. Machine Shop	0	0	1,600	0	X
n. Carpenter Shop	0	0	1,500	0	X
o. Lumber Storage Shed	0	0	500	0	X
p. Canvas Shop	0	0	1,000	0	
q. Missile Repair Shop	0	0	0	0	
r. Vault (Missile)	0	0	0	0	
s. Calibration Room	0	0	400	0	
t. Calibration Storage	0	0	540	0	
u. Glass Repair Room	0	0	0	0	
v. Radiator Test and Repair Room	0	0	0	0	
w. COMSEC Repair Room	0	0	0	0	

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214L: ARNG - Surface Equipment Maintenance Facility

	Authorized	Requested	Existing	Addition	Memo
x. Radiation Calibration Room	0	0	300	0	
y. Bulk POL Stge For Lub Sys	0	0	0	0	X
z. Bulk POL Storage	200	0	0	0	X
aa. Controlled Waste Handling Facility	0	0	0	0	X
ab. Bulky Equipment Storage	0	0	0	0	X
ac. Flammable Materials Storage	365	0	0	0	X
ad. Enclosed Unheated Storage	250	0	3,700	0	X
ae. Washer Dryer Utility Space	100	0	0	0	X
af. D-SET/Fire Control Shop	0	0	0	0	X
B. Schedule II: Maintenance Shop Work Bays	3,024	27,504	15,963	12,264	
1. General Purpose Workbays	0	12,288	2,048	10,240	
a. Number of General Purpose Workbays	0	6	1	5	X
b. General Purpose Workbay Space	0	12,288	2,048	10,240	X
2. Special Purpose Workbays	2,048	10,240	10,963	0	
a. Warm-up Bay	0	4,096	4,096	0	X
b. Welding Bay	0	2,048	2,048	0	X
c. Body Shop	0	2,048	2,048	0	
d. Optional Wash Bay	0	0	723	0	X
e. Paint Stripping Bay	0	0	0	0	
e1. Paint Stripping Bay Mechanical Room	0	0	0	0	
f. Paint Preparation Bay	0	0	0	0	
g. Paint Bay	0	0	0	0	
g1. Paint Bay Mechanical Space	0	0	0	0	
g2. Paint Kitchen	0	0	0	0	
g3. Personnel Equipment Hygiene Area	0	0	0	0	
h. Engine/Transmission Test Cell	0	0	0	0	

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214L: ARNG - Surface Equipment Maintenance Facility					
	Authorized	Requested	Existing	Addition	Memo
i. Armament Bay	2,048	0	0	0	X
j. Inspection Bay	0	2,048	2,048	0	
3. Egress Space	976	4,976	2,952	2,024	X
4. Firefinder Radar Readiness Bay	0	0	0	0	
5. Other Special Facilities	0	0	0	0	
a.	0	0	0	0	
b.	0	0	0	0	
c.	0	0	0	0	
d.	0	0	0	0	
e.	0	0	0	0	
Total Maint Admin Net Area	9,130	6,054	19,913	3,525	
Mechanical/Electrical (5% of Net)	457	303	0	177	
Maintenance and Storage (3% of Net)	274	182	0	106	
Telecom/Info Tech (1% of Net)	92	61	0	36	
Circulation Allowance (15% or 22% of Net)	1,493	990	0	577	
Structural Allowance (10% of Net)	1,145	759	1,992	443	
Total Maint Admin Gross Area	12,591	8,349	21,905	4,864	
Total Workbay Net Area	3,024	27,504	15,963	12,264	
Mechanical/Electrical (5% of Net)	152	1,376	0	614	
Maintenance and Storage (3% of Net)	91	826	0	368	
Telecom/Info Tech (1% of Net)	31	276	0	123	
Circulation Allowance (15% of Net)	495	4,498	0	2,006	
Structural Allowance (10% of Net)	380	3,448	1,597	1,538	
Total Workbay Gross Area	4,173	37,928	17,560	16,913	

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214L: ARNG - Surface Equipment Maintenance Facility

	Authorized	Requested	Existing	Addition	Memo
Total Maint Shop Gross Area	16,764	46,277	69,748	21,777	
Adjusted Gross Alteration Area	0	0	0	0	
Detached Bulk POL Storage	0	0	0	0	
Circulation Allowance (15% of Net)	0	0	0	0	
Structural Allowance (10% of Net Space)	0	0	0	0	
Total Gross Bulk POL Storage Space	0	0	0	0	
Detached Controlled Waste Handling	0	0	0	0	
Circulation Allowance (15% of Net)	0	0	0	0	
Structural Allowance (10% of Net Space)	0	0	0	0	
Total Gross Controlled Waste Handling Space	0	0	0	0	
Detached Flammable Materials Storage	0	0	0	0	
Circulation Allowance (15% of Net)	0	0	0	0	
Structural Allowance (10% of Net Space)	0	0	0	0	
Total Gross Flammable Materials Storage Space	0	0	0	0	
Detached Enclosed Unheated Storage	0	0	0	0	
Circulation Allowance (15% of Net)	0	0	0	0	
Structural Allowance (10% of Net Space)	0	0	0	0	
Total Gross Enclosed Unheated Storage Space	0	0	0	0	

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ARNG - Common Supporting Items

	Authorized	Requested	Existing	Addition	Memo
ARNG - Common Supporting Items					
Unheated Vehicle Strg Shed Needed:	No	No	0	No	
Wash Platform Required:	No	No	0	No	
Loading Ramp Required:	No	No	0	No	
Rigid Paving for Access Road:	Yes	Yes	0	Yes	
Access Road Length (LF)	0	0	0	0	
No. of Controlled Waste Access Facilities:	0	0	0	0	
No. of Fuel Trucks/Trlr to be Parked with Fuel:	0	0	0	0	
No. of Trucks Simultaneously at Loading Dock:	0	0	0	0	
No. of Turning Pads:	0	0	0	0	
No. of Refuse Collection/Dumpster Sites:	1	0	0	0	
No. of Other Access Apron Service Sites:	0	0	0	0	
No. of Generator Pads	0	0	0	0	
Fuel Storage and Dispensing Systems (EA)					
A. Total Vehicles Requiring Support	0	0	0	0	
1. Vehicles Requiring MOGAS (EA)	0	0	0	0	
2. Vehicles Requiring Diesel Fuel (EA)	0	0	0	0	
3. Vehicles Requiring AVGAS (EA)	0	0	0	0	
4. Vehicles Requiring Other Fuel (EA)	0	0	0	0	
B. Organizational Vehicle Parking					
1. Vehicle Maintenance Activities					
a. Assigned	0	0	0	0	
1) Wheeled vhcl and trlr/towed equip (SY)	0	0	0	0	
2) Tracked/engr vehicle, and equip > 30 (SY)	0	0	0	0	
3) Fuel Truck (SY)	0	0	0	0	
4) HET vehicle (SY)	0	0	0	0	

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ARNG - Common Supporting Items

	Authorized	Requested	Existing	Addition	Memo
b. Supported	0	0	0	0	
1) Wheeled vhcl and trlr/towed equip (SY)	0	0	0	0	
2) Tracked/engr vehicle, and equip > 30 (SY)	0	0	0	0	
3) Fuel Truck (SY)	0	0	0	0	
4) HET vehicle (SY)	0	0	0	0	
c. Unheated Enclosed Vehicle Storage Shed (SF)	0	0	0	0	
d. Controlled Humidity Preservation Shelters (SF)	0	0	0	0	
1) No. of 5,000 SF CHP Shelters (EA)	0	0	0	0	
2) No. of 10,000 SF CHP Shelters (EA)	0	0	0	0	
3) No. of 15,000 SF CHP Shelters (EA)	0	0	0	0	
4) No. of 20,000 SF CHP Shelters (EA)	0	0	0	0	
5) No. of 25,000 SF CHP Shelters (EA)	0	0	0	0	
6) No. of 30,000 SF CHP Shelters (EA)	0	0	0	0	
e. Total Exterior Organizational Vehicle Parking (SY)	0	0	0	0	
C. Loading Docks					
1. Primary Facility Loading Dock (LS)	No	No	0	No	
D. Wash Platforms (Maint Shop) (EA)	0	0	0	0	X
E. Military Vehicle Loading Ramp (EA)	0	0	0	0	
F. Rigid Pavement Other Than Parking (SY)	6,244	11,158	0	7,386	
1. Structures and Pads Supporting Operations (SY)	0	300	0	300	
a. Fuel Truck Containment Area (SY)	0	0	0	0	
b. Mltry Vhcl Loading Ramp Sprt (SY)	0	0	0	0	
c. Turn Pads (SY)	0	300	0	300	X
d. Cannibalization Area (SY)	0	0	0	0	
e. Generator Pad with Electrical Hookup (SY)	0	0	0	0	
2. Service and Access Aprons (SY)	1,244	5,858	0	2,086	

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ARNG - Common Supporting Items

	Authorized	Requested	Existing	Addition	Memo
a. Military Vehicle Loading Ramp (SY)	0	0	0	0	
b. Maintenance Shop Workbay Access Apron (SY)	644	5,858	0	2,086	X
c. Wash Platform Pad (SY)	0	0	0	0	X
d. Wash Platform Access (SY)	0	0	0	0	X
e. Refuse Collection/Dumpster Pad (SY)	150	0	0	0	
f. Controlled Waste Handling (SY)	0	0	0	0	
g. Fuel Pump Island (SY)	0	0	0	0	
h. Fuel Pump Access (SY)	0	0	0	0	
i. Loading Dock Access (SY)	0	0	0	0	
j. BII Strg Load Dock Access (SY)	0	0	0	0	
k. Supply Room Load Dock Access (SY)	300	0	0	0	
l. Enclosed Unheated Storage Access (SY)	150	0	0	0	
m. Access Apron for CHP Shelters (SY)	0	0	0	0	
n. Firefinder Radar Readiness Bay Access	0	0	0	0	
o. Other Service Area (SY)	0	0	0	0	
p. Vehicle Storage Shed Apron (SY)	0	0	0	0	
3. Access Road and Entrance Throat (SY)	5,000	5,000	0	5,000	
G. Flexible Pavement (SY)	4,225	0	0	0	
1. Privately owned vehicle (POV) parking (SY)	3,570	0	0	0	
2. Visitor/Customer Parking (SY)	655	0	0	0	
3. Access Road and Entrance Throat (SY)	0	0	0	0	
H. Vehicle Issue/Turn-in Area (SY)	0	0	0	0	
I. Sidewalks (SY)	772	0	0	0	
J. Curbs (LF)	1,268	0	0	0	
K. Security Fencing (LF)	1,102	0	0	0	
L. Flagpole(s) (EA)	2	0	0	0	X

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ARNG - Common Supporting Items

	Authorized	Requested	Existing	Addition	Memo
M. Exterior Fire Protection (LS)	Yes	Yes	0	Yes	
N. Detached Facilities Sign/Static Display (EA)	0	0	0	0	
O. Outside Security Lighting (LS)	Yes	Yes	0	Yes	
P. Utilities (LS)					
1. Gas (LS)	Yes	Yes	0	Yes	
2. Electric (LS)	Yes	Yes	0	Yes	
3. Chilled/Heated Water Dist System (LS)	No	No	0	No	
4. Water (LS)	Yes	Yes	0	Yes	
5. Waste Water/Sewer (LS)	Yes	Yes	0	Yes	
Q. Storm Water Drainage (LS)	Yes	Yes	0	Yes	
R. Installed Equipment (EA)	1	0	0	0	
1. Refuse Collection Facilities	1	0	0	0	
2. Other Installed Equipment (LS)	0	0	0	0	
a.	No	No	0	No	
b.	No	No	0	No	
c.	No	No	0	No	
d.	No	No	0	No	
e.	No	No	0	No	
S. Fuel Storage and Dispensing Systems (EA)	0	0	0	0	
1. 3000 Gallons	0	0	0	0	
2. 5000 Gallons	0	0	0	0	
3. 7000 Gallons	0	0	0	0	
4. 10000 Gallons	0	0	0	0	
5. 20000 Gallons	0	0	0	0	
T. AC Tonnage (Total)	28	0	0	0	
1. AC Tonnage (Maintenance Shop)	28	0	0	0	

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INFO: ARNG - Information Systems Worksheet

Authorized Requested Memo

I ISCE Inputs:

A. Square Footage Tab

1 Admin	21,777	21,777
2 Intermediate	414	414
3 Barracks	0	140
4 Warehouse/Storage	0	0
5 Clinic/Medical	0	0
6 Class Rooms	2,487	2,487
7 Others	43,376	43,236

B. New Services Tab

1 Single Line Phone	28	7
2 ISDN Sets	27	0
3 Multi-Line Phones	3	0
4 Weatherproof Phones	1	0
5 Explosive Environment Phones	2	0
6 LAN Ports	60	35
7 Wall/Payphone Outlet w/telephone set (additional)	1	0
8 Fiber Optic Outlets (2RJ-45 wDual SC)	0	0
9 SIPRNET	0	0
10 TV Outlets -- All Services	6	6

C. Cabling, Switching, and Building Tab

1 No. Persons to Use Facility Initially	35	35
2 No. Ducts into Bldg: 2, 4, 6, 9, 12-way	2	2
3 Maximum Occupant Capacity	99	99
4 Proposed Bldg Entry Duct/Sys Length - Underground	0	0
5 Type of Building	7	7

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INFO: ARNG - Information Systems Worksheet

Authorized Requested Memo

II ISCE Results:

- A. Construction Primary Funded (\$000)
- B. Construction Support Funded (\$000)
- C. ISC Equipment (OPA \$000)
- D. ISCE Proponent (OMNG \$000)

72	72
6	6
33	33
88	88

