Directorate of Public Works
Engineering Services Division
Fort Bliss, Texas

STATEMENT OF WORK
B2448 Kitchenette
11B 10117 6P. | 30 April 2026

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PART 1 - DESCRIPTION OF WORK

1.1. **Objectives.** Install new kitchenettes at each level at Building 2448 (Rooms 102, 232, and 332). Work to include new ceiling for kitchen use, upper and base cabinets, counter tops and backsplash, new sink, garbage disposal, drinking fountain, new plumbing work above the ceiling and below the floor to the basement for new sink faucet and waste disposal, new range hood through wall exhaust duct and vent, new electrical panel, wiring and conduit and any wall repair / paint for all three levels. The Contractor shall provide all work, labor, materials, related fees, and related services for construction requested herein until completion and acceptance of the entire work, except for any completed unit of work which may have been accepted under the contract, by the Government in a professional and collaborative environment to sustain mission requirements. Construction services and finished products shall be delivered on schedule, safely, and compliant with regulatory codes and standards.

1.2. **Period of Performance.** The period of performance (POP) shall be one hundred and eighty (180) calendar days after issuance of Notice to Proceed (NTP). The POP includes time required to complete the submittals shown on Section 2.10. Work beyond the established POP without proper justification will result in liquidated damages being applied to the project in the amount of $1,717.24 US Dollars per calendar day.

1.2.1. The Contractor shall not commence work unless authorized by the Contracting Officer (KO). All technical questions shall be addressed to the Contracting Officer's Representative (COR) for resolution and clarification.

1.3. **Place of Performance.** The work to be performed under this contract will be performed at Building 2448 [(31.8139095, -106.4162166)], located within the Fort Bliss TX Installation.

1.3.1. Occupancy: Facility WILL be occupied during construction. Do not enter the facility without prior approval of the KO.

1.3.2. All work shall adhere to and comply with the most current International Code Council (ICC), the Unified Facilities Criteria (UFC) https://www.wbdg.org/ffc/dod/unified-facilities-criteria-ufc [military amended codes], NFPA 101 Life Safety Code, the Architectural Barriers Act (ABA) and all other Local, State and Federal Regulations, Codes, and Standards. All Unified Facilities Guide Specifications (UFGS) shall be used for this project (https://www.wbdg.org/guides-specifications).

1.4. **Specific Work Requirements**.

1.4.1. Asbestos and Lead Surveys were conducted February 2012 at Building 2448. Refer to the survey for details and locations to verify if they will be impacted by this project.

1.4.2. If disturbance of asbestos-containing materials (ACM) or Lead Based Pain (LBP) is anticipated, these materials shall be removed:

1.4.3. ASBESTOS CONTAINING MATERIALS (ACM): Shall be removed by licensed and trained individuals (25 TAC 296.41 - 296.62) according to methodology and requirements specified by Texas Administrative Code Title 25, Part 1, Chapter 296, Sub-chapter L (§296.211 - §296.213)OR HANDLING IN PLACE: If project disturbs 10 square feet or less of ACBM for each small project

or task - proponent shall follow 25TAC§296.233 for Alternative Asbestos Practices and Procedures for Small Projects and Repetitive Tasks in a Public Building. A registered asbestos abatement worker may perform a small project or repetitive task that disturbs ACBM. Written notification must be provided, as required in 25TAC§296.251. The clearance-level assessment must be conducted as required in 25TAC§296.213.

1.4.4. LEAD-BASED PAINT (LBP): Lead abatement is defined as the complete removal of the hazardous substance from the building substrate. For lead-related work which only involves stabilizing and encapsulating lead-containing materials, e.g. peeling paint, drilling into painted walls, the customer shall provide DPW-ED the start date of the lead-related work, and the licensed lead contractor information. The customer can obtain additional guidance from DPW-ED on lead-related work to include engineering controls, personnel safety and work practices. According to methodology and requirements specified by Texas Administrative Code Title 25, Part 1, Chapter 295, Sub-chapter I (§295.201 - §295.220) OR HANDLING Lead-based paint activities, as defined in §295.202 of this title (relating to Definitions) shall only be conducted according to the procedures and standards contained in §295.212 of this title (relating to Standards for Conducting Lead-Based Paint Activities). However, the standards contained in §295.212 of this title do not apply when treating paint-lead hazards less than:(1) two square feet of deteriorated lead-based paint per room or equivalent;(2) 20 square feet of deteriorated paint on the exterior building; or (3) 10% of the total surface area of deteriorated paint on an interior or exterior type of component with a small surface area.

1.4.5. NOTIFICATIONS: A proper notification shall be submitted to the State of Jurisdiction (25 TAC 296.251) no less than 10 working days prior to commencement of abatement activity and a copy shall be provided to DPW-ED. If the amounts of ACM are less than the notification thresholds, the customer shall notify DPW-ED of the start date of the small-scale abatement, the licensed abatement company information, and the anticipated amounts of materials to be removed.

1.4.6. FEES & WASTE MANIFEST: The customer shall also provide DPW-ED with a copy of the waste manifest and clearance report, i.e., air sampling, if applicable. The contractor will also be responsible for all State Asbestos Abatement/Demolition Notification fees.

1.4.7. RIGHT-TO-KNOW: It is recommended that prior to conducting any activities which could disturb building materials present at the site that this study be reviewed to ensure that current site conditions are reflected by the report and that additional materials have not been installed. Contractors who are tasked with housekeeping activities, conducting repairs, renovations or demolition of the structure should be provided a copy of this in order to provide OSHA Right to Know communication to their workforce and for use in determining whether any special handling is required by their company policy or OSHA compliance personnel. (OSHA 1910.1001).

1.4.8. FOR NEW BUILDING MATERIALS: The Project Engineer, Architect or authorized persons shall submit to the Environmental Division, Toxic Substances Program Manager or alternate government program manager a letter verifying and certifying that all building materials used in the construction, renovation or remodeling contains no toxic substances, i.e. asbestos, lead, or other regulated toxic substances. The letter shall have attached all safety data sheets (SDS) for each material used in the construction project and the new or existing floor plan where construction took place.

1.4.9. SUSPECT MATERIALS/INCIDENTAL ENCOUNTER: Should any suspect ACM be encountered/disturbed as part of the renovation project these materials will need to be sampled

prior renovations or suspect material could be presumed to be ACM and managed accordingly. Upon discovery, the government representative or contracting officer representative (COR), once notified by the contractor PM shall contact DPW-ED.

1.4.10. Asbestos & Lead Waste

1.4.11. If upgrade, construction or repair activities will generate asbestos and/or lead waste, disposal shall be coordinated with DPW-ED. Disposal costs shall be charged to the project or related contract as applicable. A copy of the waste profile issued by the disposal facility should be provided to DPW-ED. Waste manifests must use the Fort Bliss Environmental Protection Agency Identification Number, and only DPW-ED personnel appointed in writing by the Garrison Commander are authorized to sign the manifests on behalf of Fort Bliss. The original manifests signed by the disposal facilities shall be provided to DPW-ED.

1.4.12. Review the attached surveys for all asbestos (ACM) and lead containing materials to verify if they will be impacted by this project. If the project scope includes disturbing asbestos or lead-containing materials, work must be conducted by a Licensed Abatement company. The Contractor shall coordinate all hazardous material removal with the DPW-ED through the COR and execute all projects in strict adherence to the latest installation, Federal state, and local regulations. Should any suspect ACM be encountered/disturbed as part of the renovation project these materials will need to be tested by the Contractor prior to continuing work or suspect material could be presumed to be ACM and managed accordingly. Upon discovery, the government representative or contracting officer representative (COR), once notified by the contractor PM shall contact DPW-ED. New tests shall be reviewed and approved by DPW-ED through the COR prior to the start of work. Failure to manage present hazardous materials may expose workers, building occupants, and their families to toxic substances, which include carcinogens.

1.4.13. Contractor shall ensure safe access to and egress from building and other adjacent occupied or used facilities during construction and shall provide all required barricades, fencing, covered walkways, planking, lighting, bracing, shoring, warning signs, etc. as required by OSHA and Fort Bliss Regulations for the protection of workmen, staff and Users.

1.4.14. The exact location and quantity of existing ductwork, penetrations, and equipment shall be field verified by the Contractor. Contractor shall examine existing structures, note all conditions as to character and extent of all work involved, validate and Bid accordingly.

1.4.15. Contractor shall field verify all dimensions, exact locations and quantities before commencing Work.

1.4.16. Civil. N/A

1.4.17. Architectural.

1.4.18. Work shall be phased in coordination with the User. Submit proposed Phasing Plan for review and approval by the Government.

1.4.18.1. **1st Floor**

1.4.18.2. Contractor to remove existing mailboxes located on the southern wall and provide new 24 gauge, 6-inch metal stud at 16 inches on center infill with 5/8-inch Type 'X' gypsum board on the interior side of the room. Include tape, bed, texture and two coats of paint.

1.4.18.3. Remove existing acoustical ceiling tiles at Room 102 as noted on drawings, existing suspension system to remain and be replaced in areas where new kitchen hoods and stud wall will be located. Provide acoustic panel ceiling and suspension system (as necessary), Class A, 24-inch x 24-inch square lay-in Armstrong 'Kitchen Zone' 672 or approved equal. Include wire hangers, fasteners, main runners, cross tees, wall angle moldings. 30-year performance guarantee & warranty. Acoustical ceiling panels and grid suspension system shall be from the same manufacturer. Temporarily strap and protect all fire devices, work shall be done by certified fire alarm contractor. Reinstall all fire devices once construction is complete.

1.4.18.4. **2nd Floor**

1.4.18.5. Existing communication server box to remain in place and shall be protected throughout construction. Contractor responsible for any damages.

1.4.18.6. **All levels**

1.4.18.7. Provide new oak wood base and upper cabinets with a medium stain, color to be determined during Submittal review. Provide exterior grade moisture resist and veneer core hardwood plywood Grade AA with non-telegraphing grain manufactured with Type II adhesive for box construction. Solid 1/2-inch-thick engineered wood for back and sides. Solid oak door frame with 1/2-inch-thick oak center panel. Shaker doors with 3-inch-wide frames, flat recessed center panels, and concealed high quality steel door hinges. 3/4-inch-thick plywood adjustable shelves with clear high-strength locking 3/4-inch-thick. Two full depth adjustable shelves at wall cabinets and one-half depth adjustable shelf at base cabinets. Wall cabinets shall be 12 inches wide, base cabinets shall be 24 inches wide. All base cabinets shall have a drawer with full access hidden glides system, two bumpers per drawer and 3-inch satin brass bar pulls at all wall/base cabinets and drawers. Toe kick to match finish, provide 4-inch wall base over toe kick. Provide Shop Drawings for review, including plan views, elevations, sections and attachment details. Show large-scale details. Show dimensions and locations and sizes of furring, blocking, and hanging strips.

1.4.18.8. Provide 3/4-inch quartz agglomerate solid surface countertop and 4-inch backsplash that is a homogeneous filled solid polymer; not coated, laminated or of a composite construction complying with ICPA SS-1 except for composition. Color as available from manufacturer's standard color range, provide color chips and/or samples for review. Provide continuous bead of waterproof silicone where countertop/backsplash and tile meet.

1.4.18.9. Provide new ASME A112.19.3/CSA B45.4, single compartment kitchen sink, 20 gage stainless steel with integral mounting rim for flush installation, minimum dimensions of 30 inches wide by 21 inches front to rear, with undersides fully sound deadened, with supply openings for use with top mounted washerless sink faucets with hose spray, and with 3.5-inch drain outlet. Provide aerator with faucet. Water flow rate must not exceed 8.3 L per minute 2.2 gpm when measured at a flowing water pressure of 414 kPa 60 psi. Provide stainless steel drain outlets and stainless-steel cup strainers. Provide separate 1.5-inch P-trap and drain piping to vertical vent piping from

each compartment. Provide top mounted washerless sink faucets with hose spray. Provide UL 430 waste disposer. Provide new GFCI outlet including all conduit and wiring back to closet electrical panel for new waste disposer. Electrical connections shall be made in accordance with all current and applicable Codes.

1.4.18.10. Install new drinking fountain and shall be indoor electrical, bottle filling station refrigerated, non-filtered, light gray, wall mounted and with flow rate of 8gph.

1.4.18.11. Provide 2 coats of interior latex paint with eggshell finish on all interior walls, soffits, furr downs, hard ceilings and hollow metal door frames. Basis-of-Design: Sherwin Williams Promar 400 Zero VOC Interior Latex or approved equal and Sherwin Williams, "Emerald" Urethane Trim Enamel Interior-Exterior Waterbased (semi-gloss finish) or approved equal.

1.4.18.12. Paint all hollow metal door frames (both sides). Sand to ensure proper paint adhesion. Provide two coats of field applied rust inhibitive primer and Sherwin Williams, "Emerald" Urethane Trim Enamel Interior- Exterior Waterbased (semi-gloss finish) or approved equal.

1.4.19. Structural. N/A

1.4.20. Fire Protection.

1.4.20.1. Contractors shall review the Fire Prevention Construction Guide 2025 prior to construction work.

1.4.20.2. Fire Extinguisher cabinets and extinguishers shall be installed IAW the most current editions of the UFC 3-600-01, NFPA 10-Standard for Portable Fire Extinguishers, NFPA 1 and NFPA 101-Life Safety Code. Fire extinguisher cabinets shall be of all metal construction and the unlocked type to accommodate 10lb ABC extinguishers with a rating of 4-A: 60 B: C (10#) for all installations. Extinguisher cabinets shall not have glass or be lockable.

1.4.20.3. Provide new Ansul Fire Suppression System with kitchen hood on second and third level. Ansul System shall meet all applicable codes and regulations and shall be connected to the fire alarm system of the building. All fire alarm, fire suppression, and mass notification modifications and additions must be approved by the Fort Bliss Fire Department (FBFD) prior to start of installation. FBFD must also test and certify all affected systems prior to project completion.

1.4.20.4. The contractor shall provide and install two stovetop 'firestop' range hood automatic Fire Suppressor Canisters on each range hood (install according to manufacturer instruction).

1.4.20.5. Contractors will follow the current NFPA 70 codes.

1.4.20.6. All facilities shall be constructed using UFC 3-600-01, 08 August 2016, or most current edition available, Fire Protection Engineering for Facilities. Most current NFPA standards will be applied accordingly. Please refer to NFPA 241 Safeguarding construction and Demolition Operations, ed. 2022.

1.4.20.7. The contractor will follow the Fire Prevention Guide for Civilian Contractors performing work on Fort Bliss. A copy of this requirement will be provided along with the requirements for "Hot Work Permits and Emergency Reporting Procedures." For issuance of the Hot Work Permits contact 915-543-0019.

1.4.20.8. Installation of the Ansul system shall be installed as per NFPA 96-Chapter 10.1 Fire Extinguishing Equipment for cooking operations in buildings. All Ansul systems must be tied into the fire alarm system and tested.

1.4.21. Electrical.

1.4.22. All electrical work must be completed by a licensed technician. Technicians must be licensed / certified in the state of Texas.

1.4.22.1. Contractor to verify breaker capabilities before adding new load.

1.4.22.2. The contractor shall install 220v electric outlets in each kitchenette for the ranges power needs and install range hoods above each electric range supported by wall cabinets. The contractor shall verify that the range hoods meet the exhaust requirements for the ranges before installation.

1.4.22.3. Provide panel new flush mounted 100amp 4-wire,120/208V, 12 circuit capacity Electrical Panel. Cut out drywall where required. Patch and paint drywall to match existing. Electrical connections

1.4.22.4. Provide new 20A feeder for new above the counter receptacles with GFCI at sink counter. New 20A single pole breaker, new 120V 20A duplex receptacles, 6" above counter at sink.

1.4.22.5. Provide full voltage contactor, 2-pole 240V, 50A continuous current rating.

1.4.22.6. Provide new GFCI outlet including all conduit and wiring back to closet electrical panel for a new waste disposer. Electrical connections shall be made in accordance with all current and applicable codes.

1.4.22.7. Upgrade and install electrical circuit and connection to support a new 208V single phase electric range.

1.4.23. Telecommunications.

1.4.23.1. Furnish incidental work and materials to disconnect, remove, store, secure, protect, and reinstall applicable roof telecommunication equipment, connections, and features. Protect temporary terminations. Any communication cable either Fiber or Copper coming in aerially into the building will need to be decommissioned, prevented from being damaged, and re-installed per the current Installation Information Infrastructure Architecture (I3A) and UFC Army regulations and standards. Any damage or cut cables will be reported to The Project Manager Network Enterprise Center (NEC). Operations & Plans Branch via the COR.

1.4.23.2. Current I3A Army Communication Standards 2010. If any communication lines, equipment, or hardware is disturbed, it will need to be reinstalled IAW the most current 3 UFC 580-01 ISP Communication Standards.

1.4.23.3. If any communication lines need to be moved, please do so IAW I3A and UFC standards. If trenching or marking is required, please submit requests to usarmy.bliss.106-sig-bde.mbx.nec-

dig-permits@mail.mil as we are not tied in with 811. Please contact the Network Enterprise Center (NEC) before disturbing any communications equipment the contractor may come across (network switches, fiber lines, etc.). Please do not dispose of any communications equipment the contractor may come across. Please request a site visit by the NEC NLT 7 days prior to work start date and NLT 7 days prior to project completion to ensure surveys and inspections ensuring communication lines are operational. If fiber needs to be pulled through duct banks, please ensure pathways have been checked and cleared.

1.4.24. Mechanical/Plumbing/HVAC.

1.4.24.1. Provide a new ducted 30-inch dual motor range hood with 900 CFM over each range (Not in Contract /NIC). Basis of Design: VIKIO Model #IKC01-30-J, 30-inch 900 CFM ducted under cabinet range hood in stainless steel with 3-way venting and removable LED or approved equal.

1.4.24.2. Provide new eight-inch round duct connection to new range hoods through wall to new wall vent for exterior exhaust on first floor. Provide sealant and paint to match at the exterior.

1.4.24.3. Provide a new sink, faucet and associated piping for each kitchenette. Provide new 1-1/2-inch vent line through wall and above ceiling and connect to nearest vent pipe.

1.4.24.4. Provide three new waste disposal (one per each level). Electrical GFCI outlet is required below the sink for connection and provide control switch 6 inches above the sink. Refer to Drawings for specification.

1.4.24.5. Provide new electric drinking fountains with bottle filler at the first and third floor as shown and specified in the Drawings. Provide new 1-1/2-inch vent line through wall and above ceiling and connect to nearest vent pipe. Core drill existing concrete floor to connect 1-1/2-inch drain line to existing sanitary sewer line from second floor and provide firestopping material and sealant at penetration. Refer to Drawings for specification.

1.4.24.5.1. Provide new range hood fire suppression systems and all associated wiring and conduit at first floor kitchenette and interconnect with building fire alarm system. Verify the interconnection point/method with DPW-ESD and the Fort Bliss fire alarm maintenance Contractor.

1.4.24.6. Perform diagnostic core drilling to locate sewer line. Tie-in to the nearest water line, sewer line and electrical power as shown on the drawings.

1.4.25. Contractor shall provide all connections, supports, pee traps, and all other materials and equipment to meet all applicable codes and regulations and to ensure proper operations of all plumbing fixtures in the building.

1.4.26. Contractor shall provide clean outs of appropriate size for all fixtures as per all applicable codes and regulations.

1.5. **Attachments**.

A. Environmental Review Form
B. ESD-FRI Template

C. Drawing sets DWG_Bldg 2448_11B 10117 6P_Kitchenette
D. Eng_Form_4288-R, Submittal Register
E. Fort Bliss Solid Waste Program
F. Fort Bliss Fire Prevention Construction Guide 2026
G. iWatch Training for Contractors
H. TRADOC Form 928-R-E, Material Approval Submittal
I. As-Built Drawings
J. B2448 Hazmat Surveys
K. Specifications: All Unified Facilities Guide Specification (UFGS) shall be used for this project including but not limited to those listed below. All specifications can be found at https://www.wbdg.org/guides-specifications)
UFC 3-110-03 ROOFING, WITH CHANGE 5
UFGS 01 45 00.00 20 QUALITY CONTROL (HVAC)
UFGS 01 45 00.00 40 QUALITY CONTROL (PROCESS)
UFGS 01 50 00 TEMPORARY CONSTRUCTION FACILITIES AND CONTROLS
UFGS 01 57 19 TEMPORARY ENVIRONMENTAL CONTROLS
UFGS 01 74 19 CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT
UFGS 01 75 00.00 40 STARTING AND ADJUSTING
UFGS 01 78 00 CLOSEOUT SUBMITTALS
UFGS 02 41 00 DEMOLITION AND DECONSTRUCTION
UFGS 02 82 00 ASBESTOS
UFGS 02 83 00 LEAD REMEDIATION
UFGS 05 05 23.16 STRUCTURAL WELDING
UFGS 05 12 00 STRUCTURAL STEEL
UFGS 05 50 13 MISCELLANEOUS METALS
UFGS 05 50 14 STRUCTURAL METAL FABRICATIONS
UFGS 06 10 00 ROUGH CARPENTRY
UFGS 07 22 00 ROOF AND DECK INSULATION
UFGS 07 54 23 THERMOPLASTIC-POLYOLEFIN ROOFING
UFGS 07 60 00 FLASHING AND SHEET METAL
UFGS 07 92 00 JOINT SEALANTS
UFGS 09 90 00 PAINTS AND COATINGS
UFGS 23 03 00.00 20 BASIC MECHANICAL MATERIALS AND METHODS
UFGS 26 00 00.00 20 BASIC ELECTRICAL MATERIALS AND METHODS
UFGS 26 05 00.00 40 COMMON WORK RESULTS FOR ELECTRICAL

PART 2 - GENERAL REQUIREMENTS.

2.1. **Basic Guidelines**.

2.1.1. Preconstruction Conference. Prior to the start of any construction work an authorized representative of the KO will schedule and conduct a preconstruction conference. The notification will include specific details regarding the date, time, and location of the conference, any need for attendance by sub-Contractors, and information regarding the items to be discussed.

2.1.1.1. The Contractor's Project Manager (PM), Superintendent, and Quality Control Manager (QCM) shall attend this meeting. Minutes of the meeting will be prepared and signed by the Contractor. The minutes shall be sent to the COR for review and approval no later than 24 hours after the meeting.

2.1.2. Construction Documents. Contractor shall have a copy of the Contract, Scope of Work (SOW), Drawings, and specifications at the construction site at all times.

2.1.3. Licenses and Permits. The Contractor shall verify all dimensions and investigate existing site conditions prior to submitting proposal. The Contractor shall, without additional expense to the Government, be responsible for obtaining any necessary licenses and permits. The Contractor shall comply with all applicable laws and regulations, including but not limited to Building Codes, Federal Law, Texas State Law, Occupational Safety and Health Administration (OSHA) regulations, Army and installation regulations.

2.1.4. Contractor Furnished Items. Everything included in this paragraph and its subparagraphs is basic to the contract and should be included in the contract price.

2.1.4.1. The Contractor shall provide all labor, supervision, transportation, vehicles, supplies, equipment, materials and services required to perform work under this contract. The Contractor shall, as necessary, provide all equipment needed to perform the work safely and to meet the requirements herein.

2.1.5. Installation Property. Contractor shall exercise extreme caution to protect building finishes, private property, military property, historic material, cultural resources, etc., from damage during the performance of these contract requirements. Contractor shall be responsible for all loss or damage to Government and private property while executing contract requirements as a result of negligence on behalf of the Contractor, subcontractors, or any representatives of the Contractor or subcontractors."

2.1.6. Contractor Vehicles. Contractor's personnel, whose tasks involve operation of any vehicles, shall possess a valid U.S. state driver's license, certificates and permits, applicable for the type and class of vehicle being operated.

2.1.6.1. Limited Access. The Contractor shall only use existing roadways when transporting personnel and/or material during the execution of the contract. The Contractor shall strictly adhere to the foregoing and shall not develop new ingress or egress roads.

2.1.6.2. Parking. The Contractor shall ensure that its personnel use designated parking areas only. Personal and non-construction related vehicles shall not be parked on grassy, gravel, or landscaped areas (unless identified as acceptable in drawings).

2.1.7. Buy American Act. Construction Materials. Applying to contracts for the construction, alteration, or repair of any public building or public work in the United States, the Contractor shall utilize commercially available off-the-shelf (COTS) construction materials in accordance with Executive Order 10582 and 41 U.S.C. chapter 83, Buy American.

2.2. **Key Personnel**. The personnel listed below are considered essential to the work being performed under this contract. Prior to substituting, removing, replacing, or diverting any of the specified individuals, the Contractor shall notify the KO fifteen (15) working days in advance and shall submit a written request and justification (including proposed substitutions) in sufficient detail to permit evaluation of the impact on this Contract. The proposed substitution of personnel must meet or exceed the experience and other technical requirements of the personnel being replaced. No change in personnel shall be made by the Contractor without the prior written consent of the KO. However, in urgent situations, as determined or agreed to by the KO, an oral request to substitute key personnel may be approved and subsequently ratified by the KO in writing. Such ratification shall constitute the consent of the KO required by this paragraph. The KO will notify the Contractor within ten (10) working days after receipt of all required information of the decision on the substitution(s). In the event the proposed substitution of key personnel does not meet or exceed the experience and other technical requirements of the personnel being replaced, substitution of acceptable replacements for the individuals as specified below. The key personnel listed below may, with the consent of the contracting parties, be amended during the course of the Contract to either add or remove personnel as necessary.

PM
Superintendent
Site Safety and Health Officer (SSHO)/ QCM

2.2.1. PM. The Contractor shall provide a PM.

2.2.1.1. The role of the Construction PM is to be the Government's Point of Contact (POC) for projects and administration of construction. Per project, the PM is accountable for:

2.2.1.1.1. Management of performance of all trade Contractors, review and analysis of SOW, architectural and engineering drawings and specifications; ensuring contract documents and regulations are comprehended and followed; supervision of Construction Superintendent(s), reviewing and approving their reports, submittals, monitor reported difficulties, and correcting safety violations/ deficiencies; developing, tracking, updating and controlling construction schedule; project management plan, and associated costs to achieve completion of project; coordinating the closure of a project.

2.2.1.2. The PM shall possess the following:

2.2.1.2.1. Language. Full professional working proficiency at speaking, listening, reading, and writing in English.

2.2.1.2.2. Experience. Five (5) years of experience (within the last ten (10) years) working as a Construction PM (or in a position with equivalent responsibilities) managing multiple construction projects simultaneously related to the project.

2.2.2. Superintendent. The Contractor shall assign one competent superintendent for each project. The superintendent shall be accountable for overall supervision and management of job site coordination, day-to-day operations, schedule adherence, enforcement of safety and quality, managing subcontractors, has authority to act for the Contractor, and shall be on site at all times during Construction. The superintendent is required to attend facility turnover meetings (Red Zone meetings), partnering meetings, and quality control meetings. The qualification requirements for the alternate superintendent are the same as for the superintendent.

2.2.2.1. The Superintendent shall possess the following:

2.2.2.1.1. Language. Full Professional working proficiency at speaking, listening, reading, and writing in English.

2.2.2.1.2. Experience. Five (5) years' experience (within the last ten (10) years) working as a Construction Superintendent (or in a position with equivalent responsibilities), managing multiple construction projects simultaneously related to the project. The superintendent must be familiar with the requirements of Engineering Manual (EM) 385-1-1 and have experience in the areas of hazard identification and safety compliance. The individual must be capable of interpreting a critical path schedule and construction drawings. The KO may request proof of the superintendent's qualifications at any point in the project if the performance of the superintendent is in question.

2.2.3. SSHO. The SSHO shall be accountable for overall supervision and management of the Contractor's safety program(s) and plan(s). Contractor shall assign one SSHO for each project who will work simultaneously as the SSHO and QCM. The SSHO shall be on site at all times during construction to implement and administer the Contractor's safety program and Government-accepted Accident Prevention Plan. An alternate shall be identified in the Construction Safety Plan to serve in the event of the SSHO's absence. The requirements for the alternate are the same as the SSHO. The SSHO shall meet the requirements of EM 385-1-1 Chapter 2 Safety and Occupational Health Program management for Contractors. The SSHO must ensure that the requirements of 29 CFR 1926.16 are met for the project. It is responsibility of the Contractor to express to the KO in the event that due to the complexity of the project, one employee will be required-for each position.

2.2.3.1. The SSHO shall be the Government's POC for all aspects relating to safety. The SSHO responsibilities include, but are not limited to facilitating and ensuring the completion of facility safety assessments/investigations of reportable and non-reportable mishaps involving personal injury accidents, property damage, and cases of occupational illnesses; recording accident reports in an accurate, complete, and timely manner; assuring that claims for injuries and illnesses are posted in the Occupational Safety and Health Administration log; promoting and furnishing applicable safety and health, accident prevention, and investigation training for Contractor's employees; assessing and evaluating work environment, identifying potential hazards, and aiding Contractor, Construction PM, and Construction Superintendent during work place inspections; supporting Contractor, Construction PM(s), and Construction Superintendents in investigating accidents and developing measures to prevent recurrences.

2.2.3.2. The Safety Manager shall possess the following:

2.2.3.2.1. Language. Full professional working proficiency at speaking, listening, reading, and writing in English.

2.2.3.2.2. Experience. Five (5) years' experience (within the last ten (10) years) working as a SSHO (or in a position with equivalent responsibilities), identifying potential risks and hazards, investigating accidents, and promote occupational safety on multiple construction projects, simultaneously, related to the project.

2.2.3.2.3. Certification. SSHO shall possess active credentials as a Certified Safety and Health Official (CSHO) in construction or Master Certification (MC) from an OSHA Training Institute Education Centers.

2.2.4. QCM. The QCM shall be accountable for overall supervision and management of the construction's quality control and management program(s) and plan(s). Contractor shall assign one QCM for each project who will work simultaneously as SSHO and QCM. The QCM shall be on site at all times during construction and alternate shall be identified in the Construction Quality Control Plan to serve in the event of the QCM's absence. The requirements for the alternate are the same as the QCM. It is the responsibility of the Contractor to express to the KO in the event that due to the complexity of the project, one employee will be required-for each position.

2.2.4.1. The QCM is to be the Government's POC for all aspects relating to quality control. the QCM responsibilities include but are not limited to the supervision and management of the Contractor's quality control and management program(s) and plan(s) in accordance with specifications; inspecting work for conformance to project plans and specifications identifying issues arising during construction and verifying that deficiencies have been corrected; recording and notifying the PM and/or Superintendent of problems on a timely basis so that corrections can be made without impact to the project schedule; creating, updating and maintaining the project submittal log and all other project specific quality control reports; reviewing shop drawings and submittals for conformance with project specifications by direct review and by leveraging the knowledge and experience of others in the project team when necessary; scheduling, reviewing, certifying, and managing submittals, including those of subcontractors, designers of record, consultants, manufacturers, offsite fabricators, suppliers, and purchasing agents; tracking preparatory, initial, and follow-up control phases and control, verification, and acceptance tests including documentation; continuing development of the project Quality Control Plan to address the specific needs of task orders, as required; examining the work area to assure that all required preliminary work has been completed and is in compliance with the contract; reviewing drawings and each paragraph of applicable specifications, reference codes, and standards applicable to work being performed in the field.

2.2.4.2. The QCM shall possess the following:

2.2.4.2.1. Language. Full professional working proficiency at speaking, listening, reading, and writing in English.

2.2.4.2.2. Experience. Five (5) years' experience (within the last ten (10) years) working as a QCM (or in a position with equivalent responsibilities), managing multiple construction projects simultaneously related to the project.

2.3. **Utilities**. The Government will provide electricity and water for Contractor use in conjunction with this contract where available, and commodities will be at no cost to the Contractor. The Contractor shall instruct employees in utilities conservation practices. The Contractor shall be responsible for operating under conditions that preclude the waste of utilities. Contractor shall meter all utilities used and report them to Sustainability & Energy and Engineering Services Division. To coordinate the use of utilities please contact the COR. The Contractor shall provide its own sources of utilities (water, electricity, etc.) needed to complete the work in the SOW at locations where Government utilities are not available.

2.3.1. Utilities Cutovers and Interruptions. All anticipated utility outages shall be coordinated with DPW through the COR. A minimum advance notice of fourteen (14) calendar days shall be provided by the Contractor. Make utility cutovers and interruptions after normal working hours or on Saturdays, Sundays, and Government holidays unless directed otherwise. Conform to procedures required in paragraph Work Outside Regular Hours.

2.3.2. Portable Latrines. The Contractor shall be responsible for furnishing portable latrines as required by OSHA and American National Standards Institute (ANSI), for the use of employees at such locations as designated by the KO or COR.

2.4. **Hours of Operation**.

2.4.1. Normal Work Hours. The Contractor shall perform all work during normal work hours. Normal work hours are defined as the time period from 0730 hours (7:30 AM) to 1630 hours (4:30 PM) MDT/MST, Mondays through Fridays except on Federal holidays or when the Government facility is closed due to local or national emergencies, administrative closings, or similar Government directed facility closings. The Contractor shall not be reimbursed when the Government facility is closed for the above reasons.

2.4.1.1. Federal Government Holidays. For Government holidays visit https://www.opm.gov/policy-data-oversight/pay-leave/federal-holidays/#url=Overview .

2.4.1.2. This list of holidays relates to Government duty days and is not intended to supplement or otherwise alter the provisions of any Wage Determination regarding applicable paid holidays.

2.4.1.3. It is understood and agreed between the Government and the Contractor that observance of such days by Government personnel will not be a reason for an additional period of performance, or entitlement of compensation except as set forth within the contract. In the event the Contractor's personnel work during the holiday, the Contractor may reimburse them; however, no form of holiday or other premium compensation will be reimbursed either as a direct or indirect cost, other than their normal compensation for the time worked, unless stipulated otherwise. This provision does not preclude reimbursement for authorized overtime work if applicable.

2.4.1.3.1. When the Department of Defense grants excused absence to its employees, the Contractor agrees to continue to provide sufficient personnel to perform critical tasks already in operation or scheduled, and shall be guided by the instructions issued by the KO or the COR.

2.4.1.4. If Government personnel are furloughed, the Contractor shall contact the KO or the COR to receive direction. It is the Government's decision as to whether the contract price/cost will be affected as a result of Government shutdown and/or furloughed Government employees. In the

event that Government shutdown and/or furloughed Government employee does impact contract price/cost, a negotiated settlement will be reached as deemed appropriate by the KO.

2.4.2. Approval of Work Outside Normal Work Hours. Work outside regular working hours requires KO approval. Make application fifteen (15) calendar days prior to such work to allow arrangements to be made by the Government for inspecting the work in progress, giving the specific dates, hours, location, type of work to be performed, contract number and project title. Based on the justification provided, the KO may approve work outside regular hours. During periods of darkness, the different parts of the work must be lighted in a manner approved by the KO.

2.5. Approval of work other than normal work-hours of the military reservation will be based upon the requirements of the task, technical or safety factors and not for the convenience of the Contractor. This is not intended to restrict the Contractor to an 8-hour day if the segment of project requires continuous work until completed because of mission requirements, the technical nature thereof, in the interest of safety, or to prevent damage to the project or other property. The Contractor shall give prior notice of such requirements to the KO. The KO may authorize the Contractor to perform work outside of normal working hours and/or working days. When the Government requires the Contractor to work outside normal hours, the Contractor shall be notified at the onset of the project, but not less than 24 hours in advance.

2.6. **Environmental**. The Contractor shall perform all work in such a manner as to minimize the polluting of air, water, or land and shall, within reasonable limits, control noise and the disposal of solid waste material, as well as other pollutants. The Contractor shall comply with AR-420-47 Solid & Hazardous Waste Management, Title 40 CFR Part 260 through 273 and with all Federal, State, and local laws and regulations concerning environmental pollution control. Compliance by Subcontractors shall be the responsibility of the Contractor.

2.6.1. Permits.

2.6.1.1. Hazardous Material Abatement. The Contractor shall coordinate all hazardous material removal with the DPW-ED through the COR and execute all projects in strict adherence to the latest installation, Federal, state, and local regulations. Copies of the ten (10) day notification shall be required prior to any abatement. Copies of all clearance reports, air monitoring, and waste manifests shall be required at the completion of the project. All notifications and records pertaining to hazardous materials shall be submitted to the Fort Bliss Safety Office, Industrial Hygiene Services, COR, and DPW-ED Asbestos and Lead Program Manager.

2.6.1.2. Air Emissions. Construction Operating Permits may be required prior to the installation of a significant, stationary, and/or air emissions source. Possible sources include but are not limited to: boilers, generators, paint booths, baghouses, cyclones, painting operations, wood working operations, welding operations, de-painting or blasting operations, engine test cells, solvent baths/degreasers, fuel storage tanks, or fueling operations. The air emission units listed above may also require a modification to the installation's Title V Permit and cannot be installed nor operated until a permit is issued is issued by the state permitting authority as applicable. Coordinate with the Air Program Manager via the COR for further guidance.

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2.6.2. Hazardous Materials Requirements

2.6.2.1. Certification of Asbestos Free Construction. Texas House Bill 1927, effective September 2001, requires a Safety Data Sheet and a signed statement by an architect, engineer or Texas Department of Health Inspector identifying presence of asbestos containing material in all construction building materials (reference Texas Asbestos Health Protection Rules, Section 295.34, Part J). The Contractor shall provide a signed statement a CERTIFICATION form and attached with Safety Data Sheet (SDS) on each construction material (i.e. interior & exterior material of construction including mastic, sealant, roofing felt, roofing coating, non-roofing coating, floor tile and mastic, pipeline wrap, any type of friction material, etc.) and equipment.

Any excavation could encounter asbestos-containing concrete pipe, a.k.a. transite. If, during excavation, transite pipe is found the material shall not be disturbed by grinding, breaking, scraping or crushing, but shall be abated or removed by a licensed company with properly trained personnel using best management practices to prevent worker exposure, and proper handling and disposal of Asbestos Containing Materials (ACM) pipe; or excavation deviated to leave transite pipe undisturbed and left abandoned in place. If ACM pipe is encountered contact the Lead/Asbestos Program via the COR for further guidance.

2.6.2.2. Hazardous/ Regulated Materials. Hazardous materials (new) that are required for the project need to get approval from AFSB-FB through the Haz-Mart. The SDS is submitted to the Haz-Mart for review and approval. Once approved it can be brought and used on the installation, and must be stored according to the manufacturer's recommendation.

2.6.2.3. No material other than construction materials, e.g. PVC, CPVC, or other suitable materials, will be brought into the installation.

2.6.3. Construction Waste Management and Disposal

2.6.3.1. Salvage, Waste, and Disposal. The Contractor shall dispose of excess scrap, materials, debris or waste at an approved off-post location IAW applicable Local, State and Federal laws and regulations and pay any related fees.Burning or burial of materials is not permitted. The Contractor shall maintain a clean work area free of construction debris.

2.6.3.2. Daily Clean Up. The cleanup of the work site shall include, but not limited to, the removal of scrap (waste materials), spoils, debris, and salvage material that results from work on this project as well as general upkeep of the site to include mowing, trimming and weed control. The Contractor shall maintain a clean work area, free of construction debris. The Contractor shall clean the work site daily as well as after completion of the project in the project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter and foreign substances.

2.6.3.3. [Texas Commission of Environmental Quality (TCEQ). Contractor shall comply with Texas Commission on Environmental Quality, Chapter 290 – Public Drinking Water, 290.101 – 290.119, 290.121, 290.122, Effective March 30, 2017, or most current approved version. The purpose of these standards is to assure the safety of public water supplies with respect to microbiological, chemical, and radiological quality and to further efficient processing through control tests, laboratory checks, operating records, and reports of public water supply systems.

2.6.3.3.1. For new construction it is required to follow the plumbing code for the state of Texas before they

can connect to secondary water system. A customer service inspection (CSI) certificate shall be completed prior to providing continuous water service to new construction, on any existing service either when the water purveyor has reason to believe that cross-connections or other potential contaminant hazards exist, or after any material improvement, correction, or addition to the private water distribution facilities.

2.6.3.4. Drinking Water. Proponent shall ensure compliance with the Clean Water Act, the Safe Drinking Water Act, American Water Works Association (AWWA) Standards, and 30 TAC 290 Public Drinking Water Texas Rules, Regulations and Fees. CROSS-CONNECTION/BACK-FLOW PREVENTERS: There shall be no cross-connection, open or potential, between a system furnishing potable water and a system furnishing non-potable water. Responsible authorities must implement, administer, and maintain ongoing back-flow prevention and cross-connection control programs to prevent back-flow; protect public water systems from the actual or potential hazards originating on the premises of end user building owners or end users; and protect public water systems from temporary connections that may impair or alter the water. The return of any water to the public system after the water has been delivered to the end user at the point of connection is an unacceptable public health concern and is opposed by AWWA.

2.6.3.4.1. NEW CONSTRUCTION OR ALTERATION OF SECONDARY WATER SYSTEM (TX): For new construction it is required to follow the plumbing code for the state of Texas before they can connect to secondary water system. A customer service inspection (CSI) certificate shall be completed prior to providing continuous water service to new construction, on any existing service either when the water purveyor has reason to believe that cross-connections or other potential contaminant hazards exist, or after any material improvement, correction, or addition to the private water distribution facilities. Any customer service inspection certificate form which varies from the format found in commission Form 20699 must be approved by the executive director prior to being placed in use. Individuals with the following credentials shall be recognized as capable of conducting a customer service inspection certification: 1) Plumbing Inspectors and Water Supply Protection Specialists licensed by the Texas State Board of Plumbing Examiners. 2) CSI who have completed a commission-approved course, passed an examination administered by the executive director, and hold a current professional license as a customer service inspector. 3) After successful completion of the inspection, the original Form 20699 shall be turned into the Utility Provider, FBWSC. Coordinate submission of the form with Mr. Gilbert Mesa, Gilbert.Mesa@asusinc.com, or Mr. Ruben Contreras, Ruben.Contreras@asusinc.com.

2.6.3.5. Wastewater. Proponent shall ensure compliance with the Clean Water Act and refer to 30 TAC 217. modifications to the sanitary system outside the building structure. There shall be no temporary toilet vaults or septic tanks installed without proper authorization from DPW-ED.
New Kitchen: Grease interceptors/traps shall be constructed to prevent fats, oils or greases from entering the sanitary sewer in concentrations greater than the allowable limit as set forth in Rules and Regulations No. 9 and shall be located so that they are easily accessible for cleaning, maintenance, and inspection. The installation of grease traps or interceptors shall comply with the requirements established by the City of El Paso A Sanitary Sewer Overflow (Sewage spill) shall be reported immediately to DPW regardless of volume.
SEWAGE SPILL CLEAN-UP:
1. Stop or mitigate the flow as soon as possible.
2. Contain the spill whenever possible.
3. Return as much of the spilled wastewater to the collection system or treatment facility as possible.
4. Remove and properly dispose of all solids.

5. Treat and disinfect the affected area as necessary (if using chemicals, be sure to follow the manufacturer's guidelines).
6. Act quickly to reduce any threat to human health and the environment.
7. Assess any impact to the environment by taking laboratory samples.
CONTACT: Rebecca Navarrette at rebecca.d.navarrette.civ@army.mil or (915)568-3472.

2.6.3.6. Haul Routes. The Contractor shall submit haul routes, spill prevention and contingency plans to the COR and DPW-ED for review and approval prior to start of work. Any costs associated with spill cleanup, decontamination, abatement, disposal, mitigation, etc., shall be borne by the Contractor.

2.6.3.7. Solid Waste & Recycling Programs. Proposed project shall generate waste streams from the demolition of building construction; however, it is not anticipated that the project will generate recyclable materials, i.e. paper, plastics, scrap metal, wood pallets and other eligible materials in large quantities. Generation of administrative / project management process can be handled with desk side recycling and waste containers. The Recycling Program can assist with desk side Recycling Containers, call 915-568-1537 for more information and availability.

2.6.3.7.1. General Prohibition. Any construction debris containing hazards or toxic substances such as lead, asbestos, mercury, polychlorinated biphenyls (PCB) or other known, identifiable materials shall not be disposed of in trash and recycling containers, but require special handling and disposal requirements. Hazardous materials or wastes such as oil, fuel, paints, lubricants, cleaning solvents, etc. are prohibited from being disposed of in trash and recycling containers. Violations of these prohibitions can subject the proponent and Contractor to clean contaminated facilities and containers, or reimburse the Government for cleaning contaminated facilities and containers. Furthermore, the prohibition of burying and burning any trash (hazardous or non-hazardous), chemicals and other disposable materials is strictly disallowed and illegal subjecting the Contractor, its subcontractors and the proponent to legal issues. The Government will seek reimbursement for the entire costs of cleaning, removing, mitigating contamination, and other actions to restore the area and resource to its near original condition

2.6.3.8. All recyclable / reusable waste and recycled materials shall be reported in the units of measure, pounds for diversion reporting purposes. Provide data to the Solid Waste and Recycling manager via COR.

2.6.3.9. Records & Data Reporting Requirements. All weight tickets and manifests for waste and diverted or recycled materials shall be submitted to the Government PM or COR. The Government PM or COR will provide the copies of these records to the DPW Environmental Division. Records can be emailed to the following organizational email: usarmy.bliss.id-readiness.mbx.environmental-compliance@mail.mil (display as: USARMY Ft Bliss ID-READINESS Mailbox Environmental Compliance).

2.6.3.10. Ground Contamination.

2.6.3.10.1. During ground disturbance or excavation, if any soil discoloration, stains, odors, rubbish, buried objects and/or any environmental concerns are uncovered, the Contractor shall suspend work immediately and notify the DPW-ED via the COR immediately of. Until the discovered materials can be properly identified or characterized and initiate mitigation actions, any potential waste shall be treated as hazardous until DPW-ED completes the corresponding characterization.

Cleanup and disposal of any encountered contaminated soil shall be coordinated with DPW-ED via the COR. Waste manifests shall use the Fort Bliss Environmental Protection Agency Identification Number. Only personnel appointed in writing by the Garrison Commander are authorized to sign manifests on behalf of Fort Bliss. The original manifests signed by the disposal facilities shall be provided to DPW-ED via the COR.

2.6.3.11. During construction activities, any accidental releases of hazardous materials such as fuel on the ground shall be reported to the Fort Bliss Fire Department at 911. Fort Bliss Hazardous Waste Field Services (HWFS) Contractor can provide cleanup and waste disposal support if the Contractor has established an account; all services provided by HWFS are fully reimbursable to the Government and its Contractor. The party responsible for the spill will be billed through the Fort Bliss Resource Management Office.

2.6.4. Natural Resources Program. All construction activities with potential to impact Natural Resources need approval from the DPW-E Division prior to activities.

2.6.4.1. Threatened and Endangered Species (T&E) and their Habitats. The project area must be cleared of T&E species, sensitive species, Locally Important Natural Resources (LINR) and their habitats prior to construction activities.

2.6.4.2. Migratory Bird Treaty Act. All construction activities with potential to remove vegetation during the migratory bird nesting season (February 15th through September 15th) need to have an avian nest search completed by a qualified biologist prior to activities to prevent the "take" of a protected species. Before any ground disturbance, a burrowing owl burrow survey needs to be completed if construction activities occur between March 1st and October 30th.

2.6.4.2.1. Electric. The electric company is required to ensure that all above ground transmission poles and lines (temporary and permanent) are compliant with Edison Electric Institute and Aviation Power Line Interaction Suggested Practices for Raptor Protection on Power lines, specifically for raptors since they utilize power poles on post and have the greatest wingspan. All equipment must be properly insulated and grounded, and adequately spaced to avoid raptor electrocutions. Bird deterrents or alternative perches need to be installed on poles and cross arms when line configurations do not allow for adequate wire separation to avoid avian electrocutions.

2.6.4.3. Invasive Plants. If invasive plant species are known to occur near the proposed action area, all earth moving equipment should be thoroughly washed prior to and before leaving the site to prevent both the introduction and spread of invasive plant species.

2.6.4.4. Fencing. Fenced areas need to include design option with a buried apron of chain-link fabric buried up to 24" and extending 48" outward to prevent animals from burrowing under the fence.

2.6.5. Pollution Prevention Act (PPA). Conduct cleaning and waste removal operations to comply with Federal and local environmental and anti-pollution regulations. Pollution (air, water, solid, toxics and hazardous waste) should be prevented or reduced at the source and pollution that cannot be prevented should be recycled in an environmentally safe manner, whenever feasible. If pollution cannot be prevented or recycled it should be treated in an environmental safe manner or released into the environment in an environmental safe manner as a last resort.

2.6.5.1. Dispose of the construction related wastewater off Government property in accordance with 40 CFR 403, state, regional, and local laws, and regulations.

2.6.5.2. Water discharges into the sewer system as a result of this project shall abide by the conditions and requirements of El Paso Water (EPW) Rules 9 and 15. No foreign items, construction debris, chemicals, nor oils shall be introduced into the sanitary sewer collection system.

2.6.6. Noise Control. The Contractor shall comply with all applicable state and local laws, ordinances, and regulations relative to noise control.

2.7. **Safety**. The Contractor shall provide a safe working environment for key consultants and all persons in his/her employ as prescribed by United States Army Corps of Engineers (USACE) Engineering Manual (EM) 385-1-1, "Safety and Occupational Health (SOH) Requirements Manual", 29 CFR part 1910 "Occupational Safety and Health Standards", 29 CFR part 1926 "Safety and Health Regulations for Construction", and all other applicable DoD, Army, Federal, State, and Local safety and health requirements. The Contractor shall be responsible for all damages to persons and property that occur in connection with the work and service under this contract, without recourse against the Government. The contractor is responsible for accident prevention and safety and shall establish and maintain an effective system.

2.7.1. DPW's PM shall be notified about accidents within an hour of the accident.

2.7.2. Activity Hazard Assessments (AHA) and the Accident Prevention Plan (APP) shall be developed by a "Competent Person" (EM 385-1-1 ,2-2. p and 2.4.c) and be signed by a representative of the prime Contractor's "corporate office authorized to obligate the company." The AHA and APP shall meet the minimum basic outline requirements contained in EM 385-1-1, 2-6 & 2-7. The AHA shall be task-specific and shall include work to be performed by sub-Contractors and measures to be taken by the Contractor to control hazards associated with materials, services, or equipment provided by suppliers. For a non-mandatory formatted outline of an AHA, see ENG Form 6206 (Activity Hazard Analysis, EM 385-1-1. 2-10. a). APP is a written site-specific SOH plan that documents project, contract, and job-specific potential hazards in the workplace, and the company policies, controls, and work practices that will be used to minimize those hazards. Follow the mandatory ENG Form 6293 (Accident Prevention Plan Worksheet, EM 385-1-1, 2-10. d). The APP must be submitted to the KO or COR for review and acceptance prior to the performance of any work. Unless otherwise approved, Quality Control personnel shall conduct and document daily safety inspections.

2.7.2.1. Accident Prevention Plan (APP)/Safety Plan. Contractor shall Prepare and submit an APP for approval no later than fifteen (15) days after contract award. Once reviewed and accepted by the KO, the APP and attachments will be enforced as part of the Contract. The Government considers the Prime Contractor to be the "controlling authority" for all work site safety and health of the subcontractors. Contractors are responsible for informing their subcontractors of the safety provisions under the terms of the Contract and the penalties for noncompliance, coordinating the work to prevent one craft from interfering with or creating hazardous working conditions for other crafts, and inspecting subcontractor operations to ensure that accident prevention responsibilities are being carried out. The SSHO must provide and maintain the APP and a log of signatures by each subcontractor foreman, attesting that they have read and understand the APP, and make the APP and log available on-site to the KO.

2.7.2.1.1. Disregarding the provisions of this Contract or the accepted APP is cause for stopping of work, at the discretion of the KO, until the matter has been rectified. Continuously review and amend the APP, as necessary, throughout the life of the Contract. Changes to the accepted APP must be made with the knowledge and concurrence of the KO, project superintendent, SSHO and QCM.

2.7.2.2. Activity Hazard Analysis (AHA). Before beginning each activity, task or Definable Feature of Work (DFOW) involving a type of work presenting hazards not experienced in previous project operations, or where a new work crew or subcontractor is to perform the work, the Contractor(s) performing that work activity must prepare an AHA. Submit the AHA for review and approval no later than fifteen (15) days after contract award and fifteen (15) days prior to the start of each new activity task, or DFOW. The Government reserves the right to require the Contractor to revise and resubmit the AHA if it fails to effectively identify the work sequences, specific anticipated hazards, site conditions, equipment, materials, personnel and the control measures to be implemented. AHAs must identify competent persons required for phases involving high risk activities, including confined entry, crane and rigging, excavations, trenching, electrical work, fall protection, and scaffolding.

2.7.3. [Army Radiation Any Contractor wishing to use, store, or possess radioactive materials or radioactive devices (e.g. nuclear soil density meters, X-Ray Fluorescence) shall require an Army Radiation Permit (ARP) before activities take place in the Installation. Contractor shall provide a letter requesting an ARP with supporting documentation (Army Regulation 385-10, 16-9. is available at http://armypubs.army.mil). The instructions are self-explanatory. To bring in radiation devices the request must be submitted at least thirty (30) calendar days prior to anticipated use. ARP shall be submitted through the DPW PM for review and approval by the Fort Bliss Safety Office.]

2.7.4. Federal Aviation Administration (FAA) Notice Requirements. The requirements for filing with the FAA for proposed structures vary based on a number of factors: height, proximity to an airport, location, and frequencies emitted from the structure, etc. For more details, please reference CFR Title 14 Part 77.9, Safe, Efficient Use, and Preservation of the Navigable Airspace. The FAA requires that Form 7460-1, Notice of Proposed Construction or Alteration, be submitted at least forty-five (45) days before or more either before the date the proposed construction is to begin, or the date an application for a construction permit is to be filed. For further information and to file the form, see https://oeaaa.faa.gov/oeaaa/external/portal.jsp.

2.7.5. Hot Work Permit. Contractor shall submit and obtain a written permit prior to performing "Hot Work" (welding, cutting, etc.) or operating other flame-producing/spark producing devices from the Fort Bliss Fire Department. A permit is required from the Explosives Safety Office for work in and around where explosives are processed, stored, or handled. Contractors are required to meet all criteria before a permit is issued. The Contractor shall provide at least two (2) twenty (20) pound ABC rated extinguishers for normal "Hot Work". All extinguishers shall be current inspection tagged, approved safety pin, and tamper resistant seal. It is also mandatory to have a designated FIRE WATCH for any "Hot Work" done at this activity. The Fire Watch shall be trained in accordance with NFPA 51B and remain on-site for a minimum of sixty (60) minutes after completion of the task or as specified on the hot work permit. All welding and cutting operations shall be accomplished in strict compliance with the requirements outlined in the National Fire Protection Association Standard, and the Department of the Army Corps of Engineering General Safety Requirement Manual EM 385-1-1. Prior to welding and/or cutting, or any other flame or spark producing operations, the Contractor or Subcontractor performing the work shall obtain a permit from the Post Fire Department. The permit may be obtained by calling 915-543-0019 to set an appointment for a Post Fire Department representative to go to the work

site and issue the permit. The personnel and equipment used for welding and cutting operations shall be at the work site when the Post Fire Department representative goes to issue the permit. A copy of each permit shall be retained at the project site, until work for which the permit was issued is completed. The Contractor or Subcontractor shall provide required equipment, materials, shields, extinguishers, sand, and other devices at each location where work of the type requiring a permit is conducted. The Contractor's personnel shall comply with the requirements of the Post Fire Prevention Standards and the Fire Chief. Permit samples and contact information will be provided for each task-order. For issuance of the Hot Work Permits, contact 915-270-1455.

2.7.6. Contractor shall abide by NFPA 101 Life Safety Code and NFPA 241 Standard for Safeguarding Construction, Alteration, and Demolition Operations at all times during construction.

2.8. **Quality Control (QC)**.

2.8.1. QC Program Requirements. Establish and maintain a QC system that complies with FAR 52.246-12 Inspection of Construction and as described in this section. The QC program consists of a QC Manager, a QC plan, a Coordination and Mutual Understanding Meeting, QC meetings, three phases of control, submittal review and approval, testing, and QC certifications and documentation necessary to provide materials, equipment, workmanship, fabrication, construction and operations which comply with the requirements of this contract. The QC program shall cover on-site and off-site work and shall be keyed to the work sequence. No work or testing may be performed unless the QCM is on the work site.

2.8.1.1. Preliminary Work Authorized Prior to Acceptance The only work that is authorized to proceed prior to the acceptance of the QC plan is mobilization of storage and office trailers, temporary utilities, and surveying.

2.8.1.2. Acceptance. Acceptance of the QC plan is required prior to the start of construction. The KO reserves the right to require changes in the QC plan and operations as necessary, including removal of personnel, to ensure the specified quality of work. The KO reserves the right to interview any member of the QC organization at any time in order to verify the submitted qualifications.

2.8.1.3. Notification of Changes Notify the KO, in writing, of any proposed change, including changes in the QC organization personnel, a minimum of seven (7) calendar days prior to a proposed change. Proposed changes shall be subject to the acceptance by the KO.

2.8.2. QCM. See the “Key Personnel” Section of this document for requirements.

2.8.3. Contractor Quality Control (CQC) Plan.

2.8.3.1. Requirements. The Contractor Quality Control Plan is to implement the requirements FAR 52.246-12 Inspection of Construction. Construction will be permitted to begin only after acceptance of the CQC Plan applicable to the particular feature of work to be started.

2.8.3.2. Submit a QC plan for approval in PDF format that covers construction-operations, both on-site and off-site, including work by Subcontractors fabricators, suppliers and purchasing agents. Include the following with a table of contents listing the major sections identified with tabs.

a. QC Organization. A chart showing the QC organizational structure and its relationship to the production side of the organization.

b. Name and Qualifications. (in resume format), duties, responsibilities and authorities for each person in the QC organization. Include the QCM for Contractors course certification required by the paragraph entitled "Construction Quality Management Training".

c. A copy of the letter to the QCM signed by an authorized official of the firm which describes the responsibilities and delegates sufficient authorities to adequately perform the functions of the QCM, including authority to stop work which is not in compliance with the Contract. Letters of direction to all other various quality control representatives outlining duties, authorities, and responsibilities will be issued by the QCM. Furnish copies of these letters to the KO.

d. Outside Organizations. A listing of outside organizations such as architectural and consulting engineering firms that will be employed by the Contractor and a description of the services these firms will provide.

e. Submittal Procedures and Initial Submittal Register. Procedures for scheduling, reviewing, certifying, approving and managing submittals including those of subcontractors, offsite fabricators, suppliers, and purchasing agents

f. Testing Laboratory information. Testing laboratory information required by the paragraphs "Accredited Laboratories" or "Testing Laboratory Requirements", as applicable. Control, verification, and acceptance testing procedures for each specific test to include the test name, specification paragraph requiring test, feature of work to be tested, test frequency, and person responsible for each test. (Laboratory facilities approved by the KO are required to be used.)

g. Testing Plan and Log. A Testing Plan and Log that includes the tests required, referenced by the specification paragraph number requiring the test, the frequency, and the person responsible for each test.

h. Procedures for tracking preparatory, initial, and follow-up control phases and control, verification, and acceptance tests including documentation.

i. Procedures for tracking construction deficiencies from identification through acceptable corrective action. Establish verification procedures that identified deficiencies have been corrected.

j. Documentation Procedures. Including Proposed Formats. Use Government formats.

k. List of Definable Features. A Definable Feature of Work (DFOW) is a task, which is separate and distinct from other tasks, has the same control requirements and is identified by different trades or disciplines, or it is work by the same trade in a different environment. Although each section of the specifications can generally be considered as a definable feature of work, there are frequently more than one definable features under a particular section. This list will be agreed upon during the coordination meeting. The list shall be cross-referenced to the Contractor's Construction Schedule and the specification sections.

For projects requiring a Progress Chart, the list of definable features of work shall include but not be limited to all items of work on the schedule.

l. Procedures for Performing Three Phases of Control. For each DFOW provide Preparatory and Initial Phase Checklists. Each list shall include a breakdown of quality checks that will be used when performing the quality control functions, inspections, and tests required by the contract documents. The preparatory and initial phases shall be conducted with a view towards obtaining quality construction by planning ahead and identifying potential problems.

2.8.3.3. Acceptance of Plan. Acceptance of the Contractor's plan is required prior to the start of construction. Acceptance is conditional and will be predicated on satisfactory performance during the construction. The Government reserves the right to require the Contractor to make changes in the Contractor Quality Control Plan and operations including removal of personnel, as necessary, to obtain the quality specified.

2.8.4. Contractor Quality Control Meetings.

2.8.4.1. After the start of construction, the Contractor QCM shall conduct Contractor Quality Control meetings once every two weeks at the work site with the superintendent and the foreman responsible for the ongoing and upcoming work. The Contractor QCM shall prepare the minutes of the meeting and provide a copy to the COR within two (2) working days after the meeting. As a minimum, the following shall be accomplished at each meeting:

a. Review the minutes of the previous meeting;
b. Review the schedule and the status of work and rework;
c. Review the status of submittals;
d. Review the work to be accomplished in the next two weeks and documentation required;
e. Resolve Contractor Quality Control and production problems (RFIs, etc.);
f. Address items that may require revising the Contractor Quality Control plan; and
g. Review Accident Prevention Plan (APP).

2.8.5. Contractor Quality Control Inspections.

2.8.5.1. The Contractor is responsible for performing or having performed all inspections and tests necessary to substantiate that the raw materials, components, intermediate assemblies, and end products furnished under this contract conform to contract requirements, including any applicable technical requirements for specified manufacturers' parts.

2.8.5.2. Inspection -- Dismantling, Demolition, or Removal of Improvements. Unless otherwise designated by the specifications, all workmanship performed under the contract is subject to Government inspection at all times and places where dismantling or demolition work is being performed. The Contractor shall furnish promptly, and at no increase in contract price, all reasonable facilities, labor, and materials necessary for safe and convenient inspection by the Government. The Government will perform inspections in a manner that will not unduly delay the work

2.8.5.2.1. The Contractor shall be responsible for damage to property caused by defective workmanship. The Contractor shall segregate and remove from the premises any unsatisfactory facilities, materials, and equipment used in contract performance, and replace them with satisfactory items

within seventy-two (72) hours of written notice. The Contractor and any surety shall be liable, to the extent specified in the contract for any damage or cost of repair or replacement.

2.8.5.3. Inspection of Construction. The Contractor shall maintain an adequate inspection system and perform such inspections that will ensure that the work performed under the contract conforms to contract requirements. The Contractor shall maintain complete inspection records and make them available to the Government.

2.8.5.3.1. Government inspections and tests are for the sole benefit of the Government and do not - Relieve the Contractor of responsibility for providing adequate quality control measures; Relieve the Contractor of responsibility for damage to or loss of the material before acceptance; Constitute or imply acceptance; or Affect the continuing rights of the Government after acceptance of the completed work.

2.8.5.3.2. The presence or absence of a Government inspector does not relieve the Contractor from any contract requirement, nor is the inspector authorized to change any term or condition of the specification without the KO's written authorization.

2.8.5.3.3. The Contractor shall promptly furnish all facilities, labor, and material reasonably needed for performing such safe and convenient inspections and tests as may be required by the KO. The Government will perform all inspections and tests in a manner that will not unnecessarily delay the work. Special, full size, and performance tests shall be performed as described in the contract.

2.8.5.3.4. The Contractor shall replace or correct work found by the Government not to conform to contract requirements, unless in the public interest the Government consents to accept the work with an appropriate adjustment in contract price. The Contractor shall promptly segregate and remove rejected material from the premises.

2.8.5.3.5. Unless otherwise specified in the contract, the Government will accept, as promptly as practicable after completion and inspection, all work required by the contract or that portion of the work the KO determines can be accepted separately. Acceptance shall be final and conclusive except for latent defects, fraud, gross mistakes amounting to fraud, or the Government's rights under any warranty or guarantee.

2.8.5.3.6. The Contractor shall not accept work that will create any change or modification to the contract from any person(s) but the KO, regardless of stature. The KO is the only one authorized to change or modify the contract.

2.8.5.4. Completion Inspections.

2.8.5.4.1. Punch-Out Inspection. Conduct an inspection of the work by the Contractor QCM near the end of the work, or any increment of the work established by a time stated in FAR 52.211-10 Commencement, Prosecution, and Completion of Work, or by the specifications. Prepare and include in the Contractor Quality Control documentation a punch list of items which do not conform to the approved drawings and specifications. Include within the list of deficiencies the estimated date by which the deficiencies will be corrected. Make a second inspection the Contractor QCM or staff to ascertain that all deficiencies have been corrected. Once this is accomplished, notify the Government that the facility is ready for the Government Pre-Final inspection.

2.8.5.4.2. Pre-Final Inspection. The Government will perform the pre-final inspection to verify that the facility is complete and ready to be occupied. A Government Pre-Final Punch List may be developed as a result of this inspection. Ensure that all items on this list have been corrected before notifying the Government, so that a Final inspection with the customer can be scheduled. Correct any items noted on the Pre-Final inspection in a timely manner. These inspections and any deficiency corrections required by this paragraph need to be accomplished within the time slated for completion of the entire work or any particular increment of the work if the project is divided into increments by separate completion dates.

2.8.5.4.3. Final Acceptance Inspection. The Contractor's Quality Control Inspection personnel, plus the superintendent or other primary management person, and the COR is required to be in attendance at the final acceptance inspection. Additional Government personnel including, but not limited to, those from Base/Post Civil Facility Engineer user groups, and major commands can also be in attendance. The final acceptance inspection will be formally scheduled by the KO based upon results of the Pre-Final inspection. Notify the KO at least fourteen (14) days prior to the final acceptance inspection and include the Contractor's assurance that all specific items previously identified to the Contractor as being unacceptable, along with all remaining work performed under the Contract, will be complete and acceptable by the date scheduled for the final acceptance inspection. Failure of the Contractor to have all contract work acceptably complete for this inspection will be cause for the KO to bill the Contractor for the Government's additional inspection cost in accordance FAR 52.246-12 Inspection of Construction

2.8.6. Documentation: Maintain current records providing factual evidence that required quality control activities and tests have been performed. Include in these records the work of subcontractors and suppliers on an acceptable form that includes, as a minimum, the following information:

a. The name and area of responsibility of the Contractor/Subcontractor.
b. Operating plant/equipment with hours worked, idle, or down for repair.
c. Work performed each day, giving location, description, and by whom.
d. Test and control activities performed with results and references to specifications/drawings requirements. Identify the control phase (Preparatory, Initial, Follow-up). List of deficiencies noted, along with corrective action.
e. Quantity of materials received at the site with statement as to acceptability, storage, and reference to specifications/drawings requirements.
f. Submittals and deliverables reviewed, with Contract reference, by whom, and action taken.
g. Offsite surveillance activities, including actions taken.
h. Job safety evaluations stating what was checked, results, and instructions or corrective actions.
i. Instructions given/received and conflicts in plans and specifications.
j. Number of personnel working.
k. Weather conditions.

2.8.7. Notification of Nonconformance. The KO will notify the Contractor of any detected noncompliance with the foregoing requirements. Take immediate corrective action after receipt of such notice. Such notice, when delivered to the Contractor at the work site, will be deemed sufficient for the purpose of notification. If the Contractor fails or refuses to comply promptly, the KO can issue an order stopping all or part of the work until satisfactory corrective action has

been taken. No part of the time lost due to such stop orders will be made the subject of claim for extension of time or for excess costs or damages by the Contractor.

2.9. **Security**.

2.9.1. Security Requirements. Contractor personnel (including sub-Contractors) who are assigned to work in a secure facility shall be escorted by the activity that owns the secure facility.

2.9.2. Physical Security. The Contractor shall be responsible for safeguarding all Government equipment, information and property provided for Contractor use IAW AR 190-13, The Army Physical Security Program. At the close of each work period, Government facilities, equipment and materials shall be secured by the Contractor.

2.9.3. Key Control. The Contractor shall establish and implement methods of making sure all keys/key cards issued to the Contractor by the Government are not lost or misplaced and are not used by unauthorized persons.

2.9.3.1. In the event keys, other than master keys, are lost or duplicated, the Contractor shall, upon direction of the KO, re-key or replace the affected lock or locks; however, the Government, at its option, may replace the affected lock or locks or perform re-keying. When the replacement of locks or re-keying is performed by the Government, the total cost of re-keying or the replacement of the lock or locks shall be reimbursed by the Contractor. In the event a master key is lost or duplicated, all locks and keys for that system shall be replaced by the Government and the total cost reimbursed by the Contractor. Any Government property stolen or damaged in association with keys being duplicated, misplaced, or lost by the Contractor personnel, shall be reimbursed to the Government.

2.9.3.2. The Contractor shall prohibit the use of Government issued keys/key cards by any person other than the Contractor's employees. The Contractor shall prohibit the opening of locked areas by Contractor employees to permit entrance of persons other than Contractor employees engaged in the performance of assigned work in those areas, or personnel authorized entrance by the KO.

2.9.3.3. The Contractor shall establish and implement methods of ensuring that all lock combinations are not revealed to unauthorized persons. The Contractor shall ensure that lock combinations are changed when personnel having access to the combinations no longer have a need to know such combinations. These procedures shall be included in the Contractor's Quality Control Plan.

2.9.4. Security of Classified Items, Systems and Information. The Contractor, as a general rule, shall not have access to classified information; however, should classified documents fall into the possession of the Contractor, the Contractor shall immediately contact the COR for disposition instructions.

2.9.5. Security of Staging Area. If the Contractor elects to utilize the storage area made available by the Government, the Contractor shall be responsible for constructing a fence around the area subject to the approval of the KO and at the Contractor's expense. The Contractor shall provide and install a sign on the non-secure side of the storage entrance identifying the Contractor and POCs. The installation of this fence and sign does not relieve the Contractor from responsibilities. Only materials to be used under the contract are authorized for storage. The Contractor shall receive fourteen (14) calendar day notice of changes in storage area. Do not place or store trailers, materials, or equipment outside the fenced area unless such trailers, materials, or equipment are

assigned a separate and distinct storage area by the Directorate of Public Works (DPW) Master Planning office away from the vicinity of the construction site but within the installation boundaries. Trailers, equipment, or materials must not be open to public view with the exception of those items which are in support of ongoing work on any given day. Do not stockpile materials outside the fence in preparation for the next day's work. Park mobile equipment, such as tractors, wheeled lifting equipment, cranes, trucks, and like equipment within the fenced area at the end of each work day. Any alterations to facilities shall be approved prior in writing and property shall be returned to its original condition prior to completion of this contract.

2.9.5.1. Procedures for staging equipment shall be coordinated with DPW COR and approved by the KO prior to the initiation of work. Staging and laydown area is typically provided as a portion of the construction foot print. If the Contractor requires space in addition to or outside of the provided footprint, the Contractor shall submit a Staging and Laydown Plan with the applicable permit request documentation.

2.9.6. Antiterrorism / Operations Security (AT-OPSEC).

2.9.6.1. AT Level I Training. This standard language is for contractor employees with an area of performance within an Army-controlled installation, facility, or area. All contractor employees, including subcontractor employees, requiring access to Army installations, facilities, and controlled access areas shall complete AT Level I awareness training within 30 calendar days after contract start date or effective date of incorporation of this requirement into the contract, whichever is applicable. The contractor shall submit certificates of completion for each affected contractor employee and subcontractor employee to the COR or to the contracting officer, if a COR is not assigned, within 5 calendar days after completion of training by all employees/subcontractor personnel. AT Level I training is available at https://jko.jten.mil/courses/AT-level1/launch.html

2.9.6.2. Access and general protection/security policy and procedures. This standard language is for contractor employees with an area of performance within an Army-controlled installation, facility, or area. Contractor and all associated subcontractor employees shall provide all information required for background checks to meet installation access requirements to be accomplished by the installation Provost Marshal Office, Director of Emergency Services, or Security Office. Contractor workforce must comply with all personal identity verification requirements (CFR clause 52.204-9, Personal Identity Verification of Contract Personnel) as directed by DoD, HQDA and/or local policy. In addition to the changes otherwise authorized by the changes clause of this contract, should the Force Protection Condition (FPCON) at any individual facility or installation change, the Government may require changes in contractor security matters or processes.

2.9.6.3. For Contractors requiring CAC. Before CAC issuance, the Contractor employee requires, at a minimum, a favorably adjudicated National Agency Check with Inquiries (NACI) or an equivalent or higher investigation in accordance with Army Directive 2014-05. The contractor employee will be issued a CAC only if duties involve one of the following: (1) both physical access to a DoD facility and access, via logon, to DoD networks on-site or remotely; (2) remote access, via logon, to a DoD network using DoD-approved remote access procedures; or (3) physical access to multiple DoD facilities or multiple non-DoD federally controlled facilities on behalf of the DoD on a recurring basis for a period of 6 months or more. At the discretion of the sponsoring activity, an initial CAC may be issued based on a favorable review of the FBI fingerprint check and a successfully scheduled NACI at the Office of Personnel Management.

2.9.6.4. For Contractors that do not require a CAC, but require access to a DoD facility or installation. Contractor and all associated subcontractor employees shall comply with adjudication standards and procedures using the National Crime Information Center Interstate Identification Index (NCIC-III) and Terrorist Screening Database (Army Directive 2014-05/AR 190-13); applicable installation, facility and area commander installation and facility access and local security policies and procedures (provided by Government representative); or, at OCONUS locations, in accordance with status-of-forces agreements and other theater regulations.

2.9.6.5. **AT Awareness Training for Contractor Personnel Traveling Overseas**. This language required US based contractor employees and associated subcontractor employees to make available and to receive Government provided area of responsibility (AOR)-specific AT awareness training as directed by AR 525-13. Specific AOR training content is directed by the combatant commander, with the unit ATO being the local point of contact.

2.9.6.6. **iWATCH Army Training**. The contractor and all associated subcontractors shall brief all employees on the local iWATCH Army program (training standards provided by the requiring activity ATO).This locally developed training will be used to inform employees of the types of behavior to watch for and instruct employees to report suspicious activity to the COR. This training shall be completed within 30 calendar days of contract award and within 15 calendar days of new employees commencing performance, with the results reported to the COR NLT 30 calendar days after contract award.

2.9.6.7. **Army Training Certification Tracking registration for contractor employees who require access to government information systems**. All contractor employees with access to a Government info system must be registered in the system of record at commencement of services, and must successfully complete the DOD Information Assurance Awareness prior to access to the information system and then annually thereafter.

2.9.6.8. **For contracts that require a formal OPSEC program.** The contractor shall develop an OPSEC Standing Operating Procedure (SOP)/Plan within 90 calendar days of contract award, to be reviewed and approved by the responsible Government OPSEC officer. This plan will include a process to identify critical information, where it is located, who is responsible for it, how to protect it and why it needs to be protected. The contractor shall implement OPSEC measures as ordered by the commander. In addition, the contractor shall have an identified certified Level II OPSEC coordinator per AR 530-1.

2.9.6.9. **For contracts that require OPSEC Training**. Per AR 530-1, Operations Security, the contractor employees must complete Level I OPSEC Awareness training. New employees must be trained within 30 calendar days of their reporting for duty and annually thereafter.

2.9.6.10. **For IA/IT training.** All contractor employees and associated subcontractor employees must complete the DoD IA awareness training before issuance of network access and annually thereafter. All contractor employees working IA/IT functions must comply with DoD and Army training requirements in DoDD 8570.01, DoD 8570.01-M and AR 25-2 within six months of appointment to IA/IT functions.

2.9.6.11. **For IA/IT certification**. Per DoD 8570.01-M, DFARS 252.239.7001 and AR 25-2, the contractor employees supporting IA/IT functions shall be appropriately certified upon contract award. The baseline certification as stipulated in DoD 8570.01-M must be completed upon contract award.

2.9.6.12. **For contractors authorized to accompany the force.** DFARS Clause 252.225-7040, Contractor Personnel Authorized to Accompany U.S. Armed Forces Deployed Outside the United States, shall be used in solicitations and contracts that authorize contractor personnel to accompany US Armed Forces deployed outside the US in contingency operations; humanitarian or peacekeeping operations; or other military operations or exercises, when designated by the combatant commander. The clause discusses the following AT/OPSEC related topics: required compliance with laws and regulations, pre-deployment requirements, required training (per combatant command guidance), and personnel data required.

2.9.6.13. **For Contract Requiring Performance or Delivery in a Foreign Country**, DFARS Clause 252.225-7043, Antiterrorism/Force Protection for Defense Contractors Outside the US. The clause shall be used in solicitations and contracts that require performance or delivery in a foreign country. This clause applies to both contingencies and non-contingency support. The key AT requirement is for non-local national contractor personnel to comply with theater clearance requirements and allows the combatant commander to exercise oversight to ensure the contractor' compliance with combatant commander and subordinate task force commander policies and directives.

2.9.6.14. **For contracts that require handling or access to classified information.** Contractor shall comply with FAR 52.204-2, Security Requirements. This clause involves access to information classified "Confidential," "Secret," or "Top Secret" and requires contractors to comply with (1) The Security Agreement (DD Form 441), including the National Industrial Security Program Operating Manual (DoD 5220.22-M); (2) any revisions to DOD 5220.22-M, notice of which has been furnished to the contractor. A DD Form 254, DoD Contract Security Classification Specification must be completed for both solicitation and award phases for contracts requiring access to classified material

2.9.6.15. If secure telecommunication requirements apply, include clause 252.239-7016 and follow guidance at 239.74.

2.9.6.16. If covered system support requirements apply, include provision 252.239-7017 into the solicitation, clause 252.239-7018 into the contract, and follow guidance at 239.73.

2.9.6.17. **Controlled Unclassified Information (CUI)**. Include DFARS clause 252.204-7012, which requires the contractor to comply with NIST 800-171. Also include DFARS provision 252.204-2019 into solicitations. Acquisition officials should follow procedures outlined in DFARS 204.73 and verify vendors have an adequate NIST SP 800-171 summary assessment score within the Supplier Performance Risk System (within PIEE).

2.9.6.18. **Threat Awareness Reporting Program**. For all contractors with security clearances. Per AR 381-12 Threat Awareness and Reporting Program (TARP), contractor employees must receive annual TARP training by a CI agent or other trainer as specified in 2-4b.

2.10. **Submittals/ Deliverable Requirements.**

2.10.1.1. Contractor shall provide submittals and deliverables as indicated herein, contract specifications, task-order construction documents, and as required by KO, COR, and DPW. The Contractor shall provide submittals for each project on TRADOC FORM 928-R-E along with the ENG FORM 4025-R, Transmittal of Shop Drawings, Equipment Data, Material Samples, or Manufacturer's

Certificates of Compliance form, the ESD CB Submittal-Log and the SF 1413 Statement and Acknowledgement for Subcontractors. All submittals must be provided to the Government for approval. At a minimum, submittals shall include material sample, manufacturer's product installation and maintenance guides, Safety Data Sheet (SDS), manufacturer's certificates of compliance/conformance, and warranty literature. The Contractor shall provide documentation that ascertains that any equipment proposed as 'or equal' to that specified by the SOW meets all essential characteristics described by the Government. **Government review times for submittals and Request for Information (RFI) is 14 calendar days**.

2.10.1.2. Provide submittals in electronic format and compile the submittal file as a single, complete document, to include the Transmittal Form. Name the electronic submittal file specifically according to its contents, and coordinate the file naming convention with the KO. Electronic files must be of sufficient quality that all information is legible. Use PDF as the electronic format, unless otherwise specified or directed by the KO. Generate PDF files from original documents with bookmarks so that the text included in the PDF file is searchable and can be copied. If documents are scanned, optical character resolution (OCR) routines are required. Index and bookmark files exceeding 30 pages to allow efficient navigation of the file. When required, the electronic file must include a valid electronic signature or a scan of a signature. Engineering Forms can be found at https://www.publications.usace.army.mil/USACE-Publications/Engineer-Forms/.

2.10.1.3. The naming convention for submittals shall be, Description of Submittal_YYYY-MM-DD_Contract Number. The submittal shall be sent via email with the following subject line naming convention, FYXX_Facility_W.O._Contract Number_Project_Description – Email Description.

2.10.1.4. Project Submittal Register. Contractor shall submit a Submittal Register fourteen (14) days after NTP and prior to submitting any other submittals for review and approval. Review and approval of the Project Submittal Register shall be required prior to submission of other submittals herein. It shall outline lead times and a list of submittals required for the project. Contractor shall use the latest version of ENG FORM 4288-R and can be found at https://www.publications.usace.army.mil/USACE-Publications/Engineer-Forms/ .Once reviewed and accepted by the COR, the Submittal Register, and attachments will be enforced as part of the Contract and shall include the following but not limited to:

Procedures for scheduling, reviewing, certifying, and managing submittals, including those of Subcontractors, offsite fabricators, suppliers, and purchasing agents Subcontractors, consultants, offsite fabricators, suppliers, materials, and purchasing agents.

2.10.2. Pre-Construction Submittals / Deliverables Package. After ENG Form 4288-R Submittal Register is approved by the COR, Pre-Construction submittals that are required prior to the start of work shall be submitted within fourteen (14) calendar days of NTP unless specified elsewhere herein. Pre-construction submittals required to be submitted by the Contractor to COR and copied to KS and KO for review and approval prior to the start of construction (work) shall include the following but not limited to (see specifications for additional submittals):

- Approved Equal
- APP/Safety Plan (See Safety Section)
- AHA (See Safety Section)
- Construction Phasing Plan
- Construction Project Information Signage.

- Construction Schedule
- Environmental Plans and Permits (See Environmental Section)
- Equal or Better Plan
- Equipment List and Building Inventory
- FAA Notice Requirements. (See Safety Section)
- Fire Prevention Construction Guide Acknowledgement Receipt
- Force Protection (See Security Section)
- Haul Route Plan (See Environmental Section)
- Hazardous Material Abatement (See Environmental Section)
- Material Certification
- Organization Chart
- Payment and Performance Bonds
- Photographic Record Prior to Construction
- PM and Alternate PM Designation
- Project Management Plan
- Quality Control Plan (See Quality Control Section.)
- Staging and Laydown Area Plan (See Security Section)
- Training and Certification Documentation
- (List any other submittals that COR needs within 14 calendar days after NTP)

2.10.3. Construction Submittals/Deliverables Package. The following submittals shall be provided by **the Contractor within (30) calendar days after NTP** to COR with a courtesy copy to KS and KO:

- List of subcontractors
- Material Submittals
  - If the Contractor cannot deliver the material submittals within (30) calendar days after NTP, the Contractor shall notify the delay in writing with justification to COR, KS and KO for KO approval for extension.
  - If Contractor is deviating the material from the SOW requirements, the Contractor shall submit in writing the reason for any deviations and annotate such deviations on an RFI to COR, KS and KO for response prior to submission.
  - If material submittal has been rejected more than 3 times, the Contractor shall request a meeting to COR, KS and KO to resolve the concern.
- Documentation of Contractor and subcontractors training certificates
- Status of Site Clearance and Line Marking Request (SCLMR) dig permit
- Status of SWPPP (if applicable)
- (Other submittals to be added by COR)

2.10.3.1. Approved Equal . Contractor shall Prepare and submit an Equal or Better Plan if required. Once reviewed and accepted by the KO, the Equal or Better Plan and attachments will be enforced as part of the Contract.

2.10.3.2. Construction Phasing Plan. Contractor shall Prepare and submit a Construction Phasing Plan when required. Once reviewed and accepted by the KO, the Construction Phasing Plan and attachments will be enforced as part of the Contract.

2.10.3.3. Construction Project Information Signage. Contractor shall provide and install the Construction Project Information Signage. Contractor shall submit the construction project signage package for COR approval, secure and maintain the signs during construction, and remove the signs from the job site upon completion of the project. Repair any affected surfaces after removing the signs. The construction project sign package consists of two signs: one for project identification and the other to show the on-the-job safety performance of the Contractor. Project identification shall contain the following elements: Army logo, Directorate of Public Works (DPW) logo, agency name, installation name, contract number, and Contractor information. For additional information for sign placement, please reference Manual on Uniform Traffic Control Devices (MUTCD). COR will indicate the location signage once submittal is approved.

2.10.3.4. Construction Schedule. Contractor shall Prepare and submit a Construction Schedule no later than five (5) days after NTP for approval, as specified herein, pursuant to FAR Clause 52.236-15 Schedules for Construction Contracts. Once reviewed and accepted by the KO, the Construction Schedule and attachments will be enforced as part of the Contract. The construction schedule shall detail the work to be done for each discipline and the sequence in which the work will be accomplished. The schedule will indicate time frames, dates, and level of effort required for each task such as the number of crews required and the number of workers in each crew, the effect of each phase on the following phase and the impact if not complete before starting the next action. Subcontractors and suppliers working on the project must also contribute in developing and maintaining an accurate Project Schedule. The schedule shall be in the form of a progress Gantt chart of suitable scale to indicate appropriately the percentage of work scheduled for completion by any given date during the period. Chart shall show work pending in orange and work completed in Green. Use the Critical Path Method (CPM) of network calculation to generate all Project Schedules. Construction Schedule shall be updated every two (2) weeks.

2.10.3.4.1. If the Contractor fails to submit a schedule within the time prescribed, the Contracting Officer may withhold approval of progress payments until the Contractor submits the required schedule. The Contractor shall enter the actual progress on the chart as directed by the Contracting Officer, and upon doing so shall immediately deliver three copies of the annotated schedule to the Contracting Officer. If, in the opinion of the Contracting Officer, the Contractor falls behind the approved schedule, the Contractor shall take steps necessary to improve its progress, including those that may be required by the Contracting Officer, without additional cost to the Government. In this circumstance, the Contracting Officer may require the Contractor to increase the number of shifts, overtime operations, days of work, and/or the amount of construction plant, and to submit for approval any supplementary schedule or schedules in chart form as the Contracting Officer deems necessary to demonstrate how the approved rate of progress will be regained. Failure of the Contractor to comply with the requirements of the Contracting Officer under this clause shall be grounds for a determination by the Contracting Officer that the Contractor is not prosecuting the work with sufficient diligence to ensure completion within the time specified in the contract. Upon making this determination, the Contracting Officer may terminate the Contractor's right to proceed with the work, or any separable part of it, in accordance with the default terms of this contract.

2.10.3.5. Environmental Plans and Permits. See Environmental Section

2.10.3.6. Organizational Chart. Contractor shall Prepare and submit an Organizational Chart no later than seven (7) days after contract award. Once reviewed and accepted by the KO, the Organization Chart and attachments will be enforced as part of the Contract.

2.10.3.7. Payment and Performance Bonds. Contractor shall submit Payment and Performance Bonds no later than ten (10) days after contract award. The notice to proceed shall be provided by the KO once it has been reviewed and accepted.

2.10.3.8. Photographic Record Prior to Construction. Contractor shall submit a Photographic Record of the existing construction area. Once reviewed and accepted by the KO, the Photographic Record will be enforced as part of the Contract. Photographic Record shall be submitted as one PDF document.

2.10.3.9. Staging and Laydown Plan. See Security Section.

2.10.3.10. Project Submittal Register. Contractor shall submit a Submittal Register within seven (7) days of NTP and prior to submitting any other submittals for review and approval. Review and approval of the Project Submittal Register shall be required prior to submission of other submittals herein. It shall outline lead times and a list of submittals required for the project. Contractor shall use the latest version of ENG FORM 4288-R and can be found at https://www.publications.usace.army.mil/USACE-Publications/Engineer-Forms/ .Once reviewed and accepted by the KO, the Submittal Register and attachments will be enforced as part of the Contract and shall include the following but not limited to:

Procedures for scheduling, reviewing, certifying, and managing submittals, including those of Subcontractors, offsite fabricators, suppliers, and purchasing agents Subcontractors, consultants, offsite fabricators, suppliers, materials, and purchasing agents.

2.10.3.11. Temporary Traffic Control (TTC) Plan. Contractor shall submit a TTC and once reviewed and accepted by the KO, the TTC and attachments will be enforced as part of the Contract. A TTC concept is provided as an attachment, however, the Contractor is still responsible for the submission and approval of a TTC plan. The Contractor shall coordinate the TTC plan with the Department of Emergencies Services (DES), Directorate of Plans Training Mobilization and Security (DPTMS), Balfour Beatty Communities (BBC), Fort Bliss Safety Office and impacted facilities via the COR. Submit plans for future phases of construction a minimum of thirty (30) days before start of that construction phase to allow review and resubmittal, if necessary, and public notification. Do not begin construction on any given phase before receiving written acceptance. Failure to submit the traffic control plans within the specified time frames will not be justification for additional working days. Failure to adequately address comments in any required resubmittal also will not justify additional working days. Reference the Traffic Control attachment. All Traffic signs and traffic control devices shall comply with the latest edition of the MUTCD. Contractor shall provide, install and maintain all required Traffic Control Devices during the prosecution of all work shown in the drawings.

2.10.3.11.1. Traffic Control shall allow for two-way traffic to continue. When traffic must be rerouted or controlled to accomplish the work, provide necessary warning signs, flag persons, and related equipment for the safe passage of vehicles.

2.10.3.11.2. Contractor shall notify the KO five (5) working days in advance before any demolition work is started to ensure traffic control measures are adequate and coordination is accomplished with other activities on the installation in a timely manner.

2.10.3.11.3. Informational Traffic Signs. Contractor shall provide and install informational traffic signs on all road construction projects to alert motorists of upcoming construction dates. Signs shall be properly secured to ensure they are not affected by weather conditions. Signs shall be installed 30 days prior construction and shall be located on adjacent roads approaching construction site. Signs shall indicate: "Road will be closed on X date" or "Road will be partially closed on X date". All temporary signs shall comply with the latest edition of the Manual on Uniform Traffic Control Devices (MUTCD).

2.10.3.11.4. Notify DES Dispatch of any lane closures when project starts at 915-744-9545.

2.10.3.11.5. Training and Certification Documentation Requirements. Contractor shall submit a Training and Certification Documentation Requirements along with a list of the personnel with the Training and Certification **within (30) calendar days after NTP** to COR with a courtesy copy to KS and KO. The list of personnel shall include their first name, last name, company, and training or certification being provided. Once reviewed and accepted by the KO, the Training and Certification Documentation and attachments will be enforced as part of the Contract. Training includes, but is not limited to: Antiterrorism / Operations Security (AT-OPSEC) requirements such as AT Level I training, iWatch training and OPSEC Training, Asbestos Awareness, OSHA 30 hour training for Construction, Heavy Equipment Certifications, Explosive ordinance training (for projects are Ranges), Airfield training (for projects at Airfield), etc. (See Safety Section for additional requirements). Contractor shall follow the latest version of the Safety & Health Requirements Manual (EM 385-1-1) which is available at: https://www.publications.usace.army.mil/Portals/76/EM%20385-1-1%20_EFFECTIVE%2015March2024.pdf. Documents must be updated and provided if there's a change in any change in personnel.

2.10.3.12. Progress Payment Requirement. Contractor shall submit a progress payment based on cost per FAR 32.5. Progress Payment Request shall identify the percentage (%) of construction completed in the "Contract Progress Payment Request Form". Contractor shall submit the Progress Payment Request Form along with Certified Payrolls to COR, KS and KO by email. Payment Application approval including review and signature by the KO, is required prior to Contractor submitting Invoice through WAWF.

2.10.3.12.1. To receive progress payments the Contractor shall provide the following but not limited to:

- Architectural Mockups
- Construction and Demolition (C&D) Waste Management Report (See Environmental Section)
- Construction Progress Report weekly
- Field Reports
- Laboratory Certificates (See Quality Control section)
- Manufacturer Instructions (See attached Specifications)
- Material Delivery Documents (See attached Specifications)
- Material Submittal Form
- Meeting Minutes and Agenda (See Quality Control)
- Photographic Record
- Product Data
- Test Reports and Lab Tests

- Utility Coordination Shut-down Request

2.10.3.13. Construction Progress Report Weekly. During construction, a Weekly Report shall be provided to COR, KS and KO by email on a Monday containing the daily reports for the previous week.

2.10.3.14. Material Submittal Form. See Specifications.

2.10.3.15. Meeting Minutes and Agenda. See Quality Control.

2.10.3.16. Photographic Record Requirements. Photographs shall capture area of work and elements being affected by scope. Record shall document initial construction area, features of work, sequence and progress of construction, and final product with site condition. Photographs shall be provided weekly and upon request by COR.

2.10.3.17. Shop Drawings. See attached Specifications.

2.10.3.18. Test Reports and Lab Tests. The Contractor shall, without additional expense to the Government, be responsible for testing performed, including but not limited to all testing, labs, materials cost, fees and related services as stated in the specifications [from the Paving IDIQ contract]. Submit electronic copies of field test reports and lab results, within 48 hours after completion unless noted otherwise. By prominent notation, indicate each report in the submittal. Indicate the specification number and paragraph number to which each report pertains.

2.10.3.19. Close-out Submittals / Deliverables Package. The Contractor shall have thirty (30) calendar days from the date of the final inspection to provide close-out deliverables. Final payment is pending approval until final Inspection terms and conditions to include submittal are received and approved by the COR.

Ensure that all documents submitted to Government include the facility number, contract number and work order element.

- Absence of hazardous materials certification.
- Air Monitoring and Clearance Reports (See Environmental Section)
- As-Built Drawings.
- As-Built Record of Equipment and Materials.
- Certification of Asbestos Free Construction. (See Environmental Section)
- O&M Manuals & LEED notebook
- Toxic Substance Free Review Certification (See Environmental Section)
- Waste Manifest (See Environmental Section)
- Warranty Letter (Two Hard copies and two electronic copies in CD). Provide these documents before the final inspection.

2.10.3.20. Absence of hazardous materials certification. Certification shall state that "all building materials used in the construction, renovation or remodeling contains no toxic substances, i.e. asbestos, lead, or other regulated toxic substances. The letter shall have attached all safety data sheets (SDS) for each material used in the construction project and the new or existing floor plan where construction took place. The list of materials are examples and is not all inclusive, dry wall or wallboard, joint compounds, flooring or molding mastics or adhesives, floor tile of any material

to include ceramic and carpet, caulking and sealants, roofing materials, paint primer and top coat, thermal insulations, pipe wrap, pipe material, and pipe primers and glues."

2.10.3.21. As-Built Drawings. As-built drawings are the marked-up drawings, maintained by the Contractor on-site, that depict actual conditions and deviations from the Contract Documents. These deviations and additions may result from coordination required by, but not limited to: contract modifications; official responses to submitted Requests for Information (RFI's); direction from the KO; design that is the responsibility of the Contractor, and differing site conditions. Maintain the as-builts throughout construction as red-lined hard copies on site and red-lined drawings. These files serve as the basis for the creation of the record drawings. As-built drawings shall include any survey that was produced as part of the project. See attached " As-Built Requirements Memo for additional submittal requirements.

2.10.3.22. As-Built Record of Equipment and Materials. Include, as applicable, the following for each piece of equipment installed: description of item, location (by room number), model number, serial number, capacity, name and address of manufacturer, name and address of equipment supplier, condition, spare parts list, manufacturer's catalog, and warranty.

2.10.3.23. DD Form 1354. A DD Form 1354 will be required for the transfer and acceptance of accountability of a newly constructed real property asset or an improvement to a real property asset. Submit an accounting of all installed property with DD FORM 1354. For additional guidance see UFC 1-300-08 Criteria for Transfer and Acceptance. Contractor shall submit DD Form 1354 three weeks prior to Close-out. Interim DD 1354 must be submitted twenty-one (21) days prior to final inspection.

2.10.3.24. O&M Manuals. Provide manufacturer's schedule for routine preventive maintenance, inspections, condition monitoring (predictive tests) and adjustments required to ensure proper and economical operation and to minimize repairs. Provide instructions stating when the systems should be retested. Provide manufacturer's projection of preventive maintenance work-hours on a daily, weekly, monthly, and annual basis including craft requirements by type of craft. For periodic calibrations, provide manufacturer's specified frequency and procedures for each separate operation.

2.10.3.25. Warranty Letter. Contractor shall submit a warranty certificate(s) and warranty documentation letter that summarizes the warranty management plan, the start & end date of warranty, contract number, and Contractor's contact information.

2.10.3.25.1. In addition to any other warranties in this contract, the Contractor warrants, except as provided in paragraph 1 of contract clause FAR 52.246-21, that work performed under this contract conforms to the contract requirements and is free of any defect in equipment, material, or workmanship performed by the Contractor or any Subcontractor or supplies at any tier.

This warranty shall continue for a period of one (1) year from the date of final acceptance of the work. If the Government takes possession of any part of the work before final acceptance, this warranty shall continue for a period of one (1) year from the date that the Government takes possession.

2.10.3.25.2. The Warranty Management plan shall be in narrative form and contain sufficient detail to render it suitable for use by future maintenance and repair personnel, whether tradesmen, or of engineering background, not necessarily familiar with this contract. The plan shall be assembled

in a binder and shall be turned over to the Government as discussed in the closeout meeting. The construction warranty period shall begin on the date of project acceptance and shall continue for the full product warranty period.

PART 3 - APPLICABLE PUBLICATIONS AND FORMS.

The Contractor (to include Subcontractors) shall abide by all, and most current, applicable state and federal regulations, publications, manuals, and local policies and procedures involving architectural, civil, structural, electrical, environmental, and mechanical disciplines associated with the design and construction of a specific project.

The following list is an overview of typical publications used for this project, not inclusive:

- American National Standards Institute (ANSI), https://www.ansi.org/
- American Society of Safety Engineers (ASSE), http://www.asse.org/
- American Society for Testing and Materials (ASTM), https://www.astm.org/
- Army Regulations (AR), http://www.apd.army.mil/
- Americans with Disabilities Act www.ada.gov
- Code of Federal Regulations, www.ecfr.gov
- Design and Control of concrete Mixtures (PCA)
- DoD 5200.08-R, Physical Security Program, http://www.cac.mil/
- Eng_Form_6293 Accident Prevention Plan Worksheet, https://www.publications.usace.army.mil/USACE-Publications/Engineer-Forms/
- Fort Bliss Installation Design Guide (IDG), http://www.bliss.army.mil/
- Fort Bliss Energy, Water, & Waste Program
- International Code Council (ICC) Codes, https://www.iccsafe.org/
- Texas Manual of Uniform Traffic Control Devices, https://www.txdot.gov/
- National Fire Protection Association (NFPA) Codes, http://www.nfpa.org/
- The Society for Protective Coatings (SSPC) Standards, http://www.sspc.org/
- Texas Administrative Code, Title 25, Part 1, Chapter 296, TEXAS ASBESTOS HEALTH PROTECTION, https://www.sos.texas.gov/tac/index.shtml
- Unified Facilities Criteria (UFC), https://www.wbdg.org/
- U.S. General Services Administration (GSA)
- USACE Safety and Occupational Health (SOH) Requirements Manual, EM 385-1-1, http://www.usace.army.mil/
- USACE Survey Markers and Monumentation Manual, EM 1110-1-1002, https://www.publications.usace.army.mil/Portals/76/Publications/EngineerManuals/EM_1110-1-1002.pdf