

27 November 2017

**STATEMENT OF WORK**  
**Repair TACAN Structure Foundation (Bldg. 6655)**  
**Project # MAHG15-1040 WO # 77297**  
**KEESLER AFB, MISSISSIPPI**

**1.0 Introduction:**

Keesler AFB has a requirement for a contractor to provide repairs for the settling foundation with foundation concrete lifting ('mudjacking' or 'slab jacking') with foam foundation fill, weatherizing structure, new exterior doors, minor electrical, and overall new painted surfaces. The contractor shall furnish all necessary equipment, labor, supervision and materials specified in this SOW/Specification. All work is to be performed in accordance with this specification and is subject to the terms and conditions of this contract.

**2.0 Acronyms/Definitions:**

Buyer – 81st Contracting Squadron

CPG - Comprehensive Procurement Guide

SOW - Statement of Work

CM - Construction Monitor

MDEQ - MS Dept. of Environmental Quality

BAS - Building Automation System

BTUH - BTU per Hour

GPM - Gallons per Minute

CEV- Civil Engineering Environmental

HWR -Hot Water Return

HWS - Hot Water Supply

KW- Kilowatts

TAB - Test, Adjust and Balance

81 CES/CEN - Civil Engineering

USDA - US Department of Agriculture

PM - Project Manager

**3.0 Task Description:**

3.1 LOCATION: This contract is to be performed at B6655.

3.2 DESCRIPTION OF WORK:

3.2.1 Contractor is required to examine the site and make note of all requirements of the Work before submitting any bids. Any accessories or incidental items not specifically shown on the Drawings and detailed in the Statement of Work herein, which are necessary and/or required to complete the work within the intent of these documents, shall be included by the Contractor without additional cost to the Government. All work shall be performed in strict accordance with the SOW/specifications/plans and drawings and subject to the terms and conditions of the contract.

3.2.2 Utilities for the work will be provided by the Government unless otherwise noted.

3.2.3 It is not anticipated that hazardous material will be encountered during the course of work. However, should such material be encountered, the Contractor is to immediately stop work and contact the Contracting Officer. All hazardous material will be dealt with according to paragraphs 4.7, 4.8, 4.9 of this SOW.

3.2.4 **SCOPE:**

**ROOM 100 – TACAN EQUIPMENT ROOM:**

Government shall remove all TACAN Equipment before start of construction.

Contractor shall be responsible for temporarily removing and storing and reinstalling the standing Liebert unit. Thru wall Air Conditioning unit to remain in place during renovation. Protect as necessary.

• **REMOVE EXISTING:**

- Remove existing VCT flooring and cove base.
- Remove two (2) abandoned metal wall louvers in east wall.
- Remove existing 1x wood trim boards and/or any batt insulation at top of east wall.
- Remove existing light switch and receptacle covers.

• **MODIFY EXISTING:**

- Foundation concrete lifting ('mudjacking / 'slab jacking') structure with Foam Foundation Fill to shore up, halt, repair settling foundation and the hollow under slab and footings. See drawings for as-built structural details and extent of 'mudjacking'.  
\*\*\*Contractor to estimate 200 cubic feet of fill in Base Bid. \*\*\*
- Re-point/re-grout/seal all CMU joints after foundation / slab jacking is complete.
- Scrape, clean and prep CMU walls as per manufacturer's recommendation for new paint finishes.
- Prep wall as needed to receive new cove base.
- Prepare concrete floor for VCT flooring as per manufacturer's recommendations. Include any patching and leveling necessary to achieve manufacturers recommended standards.
- Remove all light fixture lens, clean and reinstall.

• **PROVIDE AND INSTALL NEW:**

- Infill CMU block wall where abandoned thru wall louvers were located on east wall. Prep for new paint finish. See drawings for location.
- Install 12"x12" VCT Flooring EQUAL TO: Armstrong – Excelon Imperial Texture - Color to be from manufacturer's standard colors and determined by Contracting Officer.

## ROOM 100 – TACAN EQUIPMENT ROOM:

• **PROVIDE AND INSTALL NEW: (Cont'd)**

- Install six (6) inch rubber base equal to Johnsonite, Inc. Traditional Rubber Wall Base. Color to be from manufacturer's standard colors and determined by Contracting Officer.

(Contractor to supply a 5% STOCK of ALL flooring and rubber base.)

- Paint all existing painted surfaces per manufacture's recommendations (including cementitious fiber roof insulation and roof joists). Colors to be determined from standard color selection. Paint around all fixtures, signage, electrical panels, emergency shut-offs etc.
- Provide and install one (1) hollow metal door with view hole, one (1) hollow metal frame with weather-stripping all around, and heavy duty door hardware to include continuous hinge, 34" high stainless steel kick plate, mortised lever lockset with heavy duty weatherized cypher locks on all new exterior doors, and heavy duty door closer with stainless steel metal cover plate. See drawings for size and location.
- Metal threshold – EQUAL TO: Pemko Commercial Saddle Threshold Model # 2748A with Threshold Stop Strip Model # 1842\_S.
- Install vapor barrier at top of CMU walls, fill voids with foam insulation, and then attach 1x wood trim boards around entire perimeter of room. Notch and taper wood trim as required to conform to roof slope and roofing structure. Paint to match. See drawings for details.
- Provide and install new light switch and receptacle cover plates. Ivory color.

## ROOM 101 – GENERATOR ROOM:

Generator shall remain in place. Contractor shall cover and protect it during construction.

• **REMOVE EXISTING:**

- Remove sheet metal covers over two (2) abandoned wall louvers in west wall.
- Remove existing 1x wood trim boards and/or any batt insulation at top of west wall.
- Remove existing light switch and receptacle covers.

• **MODIFY EXISTING:**

- Foundation concrete lifting ('mudjacking' / 'slab jacking') structure with Foam Foundation Fill to shore up, halt, repair settling foundation and the hollow under slab and footings. See drawings for as-built structural details and extent of 'mudjacking'.

- Re-point/re-grout/seal all CMU joints after foundation / slab jacking is complete.
- Scrape, clean and prep CMU walls as per manufacturer's recommendation for new paint finishes.
- Scrape, clean and remove existing paint finish from concrete floors.
- Remove all light fixture lens, clean and reinstall.
- **PROVIDE AND INSTALL NEW:**
  - Paint all existing painted surfaces (including cementitious fiber roof insulation and roof joists; but excluding Generator room concrete floor) per manufacture's recommendations. Colors to be determined from standard color selection. Paint around all fixtures, signage, electrical panels, emergency shut-offs etc.
  - Provide and install two (2) hollow metal doors with louvers and bug screening, one (1) hollow metal frame with weather-stripping all around, and heavy duty door hardware to include continuous hinge, 34" high stainless steel kick plate, mortised lever lockset with heavy duty weatherized cypher locks on all new exterior doors, and heavy duty door closer with stainless steel metal cover plates. See drawings for size and location.
  - Metal threshold – EQUAL TO: Pemko Commercial Saddle Threshold Model # 2748A with Threshold Stop Strip Model # 1842\_S.
  - Install vapor barrier at top of CMU walls, fill voids with foam insulation, and then attach 1x wood trim boards around entire perimeter of room. Notch and taper wood trim as required to conform to roof slope and roofing structure. Paint to match. See drawings for details.
  - Provide and install new stainless steel light switch and receptacle cover plates.

**EXTERIOR:**

- **REMOVE EXISTING:**
  - Remove existing hollow metal doors and frames. Contractor to make sure facility remains secure. See drawings for locations and sizes.
  - Remove existing metal thresholds.
  - Remove exiting light fixtures on south façade between canopies. See Exterior elevation drawing for location.
- **MODIFY EXISTING:**
  - Foundation concrete lifting ('mudjacking / 'slab jacking') structure with Foam Foundation Fill to shore up, halt, repair settling foundation and the hollow under slab and footings. See drawings for as-built structural details and extent of 'mudjacking'.

- Re-point/re-grout/seal all CMU joints after foundation / slab jacking is complete.
- **MODIFY EXISTING: (Cont'd)**
  - Scrape, clean and prep CMU walls as per manufacturer’s recommendation for new paint finishes.
  - Contractor to lift existing transformer (approx. 42”x68”) up and remove existing transformer pad and replace with Vectrus supplied larger precast transformer pad. Contractor to fill and level under new pad.
- **PROVIDE AND INSTALL NEW:**
  - Paint all existing painted surfaces per manufacture’s recommendations. Colors to be determined from standard color selection. Paint around all fixtures, signage, electrical panels, emergency shut-offs etc.
  - See TACAN Equipment room and Generator room notes above for new exterior hollow metal door and threshold information and drawings for locations and sizes.
  - Provide and install new exterior light fixture on South façade. LED Light fixture with photocell controls - EQUAL TO: Atlas Light Products – Atlas LED Wall Light – Model # WLM43LED - See drawing for location.
- **ATTACHED SPECIFICATIONS AND DRAWINGS:**

**DRAWINGS:**

- A1.0 – Floor Plans, Wall details, Demolition and Renovation Keyed Notes.
- A1.1 – Exterior & Interior Elevations and Building Sections

**SPECIFICATIONS:**

00 10 20	LIST OF DRAWINGS
01 30 00	SUBMITTALS
07 09 00	CAULKING & SEALANTS
08 07 20	THRESHOLDS
08 11 13	STEEL FRAMES & DOORS
09 65 19	RESILIENT TILE FLOORING
09 91 13	EXTERIOR PAINT
09 91 23	INTERIOR PAINT

3.2.5 Reference AF Form 66 Schedule of Material Submittals for submittals that must be approved. The Contractor shall provide all items listed on AF 66 on the AF Form 3000 Material Approval Submittal. Item number on the AF Form 3000 must match the same Item number listed on the AF Form 66.

- 3.2.5.1 All submittal documents received that do not clearly delineate and display the information which is being submitted will be returned to the contractor.
- 3.2.5.2 The Contracting Officer's approval or acceptance of submittals is not to be construed as a complete check, and indicates only that the general method of construction, materials, detailing and other information are satisfactory, to meet the Solicitation and Accepted Proposal. Approval or acceptance will not relieve the Contractor of the responsibility for any error which may exist.
- 3.2.6 **Material:** All material furnished by the Contractor for this job shall be new and unused material of high quality unless otherwise noted. The contractor is responsible for the proper storage of all material until it is installed.
- 3.3 **PERFORMANCE TIME:** **180** Days after the 'Notice to Proceed' has been signed.
  - 3.3.1 No Work shall begin until all Submittals have been received and approved.
  - 3.3.2 Punch list items noted in the closeout process shall be fixed before the end of the Period of Performance or the project will be considered past due.
- 3.4 **PERFORMANCE OF WORK:**
  - 3.4.1 Services shall be conducted in conformity with applicable regulations to contribute maximum satisfaction to responsible base offices. All work shall be done in a neat and workmanlike manner and in keeping with generally accepted standards for similar work. Work shall be done with minimum divergence from schedules once established. All work shall be done with minimum disturbance and maximum protection of property. The CM shall be notified 72 hours prior to work starting.
  - 3.4.2 The contractor must within 24 hours of notice that a delay will be incurred notify the buyer in writing. This letter must identify why there will be a delay, and how long. Also the contractor shall take any actions in his control to prevent delay from occurring.
  - 3.4.3 In order to complete the work on this job, certain Government -owned facilities may have to be removed or altered in some way and others may be inadvertently damaged. It is the responsibility of the Contractor to return these facilities to a condition acceptable to the Contracting Officer.
    - 3.4.3.1 Damage to located underground utilities will be repaired at the Contractor's expense. Repairs shall replace the damaged section "in kind" for storm, sanitary, gas, and water; or replace the entire run to the current standard in the case of communication or electrical.



- 3.6 JOBSITE MAINTENANCE AND STORAGE AREAS: The contractor shall maintain the jobsite and staging areas in conformance with Keesler standards.
- 3.6.1 Lay down/staging areas shall be kept neat and free of loose debris at all times. Grass shall be cut and maintained regularly. Height and maintenance shall be consistent with normal Base standards and consistent with the immediate area.
  - 3.6.2 Jobsites and lay down/staging areas shall be enclosed with a 6' chain link fence with brown fabric screening unless otherwise noted. Materials and equipment may be stored inside storage units. Items stored in the lay down area shall be arranged neatly.
  - 3.6.3 All temporary storage trailers and storage containers shall present a neat and clean appearance and shall be in a state of good repair and shall be located within the fenced area described in paragraph above.
  - 3.6.4 If allowed by the contract and if approved by the Contracting Officer, an office mobile unit may be located outside of a fenced area. At a minimum, this unit shall be in a paved area and shall present a neat, professional appearance. Unit shall be of Keesler standard colors, shall have presentable skirting and access stairs. Ancillary items, such as porches and canopies, shall be neat and painted Keesler brown. Contractor shall submit a picture of the proposed unit for approval and before unit is moved to Base.
  - 3.6.5 Execution of work may require excavation or other type of work both at and away from primary work area. These areas shall be secured and work times shall be kept to a minimum. Open excavations shall be directly in progress or shall be covered directly after work complete. Open excavations requiring extended period of inactivity shall be temporarily backfilled. In no case shall an excavation be open for more than 72 hours. Barricades, fences and other warning devices shall be maintained neatly at all times.
  - 3.6.6 The Contractor shall maintain the premises, including any staging area or storage areas, free from accumulations of waste, debris, and rubbish caused by the Contractor's work and shall minimize the spread of dust and flying particles. As work is completed, or at the end of each day, the site shall be cleaned and all waste material shall be properly disposed of.
  - 3.6.7 Should warnings of winds of gale force or stronger be issued, the Contractor shall take every practical precaution to minimize danger to persons and damage to property. These precautions shall be coordinated through the Contracting Officer and shall include closing all openings; removing all loose materials, tools, and equipment from exposed



locations; as well as removing or securing scaffolding and other temporary work. Contractor will follow Keesler AFB requirements for Hurricane Conditions in force.

3.7 SUPERVISION: Contractors shall provide a Supervisor familiar with the project and within 15 minutes of the project site at all times when work is in progress. Contractor is responsible for scheduling and coordinating various trade activities. Contractor is also responsible for assuring that all work accomplished and materials used are in accordance with industry standards

3.8 HOURS OF OPERATION: The Sub-Contractor will be able to accomplish this work between the hours of 7:00 AM and 5:00 PM. The Sub-Contractor will not normally be permitted to work on weekends or on the following legal holidays (or the day the Federal Government observes these holidays) unless he has coordinated such work with the sub-contract representative at least seventy-two (72) hours in advance:

- |                                       |                     |
|---------------------------------------|---------------------|
| a. New Year's Day                     | f. Labor Day        |
| b. Martin Luther King, Jr.'s Birthday | g. Columbus Day     |
| c. Washington's Birthday              | h. Veteran's Day    |
| d. Memorial Day                       | i. Thanksgiving Day |
| e. Independence Day                   | j. Christmas Day    |

The following days are not legal holidays but may require work stoppage:  
Special Olympics- Thursday through Sunday of First NON-Training weekend in May

3.9 PERMITS:

3.9.1 Contractors will be required to obtain permits as required by Keesler in the performance of their work. Contractors shall post or have readily available all permits before work is commenced

3.9.1.1 The following permits must be obtained anytime referenced work is required.

DIG PERMIT,	Vectrus Customer Service
BURN PERMIT,	Keesler AFB Fire Department
CONFINED ENTRY PERMIT,	(certified personnel only)
	Obtain permit from Vectrus CM or Safety Office. Notification to Fire Department of actual day and time work is accomplished.

### 3.11 INTERRUPTION OF SERVICES:

3.11.1 If interruption of any building utility services such as but not limited to the following, chilled water, electrical power, domestic water, fire protection water supply, or communications etc. Are required, the contractor shall perform the work on normal work week hours after receiving approval, during the weekend, or on non-training Fridays. The contractor shall coordinate the interruption of the utilities 14 days in advance with the SM and user regardless of the option chosen. The contractor shall include any additional cost of performing the work in their original bid.

3.11.2 The contractor shall fill out a “utility service outage request form” and submit it to the contracting officer. The contracting officer may require the contractor to attend a coordination meeting to assess the purpose, intent, and impact of the outage request with the facility and any or all operations departments. Contractors shall not shut-down or start-up any mechanical, electrical and/or plumbing system without the coordination and/or permission of the contracting officer.

### 3.12 JOBSITE SAFETY:

3.12.1 The contractor shall take all necessary and prudent safety precautions to ensure the safety of the workforce and other exposed personnel. The Contractor shall observe all Safety, Security, Traffic and Fire regulations presently enforced at Keesler Air Force Base and comply with latest issue of OSHA requirements. Contractors shall comply with the Occupational Safety and Health Act (OSHA, Public Law 91-596) and the resulting standards, OSHA Standards 29 CFR 1910 and 1926. The detailed provisions of the act for accident prevention are directly applicable to all Contractor operations. Prime Contractors are also responsible for ensuring any sub-contractors also adhere to OSHA Guidance. OSHA compliance officers can visit Contractor worksites on the installation.

3.12.2 Contractors are responsible for ensuring all industrial safety provisions are followed. Take immediate corrective action to comply with safety regulations if informed of a violation by the contracting officer.

3.12.3 Contractors must report all accidents involving Air Force people, property, or equipment damage, and any contractor personnel injured in the performance of the air force contract to the contracting officer.

3.12.4 Contractor shall comply with all aspects of the National Fire Protection Association (NFPA) Standard 241, "Standard For Safeguarding Construction, Alteration, And Demolition Operations," current edition, and United Facilities Criteria (UFC) 3-600-01, “Fire Protection Engineering For Facilities,” current edition.

- 3.12.5 Provide safety protection and precautions for any electrical exposure. Temporary lighting shall have metal cages around the lamp and shall be turned off when not in use and no fire watch is present.
- 3.12.6 Ground Fault Circuit Interrupters: Whenever contractor uses portable electrical tools or equipment in an outside location where operator will be in contact with a grounded surface or in an interior wet location where floor is conductive such as concrete, contractor shall provide and use a portable ground fault circuit interrupter (GFCI). This shall apply wherever electric power is supplied through government-owned facilities. Contractor shall be responsible for maintaining the GFCI in operating condition and testing it before each use.

### 3.13 PASSES:

- 3.13.1 Contractor Notification Responsibilities: The Contractor shall provide a written notification to the Contracting Officer. The notification shall include the names and contact information (address, phone number, and email) of a minimum of two Contractor representatives (preferably the contracting agent and the project supervisor) that will be responsible for this project and have 24 hour contact availability to answer any questions or address any issues that may arise that are related to this project.
- 3.13.2 Passes for Contractor employees may be requested through the Contracting Officer. Requests shall include full name of employee as it appears on their identification, length of pass needed (up to 30 days), and days needed (if other than standard working hours).
- 3.13.3 Paperwork required for passes:
- 3.13.3.1 For vehicle operators: 1] Current driver license for each employee in support of work on Keesler AFB. Individuals will no longer be able to access Air Force installations with a state-issued identification card or driver's license from Minnesota, Missouri, Washington or American Samoa. 2] Vehicle Registration and Proof of Insurance
- 3.13.3.2 For non-vehicle operators: Current driver license, official ID card, or passport. Individuals will no longer be able to access Air Force installations with a state-issued identification card or driver's license from Minnesota, Missouri, Washington or American Samoa.

- 3.14 REPORTING REQUIREMENTS: The contractor shall comply with AFI 71-101, Volume 1, *Criminal Investigations* and Volume 2, *Protective Service Matters*, requirements. Contractor personnel shall report to an appropriate authority, any information or circumstances of which they are aware may pose a threat to the security of DOD personnel, contractor personnel, resources, and classified or

unclassified defense information. Contractor employees shall be briefed by their immediate supervisor upon initial on-base assignment and as required thereafter.

### 3.15 PHYSICAL SECURITY:

- 3.15.1 Areas controlled by contractor employees shall comply with Base Operations Plans/instructions for THREATCON procedures, Random Antiterrorism Measures (RAMS) and local search/identification requirements. The contractor shall safeguard all government property, including controlled forms, provided for contractor use. At the close of each work period, government training equipment, ground aerospace vehicles, facilities, support equipment, and other valuable materials shall be secured.
- 3.15.2 The Contractor shall not employ persons for work on this contract if such employee is identified by the government or BOS Contract officials as a potential threat to the health, safety, security, general well-being or operational mission of the installation and its population.

### 3.16 VEHICLE SAFETY AND TRAFFIC LAWS:

- 3.16.1 The contractor and its employees shall comply with base traffic laws and regulations.
- 3.16.2 The Contractor shall ensure employees have a current and valid driver's license and commercial permits/licenses for the type of vehicle operated, before allowing the employee to operate a Contractor-owned or rental vehicle on Keesler AFB.
- 3.16.3 The Contractor shall provide all vehicles to perform the requirements of the contract. All vehicles shall be in operable condition and meet local, state and federal safety requirements, and be specifically designed for the purpose intended for use. Vehicles shall have, clearly visible on each side, the Contractor company name, a unique vehicle identification number, in addition to all required Department of Transportation (DOT) markings and information.
- 3.16.4 Air Field Driving: All contractors must receive airfield drivers training prior to receiving notice to proceed or prior to driving on the airfield IAW (AFI 13-213, 2.1.3.39.7.) This training will be provided by Airfield Management at B0233 PH: 228-377-2215.
- 3.16.5 Cellular Phones: The use of cellular phones while operating a vehicle is prohibited while on Keesler AFB property.

- 3.18 **FREEDOM OF INFORMATION ACT PROGRAM (FOIA)**: The contractor shall comply with DOD5400.7-R\_AFMAN 33-302, Freedom of Information Act Program (FOIA), and requirements. The regulation sets policy and procedures for the disclosure of records to the public and for marking, handling, transmitting, and safeguarding For Official Use only (FOUO) material.

#### 4 **Environmental:**

- 4.1 **RECYCLED CONTENT AND BIO BASED PRODUCTS**: Executive Order 13514 dated 5 Oct 09, outlines the federal government's special responsibility to lead the way in building markets for recycled goods. Green procurement is the name given by the Air Force to this buy-recycled purchasing program. The intent of the program is to stimulate recycling by providing a market for new products manufactured with bio-based or recycled materials. The legal authority for the Green Procurement Program comes from the Resource Conservation and Recovery Act (RCRA) Section 6002. It requires federal agencies to give preference in their purchasing programs to products and practices conserving and protecting natural resources and the environment. If applicable, material and product submittals for all recycled-content items should list the recycled and recovered materials used and the percentage content (by weight). Submittals for bio-based products should describe the bio-based materials used and the percentage content (by weight). This data is required to be submitted by the contractor on an AF Form 3000 (Material Approval Submittal) to the Contracting Officer upon completion of performance (construction).

- 4.2 **ENVIRONMENTAL PROTECTION**: Contractor personnel shall, at all times, perform all work and take such steps required to prevent any interference or disturbances to the ecological balance of the environment. All work must be performed in accordance with applicable Federal, State, Local, and Air Force environmental regulations. Use good management practices to protect air, water, land and wildlife and to prevent noise, solid waste, radiant energy, dust and radioactive pollutants. In the event of a chemical or hazardous material spill, the contractor must immediately notify the Keesler Fire Department at 911 (identify that you are located on Keesler AFB) and the Keesler BOS Contractor environmental representative at 228-377-1262.

- 4.3 **WASTE MATERIALS**: Unless otherwise specified, all waste materials, excess dirt and rubble, empty containers, etc., shall be disposed of at an approved off-base location in accordance with all applicable Federal, State, County and Municipal laws.

4.3.1 **Solid Waste Management**:

4.3.1.1 Designate individuals on the contractor's staff who are responsible for Construction and Demolition (C&D) waste prevention and management.

4.3.1.2 Develop procedures for collecting and storing C&D waste on project sites, including designating locations for waste containers,

sorting or separating methods, handling and transporting of wastes, special handling requirements, and scheduling for waste and recycling collection.

- 4.3.1.3 Develop descriptions of how the C&D materials will be recycled or reissued. The information should include any on-site storage and processing areas and a description of the processing and equipment.
- 4.3.1.4 Records shall be maintained for all C&D projects to document the quantity of waste generated; the quantity of waste diverted through sale, reuse, or recycling; and the quantity of waste disposed by land filling or by incineration.
- 4.3.1.5 Contractors shall provide these records to the Contracting Officer in accordance with contract requirements.
- 4.3.1.6 In accordance with Executive Order 13514, Keesler AFB will divert 60% of all C&D waste.
- 4.3.1.7 Manage solid waste in accordance with the Keesler AFB Integrated Solid Waste Management Plan.
- 4.3.1.8 For any questions regarding solid waste, please contact VECTRUS/ CEV at 228-377-1262.

#### 4.4 **HAZARDOUS MATERIALS:**

In the event that hazardous materials will be used in the execution of this contract, the contractor will be required to provide a list of materials, quantities, and Safety Data Sheets (SDS) to the Contracting Officer before work begins. The hazardous materials must be approved through the Keesler Hazardous Materials Management Program prior to being brought onto Keesler AFB. This approval process may take up to two weeks, which should be considered in the performance period of this contract. Unless otherwise specified, all unused hazardous materials should be removed from the base at the end of the project.

#### 4.5 **STORM WATER MANAGEMENT:**

If ground disturbing activities will take place as part of this project, the following items must be completed:

- 4.5.1 For any construction activity greater than 5,000 square feet of ground disturbance, the contractor shall comply with all provisions of the Energy Independence and Security Act (EISA) concerning storm water run-off from Federal development projects.
- 4.5.2 The construction contractor shall complete all paperwork necessary, including the Storm Water Pollution Prevention Plan (SWPPP) to apply for the appropriate Large (>5 acres) or Small (>1 acre but <5 acres) Construction Storm Water General Permit (Permit) from the Mississippi Department of Environmental Quality (MDEQ).

- 4.5.3 The contractor shall furnish Vectrus/CEV copies of the Permit application, SWPPP, Permit, confirmation letter from the MDEQ and any other pertinent storm water information related to the project.
- 4.5.4 The initial storm water permit application and original SWPPP shall be submitted to Vectrus/CEV for review and comment prior to or at the time of submittal to the MDEQ.
- 4.5.5 The contractor shall comply with all provisions of the Permit throughout the duration of the project.
- 4.5.6 Any construction site/land disturbance activity greater than 20,000 sq/ft, but < 1 acre shall have a SWPPP prepared and approved by Vectrus/CEV prior to construction or implementation of the land disturbance activity.
- 4.5.7 The contractor shall ensure that effective Best management Practices (BMPs) are utilized in areas of imported fill material, including, but not limited to, bench tests or other testing methods of potential imported backfill sediment run-off for proper BMP selection.
- 4.5.8 The Keesler AFB Small Municipal Separate Storm Sewer System (MS4) Permit requires Keesler AFB to maintain a file for each construction site. The file must contain the storm water training credentials of all contractor personnel involved in storm water management at each construction site. The contractor shall furnish Vectrus/CEV copies of storm water training credentials for all pertinent employees prior to commencement of construction activities. Vectrus/CEV training information is available to the contractor.
- 4.5.9 The contractor shall modify the SWPPP at any time to ensure the SWPPP is current with the existing site conditions at any time for the duration of the project.

The contractor shall maintain all appropriate post construction storm water (BMPs) until final site stabilization is achieved

#### 4.6 **REQUIRED ASBESTOS ABATEMENT AND MANAGEMENT**

**PROCEDURES:** These steps are in accordance with Air Force Instruction (AFI), EPA, and MDEQ. OSHA regulations govern all worker safety requirements and must be complied with at all times by contractors and subcontractors. These requirements are summarized in the Keesler Air Force Base Asbestos Operations and Management Plan.

- 4.6.1 The following steps are required by all personnel or contractors doing work on Keesler Air Force Base.

- 4.6.2 If the personnel or contractor encounters what they think may be asbestos, they are required to **stop** and call the KAFB Asbestos Point of Contact (APOC) at the Keesler Environmental Section, which is Brent Eanes at 228-377-5823 or EMCS after hours.
- 4.6.3 Once it is determined by the APOC that asbestos is present, the following actions described below are required (Only the APOC and Bioenvironmental are certified to make that determination).

4.7 **NO ABATEMENT WORK IS TO BEGIN WITHOUT WRITTEN APPROVAL FROM THE APOC.** A Mississippi State certified asbestos abatement contractor must be used to conduct the abatement. Please note that non-friable asbestos can easily be made friable and become regulated.

- 4.7.1 Before: The following documents must be submitted to the Asbestos POC and approved in writing before abatement can begin:
  - 4.7.1.1 10 Day MDEQ notification and return acknowledgment letter
  - 4.7.1.2 Asbestos Hazard Abatement Plan (to be certified by a Mississippi Certified Management Planner and/or Certified Industrial Hygienist )
  - 4.7.1.3 Asbestos Work Plan (scope of work, removal procedures, worker protection, air monitoring, disposal location, containment procedures)
  - 4.7.1.4 MDEQ Asbestos Abatement Certification for the Company
  - 4.7.1.5 Supervisor's qualifications and state certification
  - 4.7.1.6 CURRENT State Certifications (applications will not be accepted for all individuals working on site)
  - 4.7.1.7 Respirator fit tests for all individuals
  - 4.7.1.8 Physicals for all individuals
- 4.7.2 During: Once the submittals are approved in writing, the following actions are required.
  - 4.7.2.1 The contractor is required to set up their containment areas, negative air machine, and critical barriers and obtain approval from the Asbestos POC to begin work.
  - 4.7.2.2 The Asbestos POC routinely checks the abatement work to ensure that the containment area and critical barriers are secure, that the workers are wearing the appropriate personal protective equipment that the asbestos-containing material is being bagged appropriately, and that air monitoring is being conducted on the workers and outside the abatement area. This also includes reviewing the daily log maintained on site to assure that no uncertified individuals are performing abatement work.
  - 4.7.2.3 Upon completion of the abatement work, the contractor contacts the Asbestos POC to conduct a walk-through of the area and approve that all abatement has been completed and that the area



has been cleaned of asbestos fibers. This action will require at least a 24-hour period. Please reference cleaning procedures in the Asbestos Management and Operations Plan.

4.7.2.4 Air sampling results are required to be collected and submitted for approval by the Asbestos POC before the containment area, negative air machine, and critical barriers can be removed.

4.7.2.5 All asbestos waste must be handled and disposed of in accordance with State law. The Asbestos POC must review the waste prior to leaving the base and the manifest will be signed by a designated Keesler government representative. Contractors will not sign manifests for asbestos containing material (ACM).

4.7.3 After: After the abatement has been complete and approved by the Asbestos POC, the contractor shall submit the following items in a post-job submittal to be maintained in the Asbestos Abatement Files.

4.7.3.1 Air sampling results

4.7.3.2 Daily report logs

4.7.3.3 Daily worker sign in/out sheets

4.7.3.4 Waste manifest (Generator Copy)

The Asbestos POC and Environmental Section (VECTRUS/ CEV) are available at any time to provide asbestos awareness training and consultation to CM's, PM's, Contractors and Subcontractors **prior** to beginning the project.

#### 4.8 **REQUIRED LEAD-BASED PAINT MANAGEMENT PROCEDURES:**

Appropriate OSHA worker protection is the responsibility of the employer. All projects will be monitored and inspected by VECTRUS/ CEV. The purpose of these instructions is to provide guidance to safely remove or encapsulate lead-based paint without causing a hazard. All work must be performed in accordance with OSHA, MDEQ and any local regulations for all work and disposal. The regulations are divided into two parts; a) lead-based paint on non-child occupied/non-target housing buildings and b) child occupied/target housing buildings.

4.8.1 Non-child occupied/ commercial buildings.

4.8.1.1 For non-child-occupied/commercial buildings, the minimum requirement for contractors is to protect workers IAW OSHA requirements, use poly lay-down to collect paint chips, and turn into VECTRUS/ CEV for disposal. At minimum the supervisor of the project should be LBP trained and supply proof of certification before work begins. The contractor shall notify VECTRUS/ CEV before start of any project. Contractor must place plastic on the ground sufficient to capture all loosened paint chips and control water run-off. Removal methods preferred at Keesler AFB are the use of an approved chemical stripper or wet sanding methods for

better collection of LBP chips and waste. These processes minimize lead dust and allow for maximum collection of LBP chips.

- 4.8.1.2 The contractor shall meet with VECTRUS/ CEV prior to beginning the project to discuss protective measures, best management practices (BMP's), any landfill disposal, and maintenance of chips and their collection (until they are turned over to VECTRUS/ CEV).
- 4.8.1.3 Any buildings with lead-based paint, if bead blasted to remove old paint, shall be supervised by a contractor with proper training. Bead blasting upon prior approval only (see preferred method above).
- 4.8.1.4 The contractor, under OSHA rules, must comply with the lead based paint rules (including notification to VECTRUS/ CEV, if the job is abatement), certify appropriate training, and maintain personal monitors on workers until it is demonstrated there is no airborne lead risk.
- 4.8.1.5 VECTRUS/ CEV will inspect all projects involving Lead Based Paint removal and any required documentation must be provided to VECTRUS/ CEV prior to beginning work.

#### 4.8.2 Child-occupied/target housing buildings

- 4.8.2.1 Any child-occupied/target housing building older than 1978 must be painted using Lead Paint Protocol, including poly-lay-down, collection of paint chips, and the contractor must always have a minimum of lead hazard training for all workers. The contractor shall notify VECTRUS/ CEV before start of any project.
- 4.8.2.2 A paint contractor must collect paint chips in their own clean buckets and have VECTRUS/ CEV dispose (if contract requires VECTRUS/ CEV dispose). Contractor must place plastic on the ground sufficient to capture all loosened paint chips and control water run-off.
- 4.8.2.3 For work on child-occupied/target housing buildings falling under the Lead Paint Protocol, the contractor must use water or amended water when scraping or chipping. All members of the contractor's work force must wear protective clothing and comply with all OSHA rules and regulations. OSHA regulation compliance is the employer's responsibility and is subject to inspection by OSHA and the Base. Suggested PPE include foot protection (ex. Rubber Boots) worn while on the poly. All PPE shall be stored on the protective plastic when not in use and shall be decontaminated or

disposed of in an approved manner. Minimum respiratory protection for any OSHA “trigger task” such as scraping, manual sanding, demolition, heat gun and power tool cleaning is a half-mask air purifying respirator (APR) with HEPA filter that is at least 99.97 percent efficient (i.e. P100). APR fit tests evidence must be provided for inspection. Other circumstances may warrant higher protection. PPE determination is the responsibility of the contractor.

4.8.2.4 The contractor shall meet with VECTRUS/ CEV prior to beginning the project to discuss protective measures, best management practices (BMPs), any landfill disposal, collection and storage of chips (until they are turned over to VECTRUS/ CEV, if contract specifies VECTRUS/ CEV dispose).

4.8.2.5 Full abatements on “child occupied/target housing” buildings such as removal of paint to substrate, encapsulation, enclosure, removal and/or removal/replacement of components, or soil removal/covering require fully trained/certified companies, workers, and supervisors, as well as six (6) prior work-days notification to MDEQ. VECTRUS/ CEV must be provided copies of and verify the 6-day notice, all Mississippi state certifications, copies of medical examinations, and copies of respirator fit tests before beginning any job.

All required documentation must be provided to VECTRUS/ CEV prior to work beginning.

## 5 **Deliverables:**

### 5.1 INSPECTION AND ACCEPTANCE:

5.1.1 Inspection and Acceptance of services will be performed at Keesler AFB, Mississippi by the User or Facility Commander, a member of 81<sup>st</sup> ID, and the Vectrus Keesler BOS Construction Monitor (CM). Inspection and acceptance will be conducted in accordance with this SOW.

### 5.2 INSTALLED EQUIPMENT:

5.2.1 Contractor will furnish manufacturer warranties as needed for any component incorporated into this project such as equipment; any component installed in or made a part of the existing structure and any exterior or interior finishes, etc.

5.2.1.1 A 1 year warranty on material and labor.

5.2.1.2 The manufacturer’s warranty, if applicable.

- 5.2.2 All Operations and Maintenance manuals for any equipment supplied as part of the project.
- 5.3 REPORTS: The contractor shall supply any third party reports, test and balance reports, communication signal tests, etc. to the CM as soon as they are available or before project acceptance.
- 5.4 AS BUILT DRAWINGS: The service provider shall provide as-built drawings regardless of any deviation from the original design. The drawings shall be RED lined markups (from either In-house Design or AE Design drawings) and shall be updated daily as necessary and turned in to the CM at the end of the contract.
- 5.5 DAILY PROJECT REPORTS: Contractor shall submit reports for the project every Tuesday of each week to cover the previous Tuesday thru Monday dates. (Only accepted on Vectrus Forms)

## 6 **Construction Monitor:**

- 6.1 The Construction Monitor (CM) is a Vectrus Keesler BOS employee assigned to interface with the contractor. The CM is authorized to provide technical direction within the scope of the contract. All technical direction shall be issued to the contractor via a RFI (Request for Information) countersigned by the Contracting Officer.

The PM for this contract is:

PM: Michelle Bain

Phone: 228 377-2207

Email: michelle.bain.ctr@us.af.mil

Mailing Address:

508 L Street (B4705)

Keesler, AFB, MS 39534

The CM for this contract is:

PM: Michelle Bain

Phone: 228 377-2207

Email: michelle.bain.ctr@us.af.mil

Mailing Address:

508 L Street (B4705)

Keesler, AFB, MS 39534

- 6.2 The CM can assist the contractor in the interpretation of technical requirements and performance of the effort required. The CM shall have no authority to impose additional requirements or to change or delete existing requirements of the contract. Any clarification provided by the CM concerning the work to be performed shall not be construed as a change to the contract. Any changes to the original Scope of Work must be approved in writing prior to work being performed.

--End of Section--