STATEMENT OF WORK
Project Name: REPLACE TRIANGLE POOL LINER, B7506
Project # MAHG251039 WT # 14917458

1.0 INTRODUCTION:

The contractor shall furnish all equipment, labor, supervision and materials necessary to provide a pool liner, filter media, an above ground pipe replacement, and pool water heaters at the Triangle Pool located at Keesler AFB. All work is to be performed in accordance with the statement of work (SOW), specifications (SPECS), Drawings and the terms and conditions of the contract.

2.0 ACRONYMS/DEFINITIONS:

ABA - Architectural Barriers Act
ACM - Asbestos Containing Material
AF- Air Force
AFB - Air Force Base
AFI - Air Force Instruction
APR - Air Purifying Respirator
BMP - Best Management Practice
BOS - Base Operating Support
C&D - Construction and Demolition
CE - Civil Engineering
CES - Civil Engineer Squadron
CEV - Civil Engineering Environmental
CFR - Code of Federal Regulations
CM - Contract Monitor/Construction Manager
CO - Contracting Officer
CUI - Controlled Unclassified Information
DOD - Department of Defense
EISA - Energy Independence and Security Act
EPA - Environmental Protection Agency
FPCON - Force Protection Condition
FOIA - Freedom of Information Act
FT - Foot
GFCI - Ground Fault Circuit Interrupter
HEPA - High Efficiency Particulate Air (filter)
IAW - In Accordance With
IBC - International Building Code
IN - Inch
LBP - Lead Based Paint
LF - Linear Feet
MDEQ - MS Department of Environmental Quality
MDOT - Mississippi Department of Transportation
MSS - Material Submittal Schedule
NEC - National Electric Code
NFPA - National Fire Protection Association
NIST - National Institute of Standards and Technology
OSHA - Occupational Safety and Health Act
PM - Project Manager
POC - Point of Contact
PPE - Personal Protection Equipment
RAMS - Random Antiterrorism Measures
RCRA - Resource Conservation and Recovery Act
RFI - Request for Information
SDS - Safety Data Sheets
SF - Square Foot
SOW - Statement of Work
SWPPP - Storm Water Pollution Prevention Plan
SY - Square Yard
UFC - United Facilities Criteria
WT - Work Task
TAB - Test, Adjust and Balance

3.0 PROJECT DESCRIPTION

3.1 LOCATION: This project is to be performed at Triangle Pool located at 7506 Galaxy Street, Biloxi MS, 39534.

3.2 DESCRIPTION OF WORK:

3.2.1 The Contractor is urged and expected to examine the site and make note of all requirements of the work before submitting any proposals. The Contracting Officer (CO) will provide specifications, drawings, and documents relevant to this requirement. The Contractor shall check all drawings and specifications furnished immediately upon receipt and notify the CO of any discrepancies. The Contractor shall be responsible for any errors that might have been avoided by complying with these procedures set forth. Any accessories or incidental items not specifically shown on the contract documents and detailed in the SOW 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/Drawings, and subject to the terms and conditions of this contract.

3.2.2 Utilities for this work will not be provided by the Government.

3.2.3 It is not anticipated that hazardous material will be encountered during work. However, should such material be encountered, the Contractor is to immediately stop work and contact the CO. All hazardous material will be handled IAW paragraphs 4.4, 4.6, 4.7, 4.8 of this SOW.

3.2.4 SCOPE:

3.2.4.1 GENERAL SCOPE NOTES:

3.2.4.1.1 The primary objective of this project is to replace the pool liner, filter media, pipes, and install water heaters.

3.2.4.1.2 The Contractor shall comply with all OSHA standards during all phases of work being completed.

3.2.4.1.3 Provide daily cleaning of the pool's affected area of work as completed for that day. Contractor shall be responsible for disposing of all material and cleaning the area of work at the completion of the project.

3.2.4.1.4 Coordinate with the CO, CM and Water Shop for the drainage of pool water.

3.2.4.1.5 Contractor is responsible for testing all existing paint for compatibility with specified paint and finishing as well as existing adhesion. If additional preparation is required, it is the Contractors responsibility to bear the burden of the preparation.

3.2.4.1.5.1 Pool lane markings and apron markings are to be painted in accordance with paint specification 09 90 02.

3.2.4.1.6 Contractor is responsible for providing stencils for all markings. After final inspection is completed, all stencils shall be submitted to the Government.

3.2.4.2 DEMOLITION:

3.2.4.2.1 Remove and dispose of pool liner. Prep, clean, and resurface the gunite pool.

3.2.4.2.2 Remove and dispose of existing pool filter medium from the two (2) filter tanks located inside privacy fence at Triangle Pool Equipment area located west at the rear of Triangle Pool.

3.2.4.2.3 Remove and dispose of existing filter piping, approximately one hundred and twenty (120) linear feet of above ground piping leading to the backflow.

3.2.4.2.4 Clean and prep the interior of the filter tanks for new filter medium.

3.2.4.2.5 Remove and dispose of two (2) pool heaters.

3.2.4.3 NEW CONSTRUCTION:

3.2.4.3.1 Clean, prep, and resurface concrete pool prior to installation of new pool liner. Assume 10% of surface area of pool for joint repair prior to resurfacing.

3.2.4.3.2 Provide and install new white marcite cement based plaster pool liner, approximately 164ft x 54 ft.

3.2.4.3.3 Prime and paint all interior markings and apron markings. This is to include pool interior water depth markings, lane markings, warning markings, and apron markings. Refer to paint specification 09 90 02 for application instructions.

3.2.4.3.4 Provide and install new above ground pipes, approximately 120 linear feet from pool filter to back flow.

3.2.4.3.5 Provide and install new pool filter medium for both filter tanks. Refer to attachment (High Rate Sand Filter Systems O&M Manual) for filter medium replacement instructions.

3.2.4.3.6 Provide and install two (2) natural-gas powered commercial pool heaters.

3.2.4.3.6.1 At minimum, each pool heater must be rated at 2,070,000 BTU and has a GPM of 115.

3.2.4.3.6.1.1 Heat exchanger is a gasket less copper-finned tube design with glass-lined headers, ASME 160 psi rated.

3.2.4.3.6.1.2 NOx(Nitrogen oxides) emissions tested at less than 20 parts per million.

3.2.4.4 ATTTACHED SPECIFICATIONS AND DRAWINGS

3.2.4.4.1 SPECIFICATIONS: MAHG251039 Replace Triangle Pool Liner, B7506_Specs, and High-Rate Sand Filter Systems O&M Manual

3.2.4.4.2 DRAWINGS: MAHG251039 Replace Triangle Pool Liner, B7506_DWG

3.2.5 REFERENCE MATERIAL SUBMITAL SCHEDULE (MSS):

The Contractor shall provide all items listed on MSS - Submittal Register on the AF Form 3000 Material Approval Submittal. Item number on the AF Form 3000 must match the same Item name/number listed on the MSS - Submittal Register.

3.2.5.1 No Work shall begin until all Submittals related to that work have been received and approved.

3.2.5.2 Submit via email one (1) copy of product data, shop drawings, and Certification of Compliance, and Manufacturer Recommendations, or as otherwise noted in the MSS - Submittal Register, as directed in the Pre-Construction Conference.

3.2.5.3 Submit three (3) hard copies of color schedules, and one (1) copy of samples, or as otherwise noted in the MSS - Submittal Register, as directed in the Pre-Construction Conference.

3.2.5.4 All submittal documents received that do not clearly delineate and display the information which is being submitted will be returned to the Contractor.

3.2.5.5 The CO'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.

3.2.5.6 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 SCHEDULE OF VALUES / PROJECT SCHEDULE

3.3.1 In addition to the AF 3064, the Project Schedule shall be the basis for measuring Contractor progress. The contractor shall utilize the Critical Path Method (CPM) and the Precedence Diagram Method (PDM) to schedule and control project activities. Schedule shall include every Definable Feature of Work (DFOW) identified.

3.3.1.1 At a minimum, each activity / DFOW shall include the following information:

3.3.1.1.1 Activity ID

3.3.1.1.2 Activity Description

3.3.1.1.3 Original Duration in Workdays

3.3.1.1.4 Early Start Date

3.3.1.1.5 Eary Finish Date

3.3.1.1.6 Late Start Date

3.3.1.1.7 Late Finish Date

3.3.1.1.8 Total Float

3.3.1.1.9 Bid Item

3.3.1.2 The project schedule shall be kept current, reflecting actual activity progress and plan for completing the remaining work. Updated project schedules shall be submitted for Government approval upon request of the Contracting Officer or in conjunction with any Contractor request for additional time.

3.3.1.3 The Project Schedule shall be created and managed through project management software of the contractor's choosing. The schedule shall be submitted as a Gantt Chart in Adobe (.pdf) format.

3.3.2 A SOV shall accompany the pay request along with an updated project schedule when submitted for review and approval. The Schedule of Values (SOV) is a document used in assisting project management and verifying contractor invoices and work progress. The SOV document consists of a detailed breakdown of the total contract award into work components subdivided according to Specification Divisions.

3.4 PERFORMANCE TIME:

3.4.1 Performance will begin 10 calendar days after Notice to Proceed and end 180 calendar days later.

3.4.2 No Work shall begin until all Submittals related to that work have been received and approved.

3.4.3 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.

3.5 PERFORMANCE OF WORK:

3.5.1 The Contractor shall keep on the work site a copy of the drawings and specifications and shall always give the Contracting Officer access thereto. Anything mentioned in the specifications and not shown on the drawings or shown on the drawings and not mentioned in the specifications, shall be of like effect as if shown or mentioned in both. In case of difference between drawings and specifications, the specifications shall govern. In case of discrepancy in the figures, in the drawings, or in the specifications, the matter shall be promptly submitted to the Contracting Officer, who shall promptly make a determination in writing. Any adjustment by the Contractor without such a determination shall be at its own risk and expense. The Contracting Officer shall furnish from time to time such detailed drawings and other information as considered necessary, unless otherwise provided

3.5.2 Services shall be conducted in conformity with the Specifications, the Drawings, and this SOW. All work shall be done in a neat and workmanlike manner and in keeping with generally accepted standards for similar work. Services shall be performed in accordance with 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.

3.5.3 The Contractor must within 24 hours of notice that a delay will be incurred notify the CO in writing. This letter must identify what the delay is, why there will be a delay, how long, and what the contractor is doing to mitigate the duration of the delay. Also, the Subcontractor shall take all actions in his control to prevent delays from occurring, and to minimize any delay should it occur.

3.5.4 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 CO.

3.5.5 Before starting any work, thoroughly inspect and document the existing conditions of the construction area and adjacent properties. This documentation

will serve as a baseline to prevent disputes regarding damage potentially caused by contract-related activities.

3.5.6 Damage to located underground utilities will be repaired at the Contractor's expense. Repairs shall replace the damaged section "in kind" for storm sewer, sanitary sewer, gas lines, and water lines; or replace the entire run to the current standard in the case of communication or electrical.

3.6 JOBSITE MAINTENANCE AND STORAGE AREAS:

3.6.1 The Contractor shall maintain the jobsite and staging areas in conformance with the standards below and as directed and approved by the CO.

3.6.2 Lay down / staging areas shall be always kept neat and free of loose debris. Grass shall be cut and maintained regularly. Height and maintenance shall be consistent with Base standards and consistent with the immediate area.

3.6.3 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.

3.6.4 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.

3.6.5 If allowed by the contract and if approved by the CO, 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 before unit is moved to Base.

3.6.6 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 is 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 always maintained neatly.

3.6.7 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 properly.

3.6.8 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 CO and shall include closing all openings; removing all loose materials, tools, and equipment from exposed locations; securing all material, tools, equipment and construction work; as well as removing or securing scaffolding and other temporary work. The Contractor shall also coordinate all efforts with the CO and follow the Base Commander's direction in the event of an upcoming storm or hurricane which

may range from securing sites to complete demobilization of all equipment and material from the base.

3.7 SUPERVISION:

3.7.1 At all times during performance of this contract and until the work is completed and accepted, the Contractor shall directly superintend the work or assign and have on the worksite a competent superintendent who is satisfactory to the Contracting Officer and has the authority to act for the Contractor.

3.7.2 At all times during performance of this contract and until the work is completed and accepted, the Contractor shall have on the worksite a competent Quality Assurance / Quality Control (QA/QC) Officer who is satisfactory to the Contracting Officer and has authority to act for the Contractor.

3.7.3 The roles of Superintendent and QA/QC must be performed by two separate individuals.

3.7.4 The Contractor shall provide a written notification to the CO of the names and contact information (phone number, and email) of a minimum of two Contractor Representatives that will be responsible for this project and have 24-hour contact availability to answer any questions or address any issues that may arise related to this project.

3.8 ACCESS:

3.8.1 The CO shall always have access to the Contractor's equipment, materials, supplies, assigned areas and sites of operation for inspection purposes.

3.9 HOURS OF OPERATION:

3.9.1 The Contractor will be able to accomplish this work between the hours of 7:00 AM and 5:00 PM. The Contractor will not normally be permitted to work on weekends or on the following federal holidays (or the day the Federal Government observes these holidays) unless approved by the CO. To be approved by the CO, the Contractor shall provide documentation showing work performed outside the hours of work will benefit the project's mission. Sundays will generally not be approved for weekend work. If approved by the CO, the Contractor shall coordinate such work with the CM at least seven (7) calendar days in advance:

New Year's Day	Labor Day
Martin Luther King Jr. Day	Columbus Day
Washington's Birthday	Veteran's Day
Memorial Day	Thanksgiving Day
Juneteenth	Christmas Day
Independence Day	

The following days are not federal holidays but may require work stoppage: Special Olympics-Thursday through Sunday of first non-training weekend in May

3.10 PERMITS:

3.10.1 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.

3.10.1.1 The following permits must be obtained anytime referenced work is required:

3.10.1.1.1 DIG PERMIT – MS811

3.10.1.1.2 BURN PERMIT - Keesler AFB Fire Department (certified personnel only)

3.10.1.1.2.1 Physical address is 806 Hangar Rd, Biloxi, MS 39534 or phone (228) 377-3330

3.10.1.1.3 CONFINED ENTRY PERMIT - BOS/CE CM or Safety Office; Notification to Fire Department of actual day and time work is accomplished.

3.10.1.1.3.1 Physical address is 508 L Street, Biloxi, MS 39534 or phone (228) 377-7771

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 calendar days in advance with the CM 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 shutdown or start-up any mechanical, electrical and/or plumbing system without the coordination and/or permission of the CO.

3.12 HEALTH AND SAFETY ON GOVERNMENT INSTALLATIONS:

In performing work under this contract on a Government installation, the contractor shall:

3.12.1 Take all reasonable steps and precautions to prevent accidents and preserve the health and safety of contractor and Government personnel performing or in any way coming in contact with the performance of this contract; and

3.12.2 Take such additional immediate precautions as the contracting officer may reasonably require for health and safety purposes.

3.12.3 The contracting officer may, by written order, direct Department of the Air Force Occupational Safety and Health (AFOSH) Standards and/or health/safety standards as may be required in the performance of this contract and any adjustments resulting from such direction will be in accordance with the Changes clause of this contract.

3.12.4 Any violation of these health and safety rules and requirements, unless promptly corrected as directed by the contracting officer, shall be grounds for termination of this contract in accordance with the Default clause of this contract.

3.13 JOBSITE SAFETY:

3.13.1 At all times during performance of this contract and until the work is completed and accepted, the Contractor shall have on the worksite a competent safety officer

who is satisfactory to the Contracting Officer and has authority to act for the Contractor. Circumstantially, this role may be filled by a qualified Superintendent or a Qualified QA/QC upon approval by the CO.

3.13.2 Safeguard the public and Government personnel, property, materials, supplies, and equipment exposed to Contractor operations and activities; avoid interruptions of Government operations and delays in project completion dates; and control costs in the performance of this contract.

3.13.3 For these purposes on contracts for construction or dismantling, demolition, or removal of improvements, the Contractor shall:

3.13.3.1 Provide appropriate safety barricades, signs, and signal lights;

3.13.3.2 Comply with the standards issued by the Secretary of Labor at 29 CFR Part 1926 and 29 CFR Part 1910;

3.13.3.3 Ensure that any additional measures the Contracting Officer determines to be reasonably necessary for the purposes are taken.

3.13.4 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 Contractors also adhere to OSHA Guidance. OSHA compliance officers can visit Contractor worksites on the installation.

3.13.5 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 CO.

3.13.6 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 CO.

3.13.7 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.

3.13.8 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.

3.13.9 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.

3.14 Contractor Access to Department of the Air Force Installations

3.14.1 The contractor shall obtain base identification, and vehicle passes, if required, for all contractor personnel who make frequent visits to or perform work on the Department of the Air Force installation(s) cited in the contract. Contractor personnel are required to wear or prominently display installation identification badges or contractor-furnished contractor identification badges while visiting or performing work on the installation.

3.14.2 Passes for Contractor employees may be requested through the 81st Civil Engineer Squadron. Requests shall include full name of employees as it appears on their identification, length of pass needed (up to 30 days), and days needed (if other than standard working hours).

3.14.3 Upon contract award, Superintendents will complete a Keesler AFB (KAFB) Form 299, Application for KAFB Identification Card. After issuance of a DBIDS identification card, the Superintendent will submit a KAFB Form 298, Appointment/Termination Record - Signature Card which will grant the Superintendent the role of a Pass and ID Alternate Issuing Official. This role will enable the designated superintendent to function as a sponsor and request passes for all contractor and sub-contractor personnel performing work on the installation cited in the contract. Contractor personnel who are non-US citizens are required to be escorted by a Superintendent with escort privileges. Non-US Citizen contractor personnel must be always escorted while on the installation and when entering and exiting the installation. Superintendents may only escort up to six non-US citizen contractor personnel at a time.

3.14.4 Paperwork required for passes: Only documents meeting the security standards set by the REAL ID Act of 2005 will be accepted.

3.14.4.1 For vehicle operators:

3.14.4.1.1 Current driver license for each employee in support of work on Keesler AFB.

3.14.4.1.2 Vehicle Registration and Proof of Insurance.

3.14.4.2 For non-vehicle operators:

3.14.4.2.1 Current driver license, official ID card, or passport.

3.14.5 During performance of the contract, the contractor shall be responsible for obtaining required identification for newly assigned personnel and for prompt return of credentials and vehicle passes for any employee who no longer requires access to the work site.

3.14.6 When work under this contract requires unescorted entry to controlled or restricted areas, the contractor shall comply with [insert any additional requirements to comply with DAFI 31-101, Integrated Defense, and DODMAN5200.02_DAFMAN 16-1405, and Air Force Personnel Security Program.

3.14.7 Upon completion or termination of the contract or expiration of the identification passes, the prime contractor shall ensure that all base identification passes issued to employees and subcontractor employees are returned to the issuing office.

3.14.8 The contractor shall provide an after-hours contact number or after-hours email in the Emergency Mass Notification System (EMNS) for each of their personnel, whose normal place of duty is on a DoD installation or within a DoD facility. The

contractor shall comply with any additional requirements in DAFMAN 10-206 for emergency operational reporting. Foreign Nationals may participate and may remove themselves from the Emergency Mass Notification System at any time. To update information, personnel can access the globe icon on their system desktop screens and choose the "Access Self-Service" option.

3.14.9 Failure to comply with these requirements may result in withholding of final payment.

3.15 REPORTING REQUIREMENTS:

The Contractor shall comply with AFI 71-l0l, 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.

3.16 PHYSICAL SECURITY:

3.16.1 Areas controlled by Contractor employees shall comply with Base Operations Plans/instructions for FPCON 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.

3.16.2 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.

3.17 VEHICLE SAFETY AND TRAFFIC LAWS:

3.17.1 The Contractor and its employees shall comply with base traffic laws and regulations.

3.17.2 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.

3.17.3 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.

3.17.4 Airfield Driving: All Contractors must have an escort or receive airfield drivers training 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.

3.17.5 Cellular Phones: The use of cellular phones while operating a vehicle is prohibited while on Keesler AFB property.

4.0 ENVIRONMENTAL:

4.1 RECYCLED CONTENT AND BIO BASED PRODUCTS:

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. 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 CO upon completion of performance (construction).

4.2 ENVIRONMENTAL PROTECTION:

Contractor personnel shall, always, 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 BOS/CEV environmental representative at 228-377-1262.

4.3 ELIMINATION OF USE OF CLASS I OZONE DEPLETING SUBSTANCES (ODS)

4.3.1 Contractors shall not:

4.3.2 Provide any service or product with any specification, standard, drawing, or other document that requires the use of a Class I ODS in the test, operation, or maintenance of any system, subsystem, item, component, or process; or

4.3.2.1 Provide any specification, standard, drawing, or other document that establishes a test, operation, or maintenance requirement that can only be met by use of a Class I ODS as part of this contract/order.

4.3.3 For the purposes of Department of the Air Force policy, the following products that are pure (i.e., they meet the relevant product specification identified in AFI 32-7086[AR2]) are Class I ODSs:

4.3.3.1 Halons: 1011, 1202, 1211, 1301, and 2402;

4.3.4 Chlorofluorocarbons (CFCs): CFC-11, CFC-12, CFC-13, CFC-111, CFC-112, CFC-113, CFC-114, CFC-115, CFC-211, CFC-212, CFC-213, CFC-214, CFC-215, CFC-216, and CFC-217, and the blends R-500, R-501, R-502, and R-503; and

4.3.4.1 Carbon Tetrachloride, Methyl Chloroform, and Methyl Bromide.

4.4 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. In the event material is discovered that could be hazardous and requires testing for proper identification, the Contractor must immediately notify BOS/CEV environmental representative at 228-377-1262.

4.4.1 **Solid Waste Management**:

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

4.4.1.2 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 waste, special handling requirements, and scheduling for waste and recycle collection.

4.4.1.3 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.

4.4.1.4 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.

4.4.1.5 Contractors shall provide these records to the CO in accordance with contract requirements.

4.4.1.6 Manage solid waste in accordance with the Keesler AFB Integrated Solid Waste Management Plan.

4.4.1.7 For any questions regarding solid waste, please contact BOS/CEV at 228-377-1262.

4.5 HAZARDOUS MATERIALS:

In the event 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.

4.6 STORM WATER MANAGEMENT:

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

4.6.1 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.

4.6.2 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).

4.6.3 The Contractor shall furnish BOS/CEV copies of the Permit application, SWPPP, Permit, confirmation letter from the MDEQ and any other pertinent storm water information related to the project.

4.6.4 The initial storm water permit application and original SWPPP shall be submitted to BOS/CEV for review and comment prior to or at the time of submittal to the MDEQ.

4.6.5 The Contractor shall comply with all provisions of the Permit throughout the duration of the project.

4.6.6 Any construction site/land disturbance activity greater than 20,000 sq/ft, but < 1 acre shall have a SWPPP prepared and submitted to BOS/CEV for approval prior to construction or implementation of the land disturbance activity.

4.6.7 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 BOS/CEV copies of storm water training credentials for all pertinent employees prior to commencement of construction activities. BOS/CEV training information is available to the Contractor.

4.6.8 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.

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

4.7 <u>REQUIRED ASBESTOS ABATEMENT AND MANAGEMENT PROCEDURES</u>:

These steps are in accordance with Air Force Instruction (AFI), EPA, and MDEQ. OSHA regulations govern all worker safety requirements and must be always complied with by the Contractors and sub-Contractors. These requirements are summarized in the Keesler Air Force Base Asbestos Operations and Management Plan.

4.7.1 The following steps are required by all personnel or Contractors doing work on Keesler AFB:

4.7.1.1 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) for the Keesler Environmental Section (BOS/CEV) at 228-377-1262 or EMCS (228- 377-4179) after hours.

4.7.1.2 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).

4.8 <u>NO ABATEMENT WORK IS TO BEGIN WITHOUT WRITTEN APPROVAL FROM THE APOC</u>:

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.

4.8.1 **Before**: The following documents must be submitted to the CO and approved in writing before abatement can begin:

4.8.1.1 10 Day MDEQ notification and return acknowledgment letter.

4.8.1.2 Asbestos Hazard Abatement Plan (to be certified by a Mississippi Certified Management Planner and/or Certified Industrial Hygienist).

4.8.1.3 Asbestos Work Plan (scope of work, removal procedures, worker protection, air monitoring, disposal location, containment procedures).

4.8.1.4 MDEQ Asbestos Abatement Certification for the Company.
4.8.1.5 Supervisor's qualifications and state certification.
4.8.1.6 CURRENT State Certifications (applications will not be accepted) for all individuals working on site.
4.8.1.7 Respirator fit tests for all individuals.
4.8.1.8 Physicals for all individuals.

4.8.2 **During**: Once the submittals are approved in writing, the following actions are required:

4.8.2.1 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.

4.8.2.2 The Asbestos POC routinely checks the abatement work to ensure the containment area and critical barriers are secure, the workers are wearing the appropriate personal protective equipment, the asbestos-containing material is being bagged appropriately, and 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 no uncertified individuals are performing abatement work.

4.8.2.3 Upon completion of the abatement work, the Contractor contacts the Asbestos POC to conduct a walk-through of the area and approve all abatement has been completed and 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.

4.8.2.4 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.

4.8.2.5 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).

4.8.3 **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:

4.8.3.1 Air sampling results.
4.8.3.2 Daily report logs.
4.8.3.3 Daily workers sign in/out sheets.
4.8.3.4 Waste manifest (Generator Copy)

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

4.9 <u>REQUIRED LEAD-BASED PAINT MANAGEMENT PROCEDURES</u>:

Appropriate OSHA worker protection is the responsibility of the employer. All projects will be monitored and inspected by BOS/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.

4.9.1 **Non-child occupied/ commercial buildings**:

4.9.1.1 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 BOS/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 BOS/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.

4.9.1.2 The Contractor shall meet with BOS/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 BOS/CEV).

4.9.1.3 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).

4.9.1.4 The Contractor, under OSHA rules, must comply with the lead-based paint rules (including notification to BOS/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.

4.9.1.5 BOS/CEV will inspect all projects involving Lead Based Paint removal and any required documentation must be provided to BOS/CEV prior to beginning work.

4.9.2 **Child-occupied/target housing buildings**:

4.9.2.1 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 BOS/CEV before start of any project.

4.9.2.2 A paint Contractor must collect paint chips in their own clean buckets and have BOS/CEV dispose (if contract requires BOS/CEV dispose). Contractor must place plastic on the ground sufficient to capture all loosened paint chips and control water run-off.

4.9.2.3 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.

4.10 TESTING LABORATORY AND EQUIPMENT:

4.10.1 Employ certified independent laboratories to perform sampling and testing. The testing laboratory organization shall be certified for the type of testing work to be done.

4.10.2 All measuring devices, laboratory equipment, and instruments shall be calibrated at established intervals against certified standards in accordance with NIST requirements. Upon request, measuring and testing devices shall be made available for use by the Government for verification tests.

4.10.3 Radiation Equipment Permits and Authorizations. Contractors contemplating the use of devices containing radioactive materials (i.e., soil moisture/density probes) or non-ionizing radiation producing equipment (radio frequency radiation emitters or lasers) while performing work on this contract must obtain written authorization/permit from the Keesler AFB Bioenvironmental Engineering Flight, 81st Operation Medical Readiness Squadron (OMRS). To obtain the required authorization permit, an application to bring a radioactive device on Keesler AFB must be forwarded to 81st MDG/OMRS, (mailing address, physical address is 301 Fisher St, Biloxi, MS 39534 or phone (228 377-3808)), at least 45 days prior to the anticipated use. Without the proper authorization, Contractors will not be allowed to bring these devices on base. If radioactive material will be brought onto Keesler AFB, the Contractor shall provide Bioenvironmental Engineering (81 MDG/OMRS) a copy of contractor's radioactive materials permit and training certificates.

5.0 DELIVERABLES

5.1 INSPECTION AND ACCEPTANCE:

5.1.1 Inspection and Acceptance of services will be performed at Keesler AFB, Mississippi by the Facility Manager (FM) and/or Facility Commander, Contracting Officer (CO), Contract Specialist (CS), 81 CES Representatives, the BOS/CE Contract Monitor (CM), and any other applicable inspectors. Inspection and acceptance will be conducted in accordance with this SOW.

5.1.2 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.

5.1.3 Pre-Final Inspection:

5.1.3.1 The Contractor shall email 81 CONS to request an inspection when all work is complete, and the construction site is ready to be turned over to the Government. The CM will verify the Contractor is ready and will schedule a pre-final inspection for the purpose of establishing a formal punch-list. The pre-final inspection will consist of an exhaustive review of all work and conclude with a thorough and complete punch-list. The

punch-list established at the pre-final inspection will be the formal punch-list reviewed at the final inspection.

5.1.3.2 The Contractor shall complete the punch-list items and inform the CM they are ready for a final inspection. The CM will conduct an inspection of the site and confirm the punch-list items established at the pre-final inspection have been addressed in its entirety.

5.1.3.3 If it is found the Contractor is not ready for final inspection the CM will notify 81 CONS, who will then ensure the Contractor is informed in writing. Also, at this time, the CM will identify any additional items which may have resulted from the Contractor working the pre-final punch-list items. If additional items are identified, the CM will send this new punch-list to 81 CONS for distribution to the Contractor.

5.1.3.4 The new punch-list becomes the revised formal punch-list and will be used at the final inspection. If the Contractor creates additional punch-list items working the revised punch-list, the process will repeat until the CM no longer identifies punch items.

5.1.3.5 It is the sole responsibility of the Contractor to complete all punch items at no additional cost to the Government.

5.1.4 Final Inspection:

5.1.4.1 Upon verification of the completion of the final formal punch-list, the CM will schedule the Final Inspection.

5.1.4.2 The final inspection is expected to only consist of reviewing and confirming resolution of the final formal punch-list items established at the pre-final inspection.

5.1.4.3 Partial final inspections are done when work is being completed in phases and will be conducted on any space(s) within a project that is to be turned over to the Government before the completion of the project at large (ex: a particular hallway, room, wing etc.). If the entire construction site is being turned over to the Government at project completion, a partial final inspection is not necessary and a final inspection will be conducted.

5.2 <u>INSTALLED EQUIPMENT</u>:

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.

5.2.3 Submit two (2) hard copies in a notebook binder, and one (1) electronic copy.

5.3 <u>REPORTS</u>:

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 <u>AS BUILT DRAWINGS</u>: 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.

6.0 CONTRACT TECHNICAL MONITOR:

6.1 The CM and PM are Keesler BOS contractor employees assigned to interface with the construction 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 Request for Information (RFI), which will be countersigned by the CO. The CM and PM will be identified at Pre-Construction Conference.

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 by the Contracting Officer prior to work being performed.