

SECTION 01 14 19 – COORDINATION

PART 1 - GENERAL

1.01 TERMS

The initials “CO” shall mean the *Contracting Officer*. The initials “COR” refer to the *Contracting Officer’s Representative*. The *Contracting Officer’s Representative* will be the Construction Manager assigned from the 19th Civil Engineer Squadron to monitor this contract during construction. This is applicable to all specification sections.

1.02 WORK SCHEDULE

- A. Little Rock Air Force Base work hours are 7:30 a.m. to 4:30 p.m. all days of the week except Saturday, Sunday, Federal Holidays and AMC Family Days (listing to be provided annually once received by the Government). *Contractor* shall not perform any work outside of these work hours without obtaining written approval from the *Contracting Officer*. If weekend or evening work is required due to utility outages or other requirements, such work shall not be performed without prior written approval of the *Contracting Officer* and such work shall be accomplished at no additional cost to the *Government*. The *Contracting Officer* requires at least three (3) business days’ notice, in writing, from the *Contractor* to provide written approval or disapproval.

1.03 UTILITIES

- A. Existing electrical service to the facility shall be maintained until new electrical service is in place and ready for operation.
- B. Utility interruptions shall be approved by the *Contracting Officer*. The *Contractor* shall submit to the *Contracting Officer* a written request for such work at least three (3) weeks prior to the desired date. The following shall apply:
1. Electrical primary power outages will be performed by Entergy Arkansas Inc. and shall be fully coordinated with the *Contracting Officer’s Representative*, *LRAFB Utility Privatization Liaison* and Entergy Arkansas Inc. The *Contractor* shall submit to the *Contracting Officer’s Representative* and *LRAFB Utility Privatization Liaison* a written request for such work at least three (3) weeks prior to the desired date. Electrical primary outages shall be limited to four (4) hours.
 2. Water outages will be performed by the 19th Civil Engineer Squadron and shall be fully coordinated with the *Contracting Officer’s Representative*.
 3. Communications Utilities.

The *Contractor* shall not disturb communication wiring to facilities. Where such facilities require removal of communication equipment and wiring to accomplish the work involved, the *Contractor* shall notify the *Contracting Officer* at least five (5) work days in advance of the requirement, for scheduling such removals by the *Government*. The *Contractor* shall allow for the accomplishment of such removals by the telephone company or communications personnel for the systems they service. If construction activities damage any communication equipment or wiring, the *Contractor* shall restore services as soon as possible, but no later than 24-hours, and at no cost to the *Government*.

4. Excavating Around or Locating Existing Utilities.

Prior to the start of work, the *Contractor* shall identify and locate all valve or utility shut-off locations for use in the event of accidental damage. To preclude accidental damage, the

Contractor shall locate all known utilities (i.e., communication, natural gas, fuel supply, etc.) by hand digging prior to any excavation with power equipment. The *Contractor* shall note any utilities discovered during excavations that are missing or incorrect on the contract drawings (including any erroneous dimensions on *Government* record drawings), or those utilities staked by the user, and clearly identify those discoveries on the as-built drawings.

5. Ground Penetrating Radar

On all projects where excavation of any kind is required Ground Penetrating Radar(GPR) shall be accomplished by the Contractor to locate all subsurface structures, utilities, etc. The GPR equipment shall identify all underground structures to a depth of 8 feet. Coordinates provided shall be within an accuracy of 4 inches. GPR equipment shall include GPR antenna, electromagnet pipe locator, Traceable Rodder and GPS as required to meet depth and accuracy described above. Deliverables shall include the following:

- a. Autocadd showing all utilities found using GPR.
- b. All information in GIS.
- c. See section 01 33 00 1.03 Geographic Information System (GIS) Service for detailed information regarding requirements for GPR deliverables.

1.04 PROTECTION OF EXISTING FACILITIES

- A. The *Contractor* shall conduct and schedule all work in a manner to cause as little disruption as possible to the existing facilities and operation. Phase work as may be required by this contract.
- B. The *Contractor* shall ensure that the existing building is maintained weatherproof at all times. The buildings HVAC system shall also be maintained in full operating order by the *Contractor*, as needed to complete the scope of work. The *Contractor* shall provide and install 40% efficient construction filters and shall maintain the filters throughout the construction timeframe in all return air, outside air and exhaust air inlets in the construction area or where dust and debris may enter the duct.

1.05 SITE VISITATION

- A. The *Contractor* shall be responsible to visit the project site prior to, and during, the course of construction to verify existing conditions, actual sizes, and other requirements outlined in the other sections of the specifications.
- B. Existing Facilities/Job Site Verification.

Record drawings, showing existing facilities and underground utilities, are available to the *Contractor* through the Base Civil Engineer office. The *Government* does not guarantee the accuracy, availability or adequacy of existing as-built/record drawings. The *Contractor* is responsible to verify all dimensions and actual conditions when developing their contract proposal. Failure to verify the dimensions and locations will be at the *Contractor's* risk and shall not relieve the *Contractor* from accomplishing the work required by the contract at the price awarded by the *Government*. The *Contractor* shall immediately repair any utility line shown on a record drawing (or made known to the *Contractor*) and damaged during construction work, at no cost to the *Government*.

1.06 BASE REGULATIONS

The *Contractor* shall conform to all base regulations and directives pertaining to security, safety, debris removal, fire, traffic and personnel clearances, insofar as they pertain to the

Contractor's activities on Little Rock Air Force Base. *Contractor* shall ensure conformance by all employees and Sub-*Contractors*.

1.07 FIRE PROTECTION

The *Contractor* shall be responsible for conformance with base fire regulations and NFPA 241, including Appendix A. These regulations are available for review during duty hours at the Base Fire Station located in Building 239. Fire extinguishers required during the construction period shall be furnished and maintained by the *Contractor* and removed by the *Contractor* upon acceptance of the facility by the *Contracting Officer*. No welding/cutting and open flame operation shall be allowed in facilities when automatic fire detection and suppression systems are out of service unless the *Contractor* posts a fire guard for 24 hours after welding/cutting and open flame operation or certifies the facility fire safe.

1.08 WELDING PERMIT

- A. Prior to performing any welding, cutting or brazing, the *Contractor* shall obtain a properly completed AF Form 592 (Burning Permit) from the 19 CES Fire Department. A permit is required per job, per day. *Contractor* shall return all welding, cutting, or brazing permits to the 19 CES Fire Department at the end of each week, at a minimum. The *Contractor* shall maintain a fully charged fire extinguisher on site at all times regardless as to whether or not welding, cutting, or brazing is being performed.
- B. Hot Welding (delete paragraph if no JP8 pipeline welding, UST/AST work, or other fuels work is being done): A step by step plan shall be submitted 15 days prior to hot welding to the *Contracting Officer* and accepted by AMC. The plan shall cover the location of the weld, material to be used, size of the line, material in the line, safety precautions, welding procedures, etc. The *Contractor* shall comply with 29 CFR 1917.152 welding, cutting, heating (Hot work) and 29 CFR 1926 subpart J welding, cutting Fire prevention. The *Contractor* shall be responsible to verify a vapor free environment as defined by 29 CFR 1917 with a Backarach 514M meter. The *Government* will not supply the meter. The plan shall also contain the dates of the proposed welds and the estimated time the fuel lines will be down. A Command Certified Liquid Fuels Manager (LFM) shall be on site during all hot work. NO WORK SHALL PROCEED UNTIL THIS PLAN IS APPROVED.

1.09 CONSTRUCTION PERMIT (DIGGING PERMIT)

- A. A properly completed AF Form 103, Base Civil Engineering Work Clearance Request, shall be obtained by the *Contractor* prior to performing any excavation.
- B. A separate AF Form 103 is shall be obtained by the *Contractor* for each excavation to be accomplished.
- C. *Contractor* shall submit a request for AF Form 103 a minimum of 14 calendar days and a maximum of 28 days prior to desired start of excavation. The *Contractor* shall allow a minimum of 14 calendar days for processing.
- D. Each request shall be in writing and designate the location of the proposed excavation and the scheduled date.
- E. The completed AF Form 103 will contain information for locating existing utilities and telephone lines. The *Contractor* shall keep the AF Form 103 at the excavation site and shall comply with instructions for hand excavation and with other methods of safeguarding the buried utilities.

- F. In addition to the requirement to obtain a construction permit and prior to any excavation, the *Contractor* shall perform a pipe/cable location survey using a variety of modern locating equipment suitable for locating various types of pipe and cable. The *Contractor* shall use a signal generating locator such as a Goldak Gold Digger 4400 for metallic pipe and cable. For non-metallic pipe use a vibration generator such as a Fuji Tecom PL-130 or an RD-500. For non-metallic sewer pipe use a snake with attached generator. The *Contractor* shall mark all locations on the ground. The *Contractor* shall submit a sketch showing the found locations of utilities to the *Contracting Officer's Representative* for approval prior to beginning excavation. The *Contracting Officer's Representative* will provide available information as to the existence and location of known utilities with the approved construction permit. The *Contractor* shall be responsible for repairing damage to utilities, whether known or unknown, due to any failure on the *Contractor's* part to perform a rigorous survey.

1.10 ASBESTOS Removal of Asbestos Containing Material (ACM) shall be accomplished by this contract per the requirements of Department of Environmental Quality (DEQ) Regulation 21. ACM shall be removed as a part of lump sum cost for this contract. The Contractor shall be responsible for notifying the Contracting Officer and Contracting Officer's Representative of any additional asbestos discovered during construction/demolition. The Contracting Officer will obtain testing of the material in question and instruct the Contractor accordingly.

- B. Abatement Contractor shall submit for approval a copy of the company's license to do abatement in the state of Arkansas and date of expiration. Insurance shall be in compliance with and as required by ADEQ for abatement in the state of Arkansas. All workers and supervisors shall have current certification issued by the state of Arkansas.
- C. LRAFB requires its contractors to comply with Arkansas Pollution Control and Ecology Commission (#014.00-021) Regulation No 21. Arkansas Asbestos Abatement Regulation. ACM surveys, removal, transportation and disposal shall be completed by an DEQ approved/licensed abatement contractor. An ACM Abatement Contractor is responsible for providing ADEQ Notice of Intent (NOI) 10 days prior to starting removal. The Abatement Contractor shall provide clean air documentation that the facility is safe to return to normal activities upon completion of abatement. The Abatement Contractor shall provide a separate report including waste shipment records signed by the disposal facility showing all asbestos was removed and disposed of per regulatory requirements within 30 days of removal.
- D. The DESIGN-BUILD FIRM shall demolish/abate the built up roof down to concrete deck.

1.11 CHLOROFLUOROCARBON (CFC) REFRIGERANTS: Restrictions, Precautions and Controls

- A. The *Contractor* shall not vent or cause to be vented chlorofluorocarbon (CFC) and hydrochlorofluorocarbon (HCFC) refrigerants (R-11, R-12, R-22, R-113, R-114, R-115, R-501, R-502, or any other mixtures containing CFCs) to the atmosphere during repair or maintenance work on the equipment covered by this Contract.
- B. The *Contractor* shall have available refrigerant recovery or reclaim equipment to perform the work. The *Contractor* shall submit to the *Contracting Officer* a copy of the EPA registration of the recovery equipment. This registration shall also be provided during warranty work, if the equipment used is different than that used during construction.

- C. *Contractor* personnel who operate refrigerant reclaim or recycling equipment shall possess the necessary state and local certificates for operating that equipment. The *Contractor* shall submit to the *Contracting Officer* a copy of the CFC certification for the personnel removing the refrigerant. This certification shall also be provided during warranty work, if the personnel involved are different than those who installed the equipment.
- D. *Contractor* shall be responsible for meeting all requirements, permitting the licensing and certification required by state or local ordinance to work on refrigeration systems.
- E. The *Contractor* shall provide containers for the reclaimed refrigerant and shall return all reclaimed refrigerant and containers to the *Government* and provide documentation of the quantity recovered.
- F. Replacement compressors and other replacement equipment used in repairing CFC-containing systems shall be compatible with CFC replacement refrigerants. If such would result in an increase in cost, the *Contractor* shall notify the *Contracting Officer* prior to the replacement.

1.12 LEAD BASED PAINT (LBP) AND COATINGS CONTAINING LEAD

- A. This Contract may involve disturbance or demolition of construction material coated with LBP and/or coatings that may contain some level of lead. The *Contractor* will test representative surfaces to be disturbed under this contract using an X-ray fluorescence (XRF) analyzer or Laboratory Analysis and results will be provided with each project. If a laboratory is used for lead analysis, the lab must be accredited by the National Lead Laboratory Accreditation Program (NLLAP). The *Government* will not be the removal agent for LBP or coatings containing lead.
- B. Results of the XRF analysis with readings from .0 mg/cm² up to .9 mg/cm² are considered inconclusive and indicate only that a trace amount of lead may be present, but still may easily present an exposure hazard to workers. Lead-based paint means paint or other surface coatings that contain lead equal to or greater than 1 mg/cm². The *Contractor* at no additional cost to the *Government* shall accomplish any further sampling or testing required to comply with any law, standard, or regulation. The *Contractor* shall provide a copy of all test results to the *Contracting Officer's Representative*.
- C. The *Contractor* shall submit a written plan prepared by a competent person detailing demolition, removal, disposal and clean-up processes and procedures to be followed when dealing with the items addressed in this section. Precautions to ensure *Government* or other personnel near the work are not exposed to lead above accepted levels shall be included in the plan.
- D. The *Contractor* shall handle and dispose of all construction materials coated with LBP and/or coatings containing lead in accordance with all federal, state, local, and base laws/regulations. The *Contractor* shall collect and analyze samples of demolition debris coated with LBP or coatings containing lead, including surface coatings that have been removed, to determine if the debris should be characterized as hazardous waste. All waste that has been deemed hazardous shall be disposed of through the base Defense Reutilization and Marketing Office (DRMO). *Contractor* shall adhere to the following requirements and procedures for disposal: Some waste may be recycled in accordance with Section 01 45 00 QUALITY CONTROL of this specification.

1. Present HAZMO/CAP (Bldg. 1575, 987-5247) with analytical results and ORG shop code.
2. Make appointment with DRMO, 987-3715. Waste must be to DRMO within 3 days after HAZMO/CAP has logged in the waste.
3. Deliver waste (Properly containerized and labeled per DOT 49 CFR 173) along with analytical results sheet, and paperwork provided by HAZMO/CAP (DRMS Form 1930, DD Form 1348 and AF Form 2005) to DRMO per scheduled appointment.

1.13 FLUORESCENT BALLAST AND LAMP DISPOSAL

- A. All ballasts from demolished light fixtures shall be examined for markings, labels, etc. that identify the presence (or absence) of PCB's. If no identifying Non-PCB characteristics can be determined, the ballast shall be considered as being PCB ballast. It shall be containerized, processed through the Hazardous Material Office (HAZMO), and then turned in to DRMO for PCB disposal. The ballasts that are clearly identifiable as Non-PCB may be recycled or disposed as solid wastes. The hours of the HAZMO office are 0700 to 1600, M-F, 987-5247. The *Contractor* shall call DRMO in advance for a turn-in appointment @ 987-3715. The *Contractor* shall not attempt to (1) turn-in PCB ballast without processing said items through the HAZMO and (2) deliver same to DRMO without an appointment.
- B. Container: *Contractor* shall store all PCB ballasts in either new UN approved steel or plastic open head drums as specified in 49 CFR 178.504 and 509. All used and/or reconditioned containers are unacceptable. The steel or plastic drums may not exceed 55 gallons in size. The total weight of container and PCB ballasts must not exceed the inscribed manufacturer container weight specifications. *Contractor* may store PCB containers on-site up to one week (five days), at which time the container shall be turned in to DRMO. The *Contractor* may turn in PCB containers at a more frequent rate, e.g., daily, etc., if so desired. PCB containers shall be stored within the confines of the immediate project site. The PCB containers shall not be exposed to the elements, placed in the open, nor allowed to collect rainwater. When not in use, each PCB container shall be covered with its appropriate lid. *Contractor* shall label each container as specified in 40 CFR 761 and 49 CFR 172.101. The number of PCB ballasts in each container shall be provided to the *Contracting Officer's Representative* prior to turn in to DRMO.
- C. Detached light fixtures that are clearly identified as having non-PCB ballasts shall be placed in *Government* supplied dumpsters which will be picked up, on site, by the Base Recycling Center.
- D. *Contractor* shall be responsible for all QA/QC functions required in segregating PCB ballasts from non-PCB ballasts. The HAZMO will not perform any inspection, segregation, or identification of said ballast for the *Contractor*. The *Contractor* is fiscally responsible for any improper disposal of PCB ballasts. The Arkansas Department of Environmental Quality shall be notified should any *Contractor* be found violating any State or Federal regulations on PCB ballast disposal.
- E. Fluorescent lamps shall be packaged, processed through the HAZMO, and then delivered to DRMO. *Contractor* may store fluorescent tubes in their original container or an appropriately sized cardboard box. In the event a cardboard box is used, each tube shall be protected from breakage by using appropriate egg crate or bubble-wrap packing.

1.14 OIL FILLED TRANSFORMER DISPOSAL

Any demolished transformer and medium voltage equipment that contains insulating liquid shall be tested for PCBs prior to turn in to DRMO. The turn in procedure is as follows:

- A. Oil filled transformers and other equipment containing insulating liquid must be tested for the presence of PCB's by the *Contractor* at the *Contractor's* expense.
- B. Equipment cannot be leaking. All caps/covers etc. must be tight.
- C. *Contractor* shall unload equipment themselves; there is no forklift support at DRMO on LRAFB.
- D. *Contractor* shall present HAZMO/CAP (Bldg. 1575, 501-987-5247) with analytical results, KVA rating, serial number, manufacturer, date equipment was taken out of service and an estimate of the original cost of the equipment. HAZMO will send proper forms to DRMO and inform *Contractor* to set up a turn-in appointment with DRMO.
- E. The *Contractor* shall call DRMO in advance of delivering the equipment to DRMO for a turn-in appointment @ (501) 987-3715.
- F. *Contractor* shall deliver and unload equipment to DRMO site on base per scheduled appointment.
- G. The *Contractor* shall provide DRMO a copy of the complete analysis at the time of turn-in.
- H. The *Contractor* will affix a single page of the analysis that reflects the PCB results for that particular piece of equipment to the side of the equipment.
- I. Equipment must be secured to a pallet prior to transport to DRMO.

1.15 RADIOACTIVE MATERIALS

- A. A request to bring radioactive materials onto Little Rock AFB shall be provided to the government at least 30 days prior to bringing materials onto the base. A copy will be given to the Bioenvironmental Engineer by the *Contracting Officer's Representative*.
- B. Before bringing any radioactive materials onto Little Rock AFB, the *Contractor* shall first submit the following information on an AF Form 3000, for review and approval by the 19th AW Bioenvironmental Engineer. Examples of materials that may contain radioactive materials are soil moisture and soil density testing instruments. Additional information on this subject can be found in AF 40-201 *MANAGING RADIOACTIVE MATERIALS IN THE U.S. AIR FORCE*.

http://static.e-publishing.af.mil/production/1/af_sg/publication/afi40-201/afi40-201.pdf

- C. Proper Nuclear regulatory Committee (NRC) or Arkansas State license (Includes NRC Reciprocity Form 241 and Arkansas State License). For DoE organizations and DoE *Contractor's* written certification that they are exempt from NRC license requirements is required.
- D. Copies of training certification for instrument operators.
- E. Dates and location of use on Little Rock AFB.
- F. Acknowledgement that instrument is transported in compliance with 49 CFR requirements.
- G. All testing equipment, containing a radioactive source, shall be operated in accordance with an approved radioactive equipment plan. This plan shall be submitted to the

Contracting Officer and approved by the 19th AW Bioenvironmental Engineer, prior to bringing the equipment on to Little Rock AFB.

This plan shall include:

1. The name and type of equipment.
 2. The type and size of radiation source.
 3. The dates and locations of the equipment's usage.
 4. The radiological controls that the *Contractor* will use while operating the equipment.
- H. A different radioactive equipment plan will be required for each different type of equipment, type of radioactive source, or size of radioactive source. A data sheet for each piece of radioactive equipment shall be submitted to the *Contracting Officer* to forward to the 19th AW Bioenvironmental Engineer. The data sheet shall contain the following information:
1. Name of equipment.
 2. Name and address of equipment manufacturer.
 3. Type and size of radiation source.
 4. The location of the radioactive equipment on LRAFB.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SECTION – COORDINATION