STATEMENT OF WORK
FOR
"Building 52 Windows – North"
PROJECT NO**: "M.0168242"**
Fort Leavenworth, KS
16 May 2026
Rev 01 30 Jul 2026

PROJECT # / NAME: B52 Windows − North
DATE: 5/16/26

SW-1 **DESCRIPTION OF WORK**

a. **General:** The contractor shall provide all supervision, management, personnel, labor, equipment, transportation, supplies, and any other items necessary to complete the B52 Window Replacement project. The work consists of furnishing all plant, labor, equipment, and materials to perform all work in strict accordance with the drawings and specifications to replace 186 windows around the North elevation of Building 52. Additionally, 6 "non-standard" lunette/multi lite windows will be repaired and 15 mechanical openings that will be replaced or repaired in-kind with MAPES Panels or louvers. B52 is a historic building and all work must conform to the Secretary of Interior's standard and guidelines for rehabilitation of historic properties.

b. **Government Representatives:** Representatives of the Directorate of Public Works will act as Project Oversight for the Contracting Officer/COR for each contract.

c. **Key Personnel Staffing Plan:** The contractor shall assign an employee other than the On-Site Superintendent who will serve as Project Manager for the course of this agreement. The official shall be responsible for being a liaison between the contractor and the Contracting Officer/COR or their designated representative. *The designation shall be in writing and a copy furnished to the Contracting Officer/COR within ten (10) days after signature of this contract.*

d. **Identification of Contractor Employees.** The contractor shall provide each employee an identification (ID) badge on contract start date or on employment start date. Contractor personnel shall wear the ID badge at all times when performing work under this contract to include attending Government meetings and conferences. Contractor employee shall wear the ID badge in a conspicuous place on the front of exterior clothing and above the waist except when safety or health reasons prohibit such placement.

e. **Wage Determinations:** The location and type of work to be performed will dictate the applicable Wage Determination to be associated with each individual contract.

f. **Required Insurance Coverage:** In conjunction with FAR Clause No. 52.228-5 entitled "Insurance Work on a Government Installation" the Contractor's insurance coverage shall include the following types with the minimum amounts of liability indicated herein.

TYPE MINIMUM AMOUNT
Workmen's Compensation and Employer's
$100,000 Liability Comprehensive General
Liability $500,000
(Bodily Injury) Per Occurrence Comprehensive Automobile
Liability

$200,000/$500,000 (Bodily Injury) Per Occurrence
$20,000 (Property Damage) Per Occurrence

g. **Rough Order of Magnitude**: In accordance with FAR 36.204 - Disclosure of the Magnitude of Construction Projects. Advance notices and solicitations shall state the magnitude of the requirement in terms of physical characteristics and estimated price range. In no event shall the statement of magnitude disclose the Government's estimate. Therefore, the estimated price should be described in terms of one of the following price ranges: Between $1,000,000 and $5,000,000.

SW-2 **PRINCIPLE FEATURES** The work to be performed includes the following principal features:

a. Specific principal features.

1. The building is to remain operational during the entire project and per normal working hours. Although desks may be moved within a room or elsewhere, Contractor is to assume people will be working within the same room where windows are being replaced.
2. Remove existing windows and wood frames (window buck) according to the window schedule.
    a. Remove and protect the existing interior casing, trim, and window shade devices as necessary to replace the window. Repair any damage resulting from removing and replacing window.
    b. Any damage to surrounding trim, plaster, or drywall during window demolition or installation shall be repaired to existing condition. The repaired areas shall be repainted to a clearly defined transition point as approved by the COR. It is the contractor's responsibility to document and notify the COR of any pre-existing damage prior to starting on a window.
    c. The windows shall be treated as if they contain lead-based paint. Some existing caulking around windows may contain asbestos. The contractor shall adhere to all applicable regulations when performing work. No occupant shall be exposed to hazardous materials.
    d. Verify rough opening measurements and verify each width and height dimension are appropriate for each new window installation. Determine jamb width needed for each new window. The provided window schedule, in the drawing set, is representational only and all dimensions and interior finish must be field verified.
    e. Upon removal of a window, preparation work and installation of new window should occur within the same day. If unforeseen circumstances prevent that, a temporary weather tight seal will be placed over the opening until the new window is installed within the following 24 hours. For openings that are easily accessible by a potential intruder (first floor, next to fire escape, etc..) during non-business hours will have both a weather tight seal and a solid and secure blocking (such as plywood) to prevent quick, easy access.
    f. Mechanical fixtures, including security screens, grilles, louvers, and other penetrations through boarded up openings can either be removed, cleaned, and repainted with powder coated paint to match exterior window color (Colonial Red) or new fixtures (color matched) are supplied and installed to replace. Plywood to be removed and window bucks/frame to be replaced.
    g. Pre walk-thru requirement to identify the number of furniture pieces that will need to be moved away from each window throughout the building. Sections throughout the phases will have to be scheduled with enough time to allow the area to be prepped prior to the work starting. Moving of furniture and plastic covering will be contractor responsibility. Occupants of each office will be required to unplug/relocate any IT equipment and personal items that would hinder clear access to the window(s).

3. Prepare opening to receive new replacement window.
    a. Sill must be flat, level and capable of supporting the weight of the unit. Opening must allow a maximum of ¼" shim space at sill, jambs and head. Make any necessary adjustments to ensure the opening is level, plumb and square.
    b. Rough opening should be 1/2" larger than overall frame width and height.
    c. Make sure opening is dry, clean, and free of dirt and debris.
    d. Confirm with the manufacturer of such building materials as sealants, flashings, foam and weather barriers that they are compatible with one another.
    e. The interior of the new window frame must match the existing window frame and trim color. Contractor to verify and submit paint and stain color samples before construction.
    f. Install new window bucks and other structural components in masonry openings to structurally support window. Replace the existing 1x window weight cavity material if found to be rotted and not structurally sound. Wood to be pressure treated and Kiln Dried After Treatment (Yellawood) for a moisture content of less than 19% upon installation.
    g. Seal gaps and cavities around the window frame with low expansive foam to prevent air infiltration.
    h. Contractor shall use structural rated screws to fasten the new window.

4. Install new window that is very similar to size, function, and character of the old window.
    a. Install the new windows in accordance with the manufacturer's installation instructions and specifications.

b. The replacement windows shall relatively match the appearance of the existing historic wood windows being removed. These include but are not limited to 2 over 2, 6 over 6, and 8 over 8 sash types.
c. New aluminum-clad wood, double hung, double pane windows with ¼" laminated glass on the interior side will be installed along with new exterior field applied aluminum flat casing and trim.
d. New window shall be set to the exterior edge of the existing window. Trim shall be installed between the window and existing interior trim to cover the gap. Interior trim shall be painted or stained (depending on location) to match the new window.
e. The National Park Service (NPS) and the Kansas State Historic Preservation Office (SHPO) have specifically approved for use as an Acceptable Manufacturer: Sierra Pacific Windows, Westchester Model, Phone: 785-331-7384; www.sierrapacficwindows.com.
f. Install MAPES panel, color matched, inserts on mechanical/boarded up window openings. Re-install 259r install mechanical fixtures.
g. Re-install window shade devices and interior window casing.
h. Clean windows according to Manufacturer's Instructions.
i. Contractor must function check all windows after installation.
j. Contractor shall fully complete window installations (including interior work) before moving to a new section of the building (Wagner, Sherman, Grant, Sheridan). This will allow DPW to approve the completed work of each section of the building and reduce back and forth on the punch list.

5. Window repairs: Cracked panes shall be replaced. Frame and muntin's shall be repaired with new wood, wood filler, or replaced. Exterior frame and muntin's must be sanded down and painted colonial red. Interior frame and muntin's must be sanded down and painted or stained to match existing. All windows being repaired shall have the old glazing compound scraped, area cleaned and reglazed with new compound. Refer to window schedule for specific windows needing repaired.

6. General
   a. Contractor must provide site restoration as deemed necessary by the COR. This includes filling in ruts, grading, seeding, and watering until the areas are fully covered with grass. Grass seed shall be a tall fescue blend with a minimum of 3 varieties (Basis of design - Overtime or Overtime Plus).

b. **Off road contractor staging/work site:** If the Government approved staging area, haul route or parking for the contractor is permitted to be on turf, the contractor will install fencing along the drip lines of all trees within this area. No parking, driving, storage of equipment or material will be permitted within the fenced area. If the scope of work includes work within the drip line, the contractor shall bore any required utilities below or through the root system, avoiding the largest roots near base of the tree, in lieu of trenching. If the grade is to be changed within the drip line per the SOW, tree wells or root boxes shall be constructed depending on whether the new grade is a fill or cut respectively. Upon completion of any required work within the drip line, the contractor shall loosen any compacted soil to a depth of 8 inches and restore any damaged turf in the area.

SW-3 **PROJECT INSTRUCTIONS**

a. **Coordination:**
   (1) Before starting any work, the contractor shall coordinate said work through the Contracting Officer/COR or their designated representative. Verbal notification shall be given to the Contracting Officer/COR or their designated representative prior to starting work. The Contractor shall take all reasonable measures necessary to minimize the disruption of the occupants during performance of contract work.
   (2) The building must remain operational and available for public access at all times.
   (3) The contractor's initial project schedule shall include specific window numbers and dates that correspond with the elevation views.
   (4) Contractor shall provide a 3-week lookahead schedule and gain government approval before starting any work in a new area of the building. The 3-week lookahead schedule shall be updated and received by the government prior to the weekly construction meetings.

b. **Normal Working Hours:** The Contractor shall work on days and hours stated except as approved, in writing, by the Contracting Officer/COR. The Contractor shall schedule their working hours to coincide with the working hours of the military installation, 7:00am to 4:30pm, Monday through Friday, except legal holidays which include the following –

LEGAL PUBLIC HOLIDAYS

New Year's Day 1st day of January
Martin Luther King Jr.'s Birthday 3rd Monday of January
Presidents' Day 3rd Monday of February
Memorial Day last Monday of May
Juneteenth 3rd Friday of June
Independence Day 4th day of July
Labor Day 1st Monday of September
Columbus Day 2nd Monday of October
Veterans Day 11th day of November
Thanksgiving Day 4th Thursday of November
Christmas Day 25th day of December

NOTE: Any of the above holidays falling on a Saturday will be observed on the preceding Friday. Holidays falling on a Sunday will be observed on the following Monday.

c. **Sustainable Management of Waste:** The contractor shall, at his/her own expense, ensure that 60% by weight of the demolition or deconstruction material or construction waste is diverted from landfill disposal. This may be accomplished through recycling, reuse of material (such as crushed concrete or asphalt), diversion (material which may be used on a future project) or waste minimization (accurate planning and ordering, proper material storage and handling, right-sizing). A consolidated report outlining the amounts of diverted and disposed waste resulting in the 60% diversion shall be provided to the Directorate of Public Works Environmental Division. The contractor shall use the DEBRIS RECOVERY STATEMENT – Post Demolition/ Construction Form located at the end of this Statement of Work. All waste reduction measures must be in full compliance of federal, state and local regulations and in full compliance with material specifications. All measures involving storage of material on the installation or future use of the material by the installation must be coordinated in advance with the Directorate of Public Works.

(1) **Debris and Rubbish:** The contractor shall dispose of all debris and rubbish in an off-post dump site at no additional cost to the Government per Sustainable Management of Waste defined above. The government landfill, dumpsters, or containers shall not be used for property disposal. All waste shall be disposed of in accordance with applicable Federal, State, and local laws. Wastewater from construction activities, such as onsite material processing, concrete curing, foundation and concrete clean-up, water used in concrete trucks, forms, etc. will not be allowed to enter water ways or to be discharged prior to being treated to remove pollutants. Dispose of the construction related wastewater off- Government property in accordance with all Federal, State, Regional and Local laws and regulations.

(2) **Scrap and Salvageable Materials:** The Contractor retains right and control of scrap and salvageable material generated from Government owned facilities unless otherwise defined by this contract. All Scrap and salvaged material retained by the contractor shall be removed from the Post daily at the Contractor's expense. Weights shall be recorded and submitted according to the Sustainable Management of Waste defined above.

d. **As-Built Drawings:** Contractor is responsible to keep accurate records of the installation of all new equipment and to provide one set of as-built drawings illustrating all of the work, with changes, performed on this contract. Changes to all plans will be annotated in red ink on a set of drawings, called "Redlines" and maintained during construction and available for inspection. Drawings are to be supplied to the Contracting Officer/COR in the form of paper, hard copy, and (1) digital PDF format copy. AutoCAD drawings are required as part of the As-Built requirement: see submittal requirements.

e. **Shop drawings:** Contractor, or any lower tier subcontractor pursuant to a construction contract, to submit to the Government, Shop Drawings consisting of detailed drawings, diagrams, layouts, schematics, descriptive literature, illustrations, schedules, performance and test data, and similar materials furnished by the contractor to explain in detail specific portions of the work required by the contract. The Government may duplicate, use, and disclose in any manner and for any purpose shop

drawings delivered under this contract.

f. **Operation and Maintenance Manuals:** Contractor is responsible to keep accurate records of the installation of all new equipment and to provide operation and maintenance (O&M) manuals for all equipment and materials installed on this contract. O&M manuals are to be supplied in binders to the Contracting Officer/COR in the form of (3) paper, hard copy and (3) digital copy in PDF format upon completion for each Master Division. For example, O&M manuals shall be provided in separate binders for different items i.e. domestic plumbing items shall be in separate binders from HVAC equipment; fire alarms should be separate from access control.

g. **National Park Service - The Secretary of the Interior's Standards:** This facility or construction site is a part of the National Landmark Historic District. All repairs will be made in accordance with the Secretary of Interior preservation standards and care should be taken to avoid damage to existing historical fabric. Historic features and fabric should be protected throughout the entire construction process. www.nps.gov/tps/standards.htm

h. **Warranty:** Provide a list of the material suppliers with names and phone numbers for all warranties to the Contracting Officer/COR or their designated representative.

i. All work will conform to standards as established by current publication of the Unified Facilities Criteria (UFC), International Building Code (IBC), National Fenestration Rating Council (NFRC), Fenestration and Glazing Alliance (FGIA), and American Architecture Manufacturers Association (AAMA). All materials, workmanship, methods, and equipment shall be to the complete satisfaction of the COR.

j. The Contractor is responsible for: dimensions to be confirmed and correlated at the jobsite; information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences and procedures of construction are in accordance with current codes; coordination of the work with that of all other trades and performing all work in a safe and satisfactory manner.

SW-4 **SAFETY REQUIREMENTS**

a. The Contractor shall comply with all safety measures outlined in the Occupational Safety and Health Administration (OSHA) safety standards 29 CFR 1910 and 29 CFR 1926 and the Army Corp of Engineers EM385-1-1 used for all construction on Army Installations. The Contractor will also comply with AR 385-10 and DA PAM 385-10 Chapter 4-4 a. thru g.

b. The contractor shall provide as their first submittal #01 a Site-Specific Safety Plan for each subsequent awarded Task Order (reference below SW-5)

SW-5 **SUBMITTALS**

a. In accordance with UFGS-01 33 00 (August 2018) Change 4 - 02/21, Submittals include all preconstruction documentation, shop drawings, product data, samples, letters of certification, tests, plans, design data calculations, test reports, manufacturer's instructions and other engineering information that may be required for quality control and quality assurance. Submittals will be reviewed only for general conformance with the design concept and the information given in the Construction Documents. Approval, acceptance, or corrections and comments made by the Government for a submittal does not relieve the Contractor of the responsibility for meeting the contract requirements or for any error that may exist, because under the Quality Control (QC) requirements of this contract, the Contractor is responsible for ensuring information contained within each submittal accurately conforms with the requirements of the contract documents, except with respect to variations described and approved. The Government estimates up to 10 working days to review Shop Drawings and provide approval, denial or other feedback.

b. Each submittal is to be complete and with sufficient detail to allow ready determination of compliance with contract requirements.

c. For variations, proposed by the contractor, that include design changes or some material or product substitutions, the Government may require an evaluation and analysis by a licensed professional engineer hired by the contractor. When proposing a variation, deliver a submittal, which is clearly marked as a "VARIATION" to the Contracting Officer/COR, with documentation illustrating the nature and features of the variation including any necessary technical submittals and why the variation is desirable and beneficial to Government. If lower cost is a benefit, also include an estimate of the cost savings. In addition to documentation required for variation, include the submittals required for the item.

d. Within 15 calendar days of contract award and before installation, the Contractor shall submit for approval for all Pre- Construction Submittals (SD-01) items listed. The government has 10 working days to review and return submittals once they are received. If the contractor submits an item for re-approval, the Government has 5 days to review and return once it is received. All submittals shall be approved before work requiring the materials can be used on the project. The Contracting Officer/COR may request submittals in addition to those listed below when deemed necessary to adequately describe the work covered in this contract.

e. Submittals shall be e-mailed to the Contracting Officer/COR at:

usarmy.leavenworth.acc-cc.mbx.construction@army.mil

f. Submittals shall be labeled utilizing the keyword "submittal" with the contract number, task order, building number, and submittal short description or number. Each task order will list its required submittals in the SOW or the applicable named construction specifications. Form Attached Below

(e.g. Submittal_(Contract/Task order #)_Bldg_#56_tiles)

- ☐ 1 - Site Specific Safety Plan (SW-4b)
- ☐ 2 - Construction Schedule – Schedule shall be viewable in PDF (updated weekly or as changes happen)
- ☐ 3 - Key Personnel Staffing Plan (SW-1e)
- ☐ 4 - Quality Control Plan (SW-6)
- ☐ 5 - Submittal Registry / LOG for all submittals intended for project
- ☐ 6 - Project Signage (SW-7)
- ☐ 7 - Pre-Construction site photos (interior and exterior labeled by window)
- ☐ 8 - Window Product Information
- ☐ 9 - Window Shop Drawings
- ☐ 10 - Window Hardware
- ☐ 11 - Caulking/Sealant
- ☐ 12 - Insulated Panel (Mapes)
- ☐ 13 - Interior Trim (wood and paint/stain)
- ☐ 14 - Color Samples
- ☐ 15 - Fasteners
- ☐ 16 - Tape
- ☐ 17 - Wood
- ☐ 18 - Insulation
- ☐ 19 - Grass Seed
- ☐ 20 - O&M/Warranty
    - Operation and Maintenance Manuals (SW-3g)
    - Warranty Information (SW-3j)
    - Debris Recovery Statement Form (attached) (SW-3c)
    - As-Built Drawings (SW-3d)
    - Draft DD 1354 Form & Final DD 1354 Form (SW-3i) (as necessary)
- ☐ All other products, materials and equipment used in the project
- ☐ All serial #s, Model Number, Manufacturer information of items removed and installed. (Form provided)

SW-6 **QUALITY CONTROL**

This contract has a requirement for quality control. The Contractor must maintain adequate continuous quality control over each phase of his/her operation. When the Contractor signs the contract, he/she assumes the responsibility for producing the required end product within the time stated. The contractor must establish and implement a system for controlling his/her daily operations to comply with this commitment. The Quality Control Plan shall be brought to the pre-construction conference. Contractor quality control shall include the

following items:

a. The Contractor shall provide and maintain an effective Quality Control Program (QC). Review of submittals for conformance to design concept and construction documents. Sufficient inspections to ensure conformance to the Statement of Work shall be performed on a continuing basis. After the contract is awarded, and prior to starting on-site construction, the Contractor shall meet with the Contracting Officer/COR at a pre-construction conference and discuss the quality control requirements.

b. The Contractor's quality control program shall include three phases of inspection and tests as follows:

    1. Preparatory Inspection prior to beginning work on-site shall include but is not limited to performing a physical examination of materials existing conditions of surroundings and equipment to assure that they conform to approved shop drawings or submittal data and that all materials and/or equipment are on hand.

    2. Initial Inspection shall be performed as soon as work begins on a representative portion of the particular feature of work and shall include examination of the quality of workmanship as well as a review of control testing for compliance with contract requirements.

    3. Continuing Inspection shall be performed as any particular feature of work Progresses, including control testing, until completion of that feature of the work.

c. A daily inspection report shall be submitted the first workday following the date covered by the report. The report shall be deemed late at the end of the following workday. The Contractor shall stop work, pending satisfactory correction of any deficiency noted by the quality control staff or by the Contracting Officer/COR. Contractor shall not proceed upon any feature of work containing uncorrected work. Upon any contract discrepancy found by the Contracting Officer/COR or their designated representative. Notations on quality control reports will not be acceptable as a substitution for other written reports by the Contractor if required under Contract Clauses. No payment estimate will be processed under this contract until the entire Quality Control Plan has been approved and until overdue daily QC reports are properly executed and furnished.

SW-7 **PROJECT SIGNAGE**

a. Contractor shall provide all necessary signage to notify installation personnel of construction. If during construction signage is damaged due to weather, it will be the contractor's responsibility to replace.

b. Signage shall be 2' x 3'. Signage size may change depending on project and proposed location. Size changes must be requested through the Contracting Officer/COR.

c. Signage shall be installed at a minimum 1 week prior to start of construction. If signage is to be placed in the ground, plan ahead for utility locates through Kansas One-Call. If possible, install signage on existing structures.

d. Exact verbiage for the signage shall be approved by the Contracting Officer/COR prior to installation. All text shall be black and at an appropriate size in proportion to the individual signs. The following are items required as a minimum to be included on the signage:

    1. Basic title
    2. Purpose of project
    3. General time frame of project, i.e., Spring 2017
    4. Use phrases such as: Pardon our dust, thanks for your patience or watch for construction equipment when appropriate to the project.

e. If relevant to the project, a picture shall be used to convey the project to the public. DPW can assist with providing an appropriate image for the signage.

SW-8 **UTILITY SERVICES & LOCATES**

All interruptions to electrical, water or other utilities must be coordinated with the Contracting Officer/COR. The Contractor shall notify the Contracting Office seven (7) days prior to the disruption of utility services. Unanticipated interruptions of utilities will be reported to the Contracting Officer/COR immediately.

a. The Contractor is responsible for checking with and locating all the utilities in the field before construction for the Fort Leavenworth owned utilities excluding fiber/telephone and communications. The Contractor will be provided utility drawings, as required, to aid in locating storm sewer and natural gas. Water lines and Sanitary Sewer lines are owned by American Water. Electric power distribution lines are owned by Free State Co. The utilities that are of nonconductive construction such as plastic, or Transit and have no tracer wire or other means of applying a signal are to be located from the utility maps. The utilities that are located from maps that appear to be in the vicinity of the excavation are to be hand dug for location purposes.

b. The Contractor shall contact Kansas One-Call for utility Locates for Southern Star Central Gas Pipeline, Sprint, AT&T, Time Warner Cable, American Water, and Free State.

c. Free State and American Water will be involved in all projects that are affecting exterior water, sewer, and electric. They will be allowed to inspect all work pertaining to these utilities as they are to be notified by the contractor when as work proceeds on these projects.

d. The Fort Leavenworth telephone and communication lines are responsibility of the Network Enterprise Center (NEC) and will be located by Fort Leavenworth personnel. The Contractor shall visit the sites and mark his proposed route or limits to his excavation on a map and take this marked up map to Directorate of Public Works (DPW) Help Desk before any excavation. NEC will mark lines in the field within 10 working days, after which the Contractor shall proceed with actual excavation. If the Contractor damages any lines during excavation the Contractor shall contact DPW Inspector immediately.

e. The Fort Leavenworth Natural Gas lines are the responsibility of the Directorate of Public Works (DPW) and will be located by DPW personnel. The Contractor shall visit the sites and mark his proposed route or limits to his excavation on a map and take this marked up map to Directorate of Public Works (DPW) Help Desk before any excavation. DPW will mark lines in the field within 10 working days, after which the Contractor shall proceed with actual excavation. If the Contractor damages any marked lines during excavation, the Contractor shall contact DPW Help Desk immediately.

f. After all utility locations or existence of any utility for the site are completed, the contractor shall pick up their copy of the dig permit at the DPW Help Desk (Bldg. 304, OMD Office). The contractor will provide a copy of the summary and dig permit to the Construction Representative for his review prior to the start of any excavation as a daily report.

g. After DPW marks the Fort Leavenworth's owned utilities, the Contractor is responsible for maintaining the marks.

-- End of Statement of Work --

DEBRIS RECOVERY STATEMENT – Post Demolition/Construction

Project Address: _____
Contractor:_____
Date:_____
Contact:_____
Phone:_____
Email:_____
Project: _____

Identify which materials were reused, recycled or disposed by completing the table below. You must recycle **at least 60%** of all waste generated. Check the designated box and provide the name of each facility or service provider and weight of materials. If the materials were reused on site, describe the reuse application under the facilities/service provider column. Salvaged materials from deconstruction should be designated as reuse.

Attach copies of receipts, gate tags, or other verifying documentation.

Material	Reuse	Recycle	Dispose	Facility Service Provider	Weight (tons)
Asphalt					
Brick					
Cardboard					
Carpet					
Concrete					
Dirt/Clean Fill					
Dry Wall					
Metal					
Pallets					
Plastics					
Plant Debris					
Roofing - asphalt composition shingle, tile, wood shake, tar or gravel					
Wood - clean					
Wood - treated					
Other					
Other					

MATERIAL GENERATION SYNOPSIS

A. Total tons of materials generated for the project: _____
B. Total tons of materials disposed (not recycled): _____
C. Total tons of materials salvaged, reused, or recycled: _____
D. Percentage of materials recycled/reused (divide C by A):_____%

For assistance in recovering materials at the jobsite, visit the following websites for a Builders Guide to Reuse and Recycling.
http://www.cdrecycling.org/find.html

UTILITY LOCATE REQUEST FORM

DPW FORT LEAVENWORTH
440 MCPHERSON AVE, LOWER LEVEL, DOOR #3
FORT LEAVENWORTH, KS 66027
(p) 913-684-5555 (f) 913-684-2033

usarmy.leavenworth.imcom-central.mbx.dpw-utilities@army.mil

CUSTOMER IS RESPONSIBLE FOR CALLING KANSAS ONE FOR PRIMARY UTILITY CHECKS

1-800-344-7233 http://www.kansasonecall.com/ KANSAS ONE TICKET #:_____

****MUST BE SUBMITTED SEVEN BUSINESS DAYS IN ADVANCE**

****A REMARK REQUIRES SEVEN BUSINESS DAYS ADVANCE NOTICE**

*DATE: _____

*POC NAME:_____ *PHONE: _____

*COMPANY NAME: _____

*OFFICE EMAIL ADDRESS:_____ OFFICE FAX:_____

*EXPLOSIVES? YES_____ NO_____

*TRENCHLESS EXCAVATION? YES_____ NO_____

*DURATION? _____

*TYPE OF WORK: _____

*WORK BEING DONE FOR: _____

CITY/STATE: FORT LEAVENWORTH, KANSAS

COUNTY: LEAVENWORTH

*ADDRESS: _____

*NEAREST INTERSECTING STREET: _____

*DRIVING DIRECTIONS/LOCATION OF WORK/MARKING INSTRUCTIONS: _____

_____

_____

_____

_____

_____

*REMARK (repeat of markings done in the last 15 days): YES ____ NO ____

* SPECIFIC DATE NEEDED: _____

(CANNOT BE EARLIER THAN 7 BUSINESS DAYS FROM THE DATE REQUESTED.)

*****ONCE PROJECT IS COMPLETE, PLEASE REMOVE ALL UTILITY FLAGS FROM AREA**

****

FOR DPW USE ONLY DATE RECEIVED:_____

Fax:_____Email:_____

GAS:_____ PHONE/COAX/FIBER:_____

ELECTRIC:_____ ENVIRONMENTAL:_____

NEC TICKET #:_____ GEOTHERMAL:_____

AM WATER:_____ LJEC:_____

NOTIFIED POC OF COMPLETION ON_____

Spoke with:_____

Left message:_____

MATERIAL APPROVAL SUBMITTAL

(See Instructions on Reverse)

Form Approved
OMB No 9000-0062
Expires May 31, 2005

Public reporting burden for this collection of information is estimated to average 20 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to the Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project OMB No 9000-0062, Washington DC 20503. Please DO NOT RETURN your form to either of these addresses. Send your completed form to: SAF/AQCP, 1060 Air Force Pentagon, Washington DC 20330-1060.

TO: *(Contracting Officer)*	**FROM:** *(Contractor)*	DATE *(YYYYMMDD)*
CONTRACT NUMBER	SUBMISSION NUMBER	SUBMITTAL ☐ NEW ☐ RESUBMITTAL
PREVIOUS SUBMISSION NUMBER	PROJECT NUMBER	

TO BE COMPLETED BY CONTRACTOR			**FOR GOVERNMENT USE ONLY**			
ITEM NO.	SPECIFICATION SECTION/ PARA NO./DRAWING NO.	DESCRIPTION OF MATERIAL *(Include Type, Model Number, Catalog Number, Mfg., etc.)*	AP-PROVED	DISAP-PROVED	SEE REVERSE	INITIAL

BY COMPLETING THIS FORM, THE UNDERSIGNED CONTRACTOR CERTIFIES THAT THE MATERIAL COMPLIES WITH ALL SPECIFICATIONS OF SUBJECT CONTRACT.

DATE *(YYYYMMDD)*	TYPE OR PRINT NAME AND TITLE	SIGNATURE

FOR GOVERNMENT USE ONLY

TO: *(Base Civil Engineering Officer)*

For Evaluation and Action

DATE *(YYYYMMDD)*	TYPE OR PRINT NAME AND GRADE	SIGNATURE

TO: *(AF Contracting Office)*

RECOMMEND ☐ APPROVAL ☐ DISAPPROVAL AS INDICATED ABOVE AND SUBJECT TO ANY APPLICABLE COMMENTS ON THE REVERSE

DATE *(YYYYMMDD)*	TYPE OR PRINT NAME AND GRADE	SIGNATURE

TO: *(Contractor)*

☐ APPROVED ☐ DISAPROVED AS INDICATED ABOVE AND SUBJECT TO ANY APPLICABLE COMMENTS ON THE REVERSE SIDE. REQUEST RESUBMITTAL ON DISAPPROVED ITEMS WITHIN _____ DAYS OF DATE SHOWN BELOW.

DATE *(YYYYMMDD)*	TYPE OR PRINT NAME AND GRADE	SIGNATURE

COMMENTS

(Number to correspond with applicable Item Number on reverse)

INSTRUCTIONS TO CONTRACTORS

1. The term "material" is defined as articles, supplies, raw materials, equipment, parts, components, and end items that are to be incorporated into the work required by the contract.

2. This form is to be used by contractors for submitting Shop Drawings, Equipment Data, Manufacturer's Literature and Certificates and samples of Materials to the Government for approval in accordance with the provisions of this contract. Unless otherwise specified, it is to be prepared in 4 copies, signed, and provided to the contracting officer with appropriate attachments.

3. Item(s) to be approved will be clearly tabbed or identified. Data pertaining to item(s) to be approved will be clearly identified or tabbed, particularly where documents are voluminous, in order to properly evaluate the materials or articles to be incorporated in the work. Each attachment will be numbered to correspond with the item number shown on the face of this form.

4. Requests submitted shall be numbered consecutively, by contract, in the space entitled "Submission No.". This number, in addition to the Contract No., will be used to identify each Material Approval Submittal. Resubmissions will be indicated in the appropriate block and the insertion of previous submission number and data in addition to a new submission number. A single submission should be used for all work of a section of the specifications, but in NO instance should the submission include work for more than one (1) contract. Submittals requiring priority handling will be submitted by separate submittal using the form and so marked across the face of the form.

5. This Material Approval Submittal is not valid unless it is signed by the contracting officer. This approval is required as called for by the contracting officer under the terms of this contract.

Contractors shall provide the following information listed below as it pertains to the project. This form is a contract document and shall be part of your close out binder, as a required document it must be completed before the final invoice can be approved.(Form shall be typed not hand written)

HVAC: Manufacturer, Warranty, Model and Serial #, Attach Photo of Data Plate.

PLUMBING: Manufacturer, Warranty, Model and Serial #, Attach Photo Of Data Plate.

FINISHES: Manufacturer, Warranty, Color Name and # or Formula if Custom Color (paint)

Carpet ☐ LVT ☐ VCT ☐ Wood ☐ Other ☐

ELECTRICAL: Manufacturer, Warranty Model and Serial #, Attach Photo Of Data Plate.

ROOFING: Manufacturer, Warranty, Gutter Downspouts, Roof Openings.

MOD Bit ☐ Asphalt ☐ Metal ☐ Slate ☐ BUR ☐

Slope / Pitch Sq. Ft.

FIRE PROTECTION: Manufacturer, Warranty, Model and Serial #, photo of all Data plates.

Compressor ☐ Fire Alarm Control Pan ☐

Mass Notification ☐ Smoke Detector ☐

Heat Detector ☐ Duct Detector ☐

ADD PHOTOS ON THIS PAGE ADD ADDITIONAL PAGES IF NEEDED

2020
ASBESTOS ABATEMENT SPECIFICATIONS

PART 1 GENERAL

1.1 REFERENCES

1.1.1 The publications listed below form a part of this specification to the extent referenced. The publications are referred to within the text by the basic designation only.

AMERICAN INDUSTRIAL HYGIENE ASSOCIATION (AIHA)

AIHA Z88.6 (2006) Respiratory Protection - Respirator Use-Physical Qualifications for Personnel

AIHA Z9.2 (2006) Fundamentals Governing the Design and Operation of Local Exhaust Ventilation Systems

AMERICAN SOCIETY OF SAFETY ENGINEERS (ASSE/SAFE)

ASSE/SAFE Z87.1 (2003) Standard for Occupational and Educational Eye and Face Protection

ASTM INTERNATIONAL (ASTM)

ASTM E1368 (2011) Visual Inspection of Asbestos Abatement Projects

EM 385-1-1(2003) Safety -- Safety and Health Requirements

NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH (NIOSH)

NIOSH 94-113(1994; 4th Ed) NIOSH Manual of Analytical Methods

U.S. NATIONAL ARCHIVES AND RECORDS ADMINISTRATION (NARA)

29 CFR 1910.134 Respiratory Protection

29 CFR 1910.141 Sanitation

29 CFR 1910.147 Control of Hazardous Energy (Lock Out/Tag Out)

29 CFR 1926.1101 Asbestos

29 CFR 1926.32 Safety and Health Regulations for Construction - Definition

40 CFR 61 National Emission Standards for Hazardous Air Pollutants

40 CFR 763 Asbestos

42 CFR 84 Approval of Respiratory Protective Devices

49 CFR 107 Hazardous Materials Program Procedures

49 CFR 171 General Information, Regulations, and Definitions

49 CFR 172 Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, and Training Requirements

49 CFR 173 Shippers - General Requirements for Shipments and Packagings

UNDERWRITERS LABORATORIES (UL)

UL 586 (2009) Standard for High-Efficiency Particulate, Air Filter Units

1.2 DEFINITIONS

1.2.1 Adequately wet

Sufficiently mix or penetrate with liquid to prevent the release of particulates. If visible emissions are observed coming from asbestos-containing material, then that material has not been adequately wetted. However, the absence of visible emissions is not sufficient evidence of being adequately wet.

1.2.2 Amended Water

Water containing a wetting agent or surfactant with a maximum surface tension of 0.00042 psi.

1.2.3 Asbestos Containing Material (ACM)

Any materials containing more than one percent asbestos.

1.2.4 Area Sampling

Sampling of asbestos fiber concentrations which approximates the concentrations of asbestos in the theoretical breathing zone but is not actually collected in the breathing zone of an employee.

1.2.5 Asbestos

The term asbestos includes chrysotile, amosite, crocidolite, tremolite asbestos, anthophyllite asbestos, and actinolite asbestos and any of these minerals that has been chemically treated or altered. Materials are considered to contain asbestos if the asbestos content of the material is determined to be at least one percent.

1.2.6 Asbestos Control Area

That area where asbestos removal operations are performed which is isolated by physical boundaries which assist in the prevention of the uncontrolled release of asbestos dust, fibers, or debris.

1.2.7 Asbestos Fibers

Those fibers having an aspect ratio of at least 3:1 and longer than 5 micrometers as determined by National Institute for Occupational Safety and Health (NIOSH) Method 7400.

1.2.8 Asbestos Permissible Exposure Limit

0.1 fibers per cubic centimeter of air as an 8-hour time weighted average measured in the breathing zone as defined by 29 CFR 1926.1101 or other Federal legislation having legal jurisdiction for the protection of workers health.

1.2.9 Authorized Person

Any person authorized by the Contractor and required by work duties to be present in the regulated areas.

1.2.10 Background

The ambient airborne asbestos concentration in an uncontaminated area as measured prior to any asbestos hazard abatement efforts. Background concentrations for other (contaminated) areas are measured in similar but asbestos free locations.

1.2.11 Class II Asbestos Work

Activities defined by OSHA involving the removal of ACM which is not thermal system insulation or surfacing material. This includes, but is not limited to, the removal of asbestos - containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastic. Certain "incidental" roofing materials such as mastic, flashing and cements when they are still intact are excluded from Class II asbestos work. Removal of small amounts of these materials which would fit into a glove-bag may be classified as a Class III job.

1.2.12 Clean Room

An uncontaminated room having facilities for the storage of employees' street clothing and uncontaminated materials and equipment.

1.2.13 Competent Person

A person meeting the requirements for competent person as specified in 29 CFR 1926.1101 including a person capable of identifying existing asbestos hazards in the workplace and selecting the appropriate control strategy for asbestos exposure, who has the authority to take prompt corrective measures to eliminate them, and is specifically trained in a training course which meet the criteria of Environmental Protection Agency (EPA)'s Model Accreditation Plan (40 CFR 763) for project designer or supervisor, or its equivalent. The competent person shall have a current asbestos contractors or supervisors license.

1.2.14 Contractor/Supervisor

Individual who supervises asbestos abatement work and has EPA Model Accreditation Plan "Contractor/Supervisor" training; has EPA/State certification as a "Contractor/Supervisor".

1.2.15 Critical Barrier

One or more layers of plastic sealed over all openings into a regulated area or any other similarly placed physical barrier sufficient to prevent airborne asbestos in a regulated area from migrating to an adjacent area.

1.2.16 Decontamination Area

An enclosed area adjacent and connected to the regulated area and consisting of an equipment room, shower area, and clean

room, which is used for the decontamination of workers, materials, and equipment that are contaminated with asbestos.

1.2.17 Demolition

The wrecking or taking out of any load-supporting structural member and any related razing, removing, or stripping of asbestos products.

1.2.18 Disposal Bag

A doubled bagged consisting of 6 mil thick, leak-tight plastic bag, pre-labeled in accordance with 29 CFR 1926.1101, used for transporting asbestos waste from containment to disposal site.

1.2.19 Disturbance

Activities that disrupt the matrix of ACM, crumble or pulverize ACM, or generate visible debris from ACM. Disturbance includes cutting away small amounts of ACM, no greater than the amount which can be contained in 1 standard sized glove-bag or waste bag, not larger than 60 inches in length and width in order to access a building component.

1.2.20 Equipment Room or Area

An area adjacent to the regulated area used for the decontamination of employees and their equipment.

1.2.21 Friable Asbestos Containing Material

A term defined in 40 CFR 61, Subpart M and EPA 340/1-90/018 meaning any material which contains more than 1 percent asbestos, as determined using the method specified in 40 CFR 763, Polarized Light Microscopy (PLM), that when dry, can be crumbled, pulverized, or reduced to powder by hand pressure.

1.2.22 High-Efficiency Particulate Air (HEPA) Filter Equipment

High efficiency particulate air (HEPA) filtered vacuum and/or exhaust ventilation equipment with a filter system capable of collecting and retaining asbestos fibers. Filters shall retain 99.97 percent of particles 0.3 microns or larger as indicated in UL 586.

1.2.23 Intact

ACM which has not crumbled, been pulverized, or otherwise deteriorated so that the asbestos is no longer likely to be bound with its matrix. Removal of "intact" asphaltic, resinous, cementitious products does not render the ACM non-intact simply by being separated into smaller pieces.

1.2.24 NESHAP

National Emission Standards for Hazardous Air Pollutants. The USEPA NESHAP regulation for asbestos is at 40 CFR 61, Subpart M.

1.2.25 Negative Pressure Enclosure (NPE)

That engineering control technique described as a negative pressure enclosure in 29 CFR 1926.1101. May be of any configuration. At least 4 air changes per hour shall be maintained in the NPE.

1.2.26 Negative Initial Exposure Assessment

A demonstration by the Contractor to show that employee exposure during an operation is expected to be consistently below the OSHA Permissible Exposure Limits (PELs).

1.2.27 Non-friable ACM (Category II)

A NESHAP term defined in 40 CFR 61, Subpart M and EPA 340/1-90/018 meaning any material containing more than 1 percent asbestos that, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure.

Material that contains asbestos in which the fibers have been immobilized by a bonding agent, coating, binder, or other material so that the asbestos is well bound and will not normally release asbestos fibers during any appropriate use, handling, storage or transportation. It is understood that asbestos fibers may be released under other conditions such as demolition, removal, or mishap.

1.2.28 Permissible Exposure Limits (PELs)

Shall not exceed 0.1 fiber per cubic centimeter of air during an 8 hour Time-Weighted Average.

1.2.29 PEL-Time Weighted Average (TWA)

Concentration of asbestos not in excess of 0.1 fibers per cubic centimeter of air (f/cc) as an 8 hour time weighted average (TWA).

1.2.29.2 PEL-Excursion Limit

An airborne concentration of asbestos not in excess of 1.0 f/cc of air as averaged over a sampling period of 30 minutes.

1.2.30 Personal Sampling

Air sampling which is performed to determine asbestos fiber concentrations within the breathing zone of a specific employee, as performed in accordance with 29 CFR 1926.1101.

1.2.31 Phase Contrast Microscopy (PCM)

Phase Contrast Microscopy (PCM) is a technique using a light microscope equipped to provide enhanced contrast between the fibers collected and the background filter material.

1.2.32 Private Qualified Person (PQP)

The qualified person hired by the Contractor to perform the herein listed tasks.

1.2.33 Qualified Person (QP)

A Registered Architect, Professional Engineer, Certified Industrial Hygienist, consultant or other qualified person who has successfully completed training and is therefore accredited under a legitimate State Model Accreditation Plan as described in 40 CFR 763 as a Building Inspector, Contractor/Supervisor Abatement Worker, and Asbestos Project Designer; and has successfully completed the National Institute of Occupational Safety and Health (NIOSH) 582 course "Sampling and Evaluating Airborne Asbestos Dust" or is an accredited asbestos Air Monitoring Professional. The QP must be qualified to perform visual inspections as indicated in ASTM E1368.

1.2.34 Regulated Area

An OSHA term defined in 29 CFR 1926.1101 meaning an area established by the Contractor to demarcate areas where Class I, II, and III asbestos work is conducted; also any adjoining area where debris and waste from such asbestos work accumulate; and an area within which airborne concentrations of asbestos exceed,

or there is a reasonable possibility they may exceed, the permissible exposure limit.

1.2.35 Removal

All operations where ACM is taken out or stripped from structures or substrates, and includes demolition operations.

1.2.36 Time Weighted Average (TWA)

The TWA is an 8-hour time weighted average airborne concentration of asbestos fibers.

1.2.37 Wetting Agent

A chemical added to water to reduce the water's surface tension thereby increasing the water's ability to soak into the material to which it is applied. An equivalent wetting agent must have a surface tension of at most 0.00042 psi.

1.2.38 Worker

Individual (not designated as the Competent Person or a supervisor) who performs asbestos work and has completed asbestos worker training required by 29 CFR 1926.1101, to include EPA Model Accreditation Plan (MAP) "Worker" training; accreditation if required by the OSHA Class of work to be performed or by the state where the work is to be performed.

1.3 MEDICAL REQUIREMENTS

Provide medical requirements including but not limited to medical surveillance and medical record keeping as listed in 29 CFR 1926.1101.

1.3.1 Medical Examinations

Before exposure to airborne asbestos fibers, the Contractor shall provide workers with a comprehensive medical examination as required by 29 CFR 1926.1101 or other pertinent State or local directives. This requirement must have been satisfied within the 12 months prior to the start of work on this contract. The same medical examination shall be given on an annual basis to employees engaged in an occupation involving asbestos and within 30 calendar days before or after the termination of employment in such occupation. Specifically identify x-ray films of asbestos workers to the consulting

radiologist and mark medical record jackets with the word "ASBESTOS."

1.3.2 Medical Records

The Contractor shall maintain complete and accurate records of employees' medical examinations, medical records, and exposure data for a period of 50 years after termination of employment and make records of the required medical examinations and exposure data available for inspection and copying to: The Assistant Secretary of Labor for Occupational Safety and Health (OSHA), or authorized representatives of them, and an employee's physician upon the request of the employee or former employee.

1.3.3 Medical Certification

The Contractor shall provide a written certification for each worker and supervisor, signed by a licensed physician indicating that the worker and supervisor has met or exceeded all of the medical prerequisites listed herein and in 29 CFR 1926.1101 and 29 CFR 1926.103 as prescribed by law. The Contractor shall submit certificates prior to the start of work but after the main abatement submittal.

1.4 EMPLOYEE TRAINING

The Contractor shall submit certificates, prior to the start of work but after the main abatement submittal, signed by each employee indicating that the employee has received training in the proper handling of materials and wastes that contain asbestos in accordance with 40 CFR 763; understands the health implications and risks involved, including the illnesses possible from exposure to airborne asbestos fibers; understands the use and limits of the respiratory equipment to be used; and understands the results of monitoring of airborne quantities of asbestos as related to health and respiratory equipment as indicated in 29 CFR 1926.1101 on an initial and annual basis.

The Contractor shall insure his/her employees, who shall be removing the Non-Friable ACM floor tile, shall receive at a minimum, eight hours of Class II ACM floor tile training from a state certified Asbestos trainer BEFORE properly removing any Non-Friable ACM floor tile. All Class II ACM floor tile work shall be supervised by a competent person as defined in paragraph (b) of 29 Code of Federal Regulation (CFR) 1926.1101.

The Contractor shall train all personnel involved in the asbestos control work in accordance with EPA Asbestos Hazard Emergency Response Act (AHERA) training criteria or State training criteria whichever is more stringent. The Contractor shall document the training by providing: dates of training, training entity, course outline, names of instructors, and qualifications of instructors upon request by the Contracting Officer.

The Contractor shall furnish each employee with respirator training and fit testing as required by 29 CFR 1926.1101. Fully cover engineering and other hazard control techniques and procedures. All asbestos workers shall have a current State of Kansas asbestos worker's license.

1.4.1 Permits, Licenses, and Notifications

The Contractor shall obtain necessary permits and licenses in conjunction with asbestos removal, hauling, and disposition, and furnish notification of such actions required by Federal, State, regional, and local authorities prior to the start of work.

The Contractor shall notify the Kansas Department of Health and Environment (KDHE) Asbestos branch, using KDHE Form ET-ASB8, to be completed and returned to KDHE not less than 10 working days before the project is intended to start, if asbestos may become friable during removal, or as required by KDHE, and the Contracting Officer in accordance with 40 CFR 61-SUBPART M.

The Contractor shall notify the Contracting Officer and other appropriate Government agencies in writing 20 working days prior to the start of asbestos work as indicated in applicable laws, ordinances, criteria, rules, and regulations. Submit copies of all Notifications to the Contracting Officer.

1.5 ENVIRONMENT, SAFETY AND HEALTH COMPLIANCE

In addition to detailed requirements of this specification, the Contractor shall comply with those applicable laws, ordinances, criteria, rules, and regulations of Federal, State, regional, and local authorities regarding handling, storing, transporting, and disposing of asbestos waste materials.

The Contractor shall comply with the applicable requirements of the current issue of 29 CFR 1926.1101, 40 CFR 61-SUBPART A, 40 CFR 61-SUBPART M.

The Contractor shall submit matters of interpretation of standards to the appropriate administrative agency for resolution before starting the work. Where the requirements of this specification, applicable laws, rules, criteria, ordinances, regulations, and referenced documents vary, the most stringent requirement as defined by the Government shall apply.

The following laws, ordinances, criteria, rules and regulations regarding removal, handling, storing, transporting and disposing of asbestos materials apply:

a. 29 CFR 1926.1101

b. 40 CFR 61-SUBPART M

c. 40 CFR 763 (As applicable to non-school).

1.6 AIR SAMPLING RESULTS

The Contractor’s representative shall complete fiber counting and provide results to the PQP for review within 16 hours of the "time off" of the sample pump. Notify the Contracting Officer immediately of any airborne levels of asbestos fibers in excess of the acceptable limits.

The Contractor shall submit sampling results to the Contracting Officer and the affected Contractor employees, where required by law within 3 working days, signed by the testing laboratory employee performing air sampling, the employee that analyzed the sample, and the PQP.

The Contractor’s representative shall notify the Contractor and the Contracting Officer immediately of any variance in the pressure differential which could cause adjacent unsealed areas to have asbestos fiber concentrations in excess of 0.01 fibers per cubic centimeter or background whichever is higher. In no circumstance shall levels exceed 0.1 fibers per cubic centimeter.

1.7 ASBESTOS WARNING SIGNS AND LABELS

The Contractor shall provide warning signs printed in English at all approaches to asbestos control areas. Locate signs at such a distance that personnel may read the sign and take the necessary protective steps required before entering the area.

The Contractor shall provide labels and affix to all asbestos materials, scrap, waste, debris, and other products contaminated with asbestos.

1.7.1 Warning Sign

The Contractor shall provide vertical format conforming to 29 CFR 1926.200, and 29 CFR 1926.1101 minimum 20 by 14 inches displaying the following legend in the lower panel:

LEGEND	NOTATION
Danger	One inch Sans Serif Gothic or Block
Asbestos	One inch Sans Serif Gothic or Block
Cancer and Lung Disease Hazard	1/4 inch Sans Serif Gothic or Block
Authorized Personnel Only	1/4 inch Sans Serif Gothic or Block
Respirators and Protective Clothing are required in this area	1/4 inch Sans Serif Gothic or Block

Spacing between lines shall be at least equal to the height of the upper of any two lines.

1.7.2 Warning Labels

The Contractor shall provide labels conforming to 29 CFR 1926.1101 of sufficient size to be clearly legible, displaying the following legend:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD
BREATHING ASBESTOS DUST MAY CAUSE SERIOUS BODILY HARM

1.8 TOOLS

Vacuums shall be leak proof to the filter and equipped with HEPA filters. Filters on vacuums shall conform to AIHA Z9.2 and UL

586. Do not use power tools to remove asbestos containing materials unless the tool is equipped with effective, integral HEPA filtered exhaust ventilation systems. **The use of floor tile removal/chipping machines use are prohibited.** Remove all residual asbestos from reusable tools prior to storage or reuse.

1.8.1 Rental Equipment

If rental equipment is to be used, furnish written notification to the rental agency concerning the intended use of the equipment and the possibility of asbestos contamination of the equipment.

1.9 ASBESTOS WORK PROCEDURE

The Contractor shall perform asbestos related work in accordance with 29 CFR 1926.1101, 40 CFR 61-SUBPART M, and as specified herein.

The Contractor shall use wet removal procedures with critical barriers, in addition to, wet methods. Use negative pressure enclosure if the asbestos cannot be maintained as non-friable during removal.

The Contractor’s personnel shall wear and utilize protective clothing and equipment as specified herein. **Eating, smoking, drinking, chewing gum, tobacco, or applying cosmetics shall not be permitted in the asbestos work or control areas.**

Personnel of other trades not engaged in the removal of asbestos containing material shall not be exposed at any time to airborne concentrations of asbestos unless all the personnel protection and training provisions of this specification are complied with by the trade personnel.

The Contractor shall seal off or shut down the building heating, ventilating, and air conditioning system, cap the openings to the system, and provide temporary heating, and ventilation, and air conditioning prior to the commencement of asbestos work if required for other building occupants. Disconnect electrical service when wet removal is performed and provide temporary electrical service with verifiable ground fault circuit interrupter (GFCI) protection prior to the use of any water or encapsulant.

If an asbestos fiber release or spill occurs outside of the asbestos control area, stop work immediately, correct the

condition to the satisfaction of the Contracting Officer including Third Party clearance sampling, prior to resumption of work.

1.9.1 Protection of Existing Work to Remain

The Contractor shall perform work without damage or contamination of adjacent work. Where such work is damaged or contaminated as verified by the Contracting Officer using visual inspection or sample analysis, it shall be restored to its original condition or decontaminated by the Contractor at no expense to the Government as deemed appropriate by the Contracting Officer. This includes inadvertent spill of dirt, dust, or debris in which it is reasonable to conclude that asbestos may exist.

When these spills occur, stop work immediately. Then clean up the spill. When satisfactory visual inspection and air sampling results are obtained from the PQP work may proceed at the discretion of the Contracting Officer.

1.9.2 Furnishings

Some furniture and equipment may be left inside the rooms which will undergo Asbestos abatement. The Asbestos Abatement Contractor shall clean all remaining furniture and equipment after the abatement has been completed. A visual inspection shall be completed for all cleaned furniture and equipment. If the visual inspection fails, the Asbestos Abatement Contractor shall be required to clean the furniture and equipment again.

1.9.3 Precleaning

If an enclosure is needed, the Contractor shall wet wipe and HEPA vacuum all surfaces potentially contaminated with asbestos prior to the establishment of an enclosure.

1.9.4 Visual Inspection

Prior to removal of plastic barriers and after pre-clearance clean-up of gross contamination, the PQP shall conduct a visual inspection of all areas affected by the removal in accordance with ASTM E1368. Inspect for any visible fibers.

1.9.5 Site Inspection

While performing asbestos engineering control work, the Contractor shall be subject to on-site inspection by the Contracting Officer who may be assisted by or represented by safety or industrial hygiene personnel. If the work is found to be in violation of this specification, the Contracting Officer or his representative shall issue a stop work order to be in effect immediately and until the violation is resolved. All related costs including standby time required to resolve the violation shall be at the Contractor's expense.

2.0 METHODS OF COMPLIANCE

2.0.1 Mandated Practices

The specific abatement techniques and items identified shall be detailed in the Contractor's Asbestos Abatement Plan. The Contractor shall use the following engineering controls and work practices in all operations, regardless of the levels of exposure:

a. Vacuum cleaners equipped with HEPA filters.

b. Wet methods or wetting agents except where it can be demonstrated that the use of wet methods is unfeasible due to the creation of electrical hazards, equipment malfunction, and in roofing.

c. Prompt clean-up and disposal.

d. Inspection and repair of polyethylene.

e. Cleaning of equipment and surfaces of containers prior to removing them from the equipment room or area.

2.0.2 Control Methods

The Contractor shall use the following control methods:

a. Local exhaust ventilation equipped with HEPA filter;

b. Enclosure or isolation of processes producing asbestos dust;

c. Where the feasible engineering and work practice controls are not sufficient to reduce employee exposure to or below the PELs, the Contractor shall use them to reduce employee exposure to the lowest levels attainable and shall supplement them by the use of respiratory protection.

2.0.3 HOUSEKEEPING

Essential parts of asbestos dust control are housekeeping and clean-up procedures. The Contractor shall maintain surfaces of the asbestos control area free of accumulations of asbestos fibers. The Contractor shall give meticulous attention to restricting the spread of dust and debris; keep waste from being distributed over the general area. Use HEPA filtered vacuum cleaners.

2.0.4 UNACCEPTABLE PRACTICES

THE USE OF HIGH-SPEED ABRASIVE DISC SAWS THAT ARE NOT EQUIPPED WITH POINT OF CUT VENTILATOR OR ENCLOSURES WITH HEPA FILTERED EXHAUST AIR ARE NOT ALLOWED. THE USE OF COMPRESSED AIR IS NOT ALLOWED. DRY SWEEPING, SHOVELING OR OTHER DRY CLEAN UP ARE NOT ALLOWED. THE USE OF FLOOR TILE REMOVAL/CHIPPING MACHINES ARE NOT ALLOWED. EMPLOYEE ROTATION AS A MEANS OF REDUCING EMPLOYEE EXPOSURE TO ASBESTOS IS NOT ALLOWED.

2.0.5 CLASS II WORK

In addition to the requirements of paragraphs Mandated Practices and Control Methods, the following engineering controls and work practices shall be used:

a. A Competent Person shall supervise the work.

b. For indoor work, critical barriers shall be placed over all openings to the regulated area.

c. Impermeable drop cloths shall be placed on surfaces beneath all removal activity, if appropriate.

2.0.12 SPECIFIC CONTROL METHODS FOR CLASS II WORK

2.0.12.1 VINYL AND ASPHALT FLOORING MATERIALS

When removing vinyl and asphalt flooring materials, which contain ACM and from a building in which ACM has not been verified, the Contractor shall use the following practices.

Resilient sheeting shall be removed by adequately wet methods. Tiles shall be removed intact (if possible). Flooring or its backing shall not be sanded. Scraping of residual adhesive and/or backing shall be performed using wet methods. Mechanical

removal/chipping machine is prohibited. Dry sweeping is prohibited. The Contractor shall use vacuums equipped with HEPA filter, disposable dust bag, and metal floor tool (no brush) to clean floors.

When asbestos removal is complete, all asbestos waste shall be removed from the work-site by the Contractor, and the final clean-up is completed. The final clearance testing shall be run by a Third Party Contractor. After receipt and approval of the results by the Contracting Officer and DPW Environmental Division Office personnel, the Contracting Officer shall attest that the area is safe before the signs can be removed. After final clean-up and acceptable airborne concentrations are attained, remove all pre-filters in the critical barrier area, and provide new pre-filters. Dispose of filters as asbestos contaminated materials.

The Contractor shall reestablish HVAC mechanical, and electrical systems in proper working order. The Contracting Officer shall visually inspect all surfaces within the enclosure for residual material or accumulated dust or debris.

The Contractor shall re-clean all areas showing dust or residual materials. If re-cleaning is required, air sample and establish an acceptable asbestos airborne concentration after re-cleaning. The Contracting Officer must agree that the area is safe in writing before unrestricted entry will be permitted.

2.0.12.2 REMOVAL OF ACM MASTIC OR ADHESIVE

Removing ACM mastic or adhesive, which remains on the floor once the floor tile has been removed, the Contractor shall use an odorless or low-odor solvent to turn the mastic into a liquid. The Contractor shall not be allowed to dry scrap the ACM mastic or adhesive. The Contractor shall conduct all work practices wet when removing ACM mastic or adhesive.

2.1 DISPOSAL OF ASBESTOS

2.1.1 Procedure for Disposal

The Contractor shall collect asbestos waste, asbestos contaminated water, scrap, debris, bags, containers, equipment, and asbestos contaminated clothing which may produce airborne concentrations of asbestos fibers and place in sealed fiber-proof, waterproof, non-returnable containers (e.g. doubled plastic bags 6 mils thick, Department of Transportation (DOT)

cartons, DOT drums or DOT cans). Wastes within the containers must be adequately wet in accordance with 40 CFR 61-SUBPART M.

The Contractor shall place the solvent/ACM mastic combination into DOT containers. The Contractor shall fill each container half full with the solvent/ACM mastic combination. The Contractor shall then place enough dry sweep into each container to turn the liquid in to a solid mass. No free flowing liquid shall be left to remain in each container.

Instead of using a DOT container, the contractor has the option of placing the solvent/ACM mastic combination into special Asbestos clear, see-through plastic bags which are 6 mils in thickness.

The Contractor shall affix a warning and DOT label to each container including the use of 6 mils thick plastic bags with the approved warnings and DOT labeling preprinted on the bag. The name of the waste generator and the location at which the waste was generated shall be clearly indicated on the outside of each container.

The Contractor shall prevent contamination of the transport vehicle (especially if the transport vehicle is a rented truck likely to be used in the future for non-asbestos purposes). These precautions include lining the vehicle cargo area with plastic sheeting (similar to work area enclosure) and thorough cleaning of the cargo area after transport and unloading of asbestos debris is complete.

The Contractor shall dispose of waste asbestos material at an Environmental Protection Agency (EPA) or State-approved asbestos landfill off Government property. For temporary storage, store sealed impermeable bags in asbestos waste drums or skids. An area for interim storage of asbestos waste-containing drums or skids will be assigned by the Contracting Officer or his authorized representative.

Procedure for hauling and disposal shall comply with 40 CFR 61-SUBPART M, State, regional, and local standards. Sealed plastic bags may be dumped from drums into the burial site unless the bags have been broken or damaged. Damaged bags shall remain in the drum and the entire contaminated drum shall be buried.

Uncontaminated drums may be recycled. Workers unloading the sealed drums shall wear appropriate respirators and personal

protective equipment when handling asbestos materials at the disposal site.

2.2 LANDFILL APPROVAL

Prior to disposal, the Contractor shall submit written evidence that the sanitary landfill will accept the non-friable asbestos special waste. Within 3 working days after delivery, the Contractor shall submit detailed delivery tickets, prepared, signed, and dated by an agent of the landfill, certifying the amount of asbestos materials delivered to the landfill. The Contractor shall submit a copy of the waste shipment paper records within 1 day of the shipment leaving the project site.

2.3 ASBESTOS CONTROL AREA REQUIREMENTS

2.3.1 Negative Pressure Enclosure (NPE)

A Negative Pressure Enclosure is not required for asbestos removal as long as the asbestos remains non-friable. Otherwise, the Contractor shall establish enclosure as described below.

The Contractor shall block and seal openings in areas where the release of airborne asbestos fibers can be expected. The Contractor shall establish an asbestos NPE with the use of curtains, portable partitions, or other enclosures in order to prevent the escape of asbestos fibers from the contaminated asbestos work area.

NPE development shall include protective covering of uncontaminated walls, and ceilings with a continuous membrane of two layers of minimum 6-mil plastic sheet sealed with tape to prevent water or other damage. Provide two layers of 6-mil plastic sheet over floors and extend a minimum of 12 inches up walls. Seal all joints with tape. Provide local exhaust system in the asbestos control area.

The NPE system shall be as shown in the Contractor’s Asbestos Abatement Plan. The system shall provide at least four (4) air changes per hour inside the containment. The local exhaust unit equipment shall be operated 24 hours per day until the containment is removed.

The NPE shall be smoke tested for leaks at the beginning of each shift and be sufficient to maintain a minimum pressure differential of minus 0.02 inch of water column relative to adjacent, unsealed areas. Pressure differential shall be

monitored continuously, 24 hours per day, with an automatic manometric recording instrument and records shall be provided daily on the same day collected to the Contracting Official. The Contracting Official shall be notified immediately if the pressure differential falls below the prescribed minimum. The building ventilation system shall not be used as the local exhaust system for the regulated area. The NPE shall terminate outdoors unless an alternate arrangement is allowed by the Contracting Official. All filters used shall be new at the beginning of the project and shall be periodically changed as necessary and disposed of as ACM waste.

2.3.2 ENTRANCE/EGRESS DOOR OPENINGS

Three way plastic door openings shall be used in enclosures of asbestos control areas for personnel and equipment entry and exit, the supply and exhaust of air for the local exhaust system and the removal of properly containerized asbestos containing materials. Replace local exhaust system filters as required to maintain the efficiency of the system.

2.4 REMOVAL PROCEDURES

The Contractor shall wet asbestos material with a fine spray of amended water during removal or other handling so as to reduce the emission of airborne fibers. The Contractor shall remove material and immediately place in 6 mil plastic disposal bags. The Contractor shall remove ACM in a gradual manner, with continuous application of the amended water or wetting agent in such a manner that no asbestos material is disturbed prior to being adequately wetted. Where unusual circumstances prohibit the use of 6 mil plastic bags, the Contractor shall submit an alternate proposal for containment of asbestos fibers to the Contracting Officer for approval.

ACM shall be containerized while wet. At no time shall ACM be allowed to accumulate or become dry. Lower and otherwise handle asbestos containing material as indicated in 40 CFR 61-SUBPART M.

2.5 AIR SAMPLING

Sampling of airborne concentrations of asbestos fibers shall be performed in accordance with 29 CFR 1926.1101 and as specified herein. Sampling performed in accordance with 29 CFR 1926.1101 shall be performed by the PQP. Sampling performed for environmental and quality control reasons shall be performed by

the PQP. Unless otherwise specified, use NIOSH Method 7400 for sampling and analysis. Monitoring may be duplicated by the Government at the discretion of the Contracting Officer. If the air sampling results obtained by the Government differ from those results obtained by the Contractor, the Government will determine which results predominate.

2.6 SAMPLING PRIOR TO ASBESTOS WORK

The Contractor’s representative shall provide area air sampling and establish the baseline prior to the masking and sealing operations for each removal site. Establish the background by performing area sampling in similar but uncontaminated sites in the building.

2.7 SAMPLING DURING ASBESTOS WORK

The PQP shall provide personal and area sampling as indicated in 29 CFR 1926.1101 and governing environmental regulations. In addition, provided the same type of work is being performed, provide area sampling at least once every work shift close to the work inside the enclosure, outside the clean room entrance to the enclosure, and at the exhaust opening of the local exhaust system.

If sampling outside the enclosure shows airborne levels have exceeded background or 0.01 fibers per cubic centimeter, whichever is greater, stop all work, correct the condition(s) causing the increase, and notify the Contracting Officer immediately.

2.8 SAMPLING AFTER FINAL CLEAN-UP (THIRD PARTY CLEARANCE SAMPLING)

After the work area has been rendered free of visible residues and inspected, clearance sampling may begin by a Third Party Contractor.

The Phase Contrast Microscopy (PCM) samples shall be tested in accordance to the NIOSH 7400 method. Final air clearance shall not be achieved until all samples taken are equal to or less than 0.01 fibers/cubic centimeter (f/cc).

A copy of the clearance sampling analysis shall be submitted to the Contract Inspector to give to the DPW Environmental Division Office for review and approval prior to any further testing or tear down of the abatement area.

If the clearance sampling results are greater than 0.01 f/cc then the barrier (room) shall be re-cleaned using wet methods and HEPA vacuum(s). Another round of clearance samplings and re-cleanings shall continue until all samples taken are equal to or less than 0.0.1 f/cc.

2.9 TITLE TO MATERIALS

All waste materials, except as specified otherwise, shall become the property of the Contractor and shall be disposed of as specified in applicable local, State, and Federal regulations and herein.

3.0 DISPOSAL OF ASBESTOS

3.0.1 Procedure for Disposal

The Contractor shall collect asbestos waste, asbestos contaminated water, scrap, debris, bags, containers, equipment, and asbestos contaminated clothing which may produce airborne concentrations of asbestos fibers and place in sealed fiber-proof, waterproof, non-returnable containers (e.g. double plastic bags 6 mils thick, DOT cartons, DOT drums or DOT cans). Wastes within the containers must be adequately wet in accordance with 40 CFR 61-SUBPART M.

The Contractor shall properly dispose of all Non-Friable ACM floor tile in an approved Sanitary Landfill which knowingly accepts ACM. All disposal costs shall be the responsibility of Contractor.

Once the waste has been properly containerized and the load is ready to be shipped off Fort Leavenworth, Kansas, property, the Contractor shall notify the Contracting Officer who shall then notify DPW Environmental Division Office, (913) 684-3307, to inspect each individual load and the completed but yet unsigned Bill of Lading (Waste Shipment Paper). If approved, DPW Environmental Division Office shall sign the paperwork and the contractor can ship the waste off Post property.

Sealed plastic bags may be dumped from drums into the burial site unless the bags have been broken or damaged. Damaged bags shall remain in the drum and the entire contaminated drum shall be buried. Uncontaminated drums may be recycled. Workers unloading the sealed drums shall wear appropriate respirators

and personal protective equipment when handling asbestos materials at the disposal site.

3.1 ASBESTOS WASTE SHIPMENT REPORT

The Contractor shall notify the Sanitary Landfill and inform the Sanitary Landfill that the Contractor shall be placing ACM in the designated Asbestos special waste area of the landfill. The Contractor shall attain a Waste Shipment Record from the Sanitary Landfill for each load of ACM placed in the landfill and turn in a copy of the signed by the landfill Waste Shipment Record to the Contracting Official.

3.2 SUBMITTALS

The Contractor shall submit to the Contracting Official an Asbestos Abatement Plan prior to the start of this contract for review, comment and final approval.

3.3 PRODUCT DATA

Manufacturer's catalog data for all materials and equipment to be used, including brand name, model, capacity, performance characteristics, test results, certificates and any other pertinent information. Safety Data Sheets for all chemicals to be used onsite in the same format as implemented in the Contractor's HAZARD COMMUNICATION PROGRAM. Data shall include, but shall not be limited to, the following items:

a. High Efficiency Filtered Air (HEPA) local exhaust equipment

b. Vacuum cleaning equipment

c. Pressure differential monitor for HEPA local exhaust equipment

d. Air monitoring equipment

e. Respirators

f. Personal protective clothing and equipment

g. Duct Tape

h. Disposal Containers

i. Plastic Sheeting

j. Wetting Agent

k. Strippable Coating

l. Prefabricated Decontamination Unit

m. Safety Data Sheets (for all chemicals proposed).

3.4 QUALIFICATIONS

The Contractor shall provide a written report citing evidence of qualifications for personnel, facilities and equipment assigned to the work.

3.5 TRAINING PROGRAM

The Contractor shall provide a copy of the written project site-specific training material as indicated in 29 CFR 1926.1101 that will be used to train onsite employees.

3.6 LICENSES, PERMITS, AND NOTIFICATION.

Licenses, permits, and notifications.

3.7 TEST REPORTS

3.7.1 Exposure Assessment and Air Monitoring.

The Contractor shall provide all initial exposure assessments, negative exposure assessments, air-monitoring clearance test results and documentation.

3.8 CERTIFICATES

3.8.1 Local Exhaust System

Manufacturer's certifications showing compliance with ANSI Z9.2 for:

a. Vacuums.

b. Water filtration equipment.

c. Ventilation equipment.

d. Other equipment required to contain airborne asbestos fibers.

3.8.2 Medical Surveillance Requirements

The Contractor shall provide the required medical certification and the Physician's written opinion for his employees.