

**Bid #20-07 Window and Exterior Door Replacement at Buildings #4 and #12  
at Camden County Technical School, Gloucester Township Campus  
Addendum #1  
April 8, 2021**

This Addendum dated April 8, 2021 for **Bid # 20-07 Window and Exterior Door Replacement at Buildings #4 and #12 at Camden County Technical Schools, Gloucester Township Campus** shall be included as part of the Contract Bid Documents and shall be acknowledged by bidder on Exhibit Q. This Addendum makes certain changes to the Contract Bid Documents.

1. **The completion date shall be revised to November 1, 2021. All work performed after September 1, 2021 is required to be done during 2<sup>nd</sup> Shift.** All work must be completed on an opening by opening basis and cleaned up daily to provide a safe, clean environment for student occupancy.
2. In Specification Section 08520 – Aluminum Projection Windows, Page 08620-7: Delete item 2.3 Glazing and replace it with the following 2.3 Glazing REVISED:
  - 2.3 Glazing
    - A. **Base Bid Glass:** Manufacturer’s standard “triple glazed” factory-glazing system that produces weathertight seal as indicated in Division 8 Section “Glazing”. System shall incorporate “triple glazing” application with 1” I.G.U. @ exterior lite, 1” internal W.A.C.I blinds, and ¼” removable takeout panel with custodial screw head release mechanism. The head and sill rails of the blinds shall be extruded aluminum and all tilting of the internal blinds shall be performed without opening of the interior removable takeout panel.
    - B. Glazing System: Manufacturer’s standard “insulated” factory-glazing system that produces weathertight seal as indicated in Division 8 Section “Glazing”.
3. In Specification Section 08710 – Finish Hardware: The lock cylinders and combined cores shall be Yale Manufacturing to match the Campus Standard. The Owner’s Locksmith, Arnold’s Safe & Lock will confirm precise keyway, cylinder, and keying requirements.
4. All caulk, window glazing, transite panels and interior windowsills are confirmed or assumed ACM. Existing windowsills are to remain as indicated on the construction plans. The contractor shall not drill, cut or grind the existing sills. See the attached Specification Section 17000 – Asbestos Abatement – Added per Addendum #1. **(12 pages)**

**The following questions were posed:**

1. In regards to this project, I wanted to address an issue that I assume you are aware of, but maybe not. The completion date of Aug 20<sup>th</sup> 2021 is unrealistic given the general lead time on windows. Windows would not be received by Aug 20<sup>th</sup>, let alone installed, assuming lead times are the same in a month or so as they are now.

**ANSWER: The completion date shall be revised – See Item #1 of this Addendum.**

2. In specification section 08520 Aluminum Projection Windows, Part 2.3 Glazing, B. Alternate # 1 Bid Glass (*see attached*). This alternate is not listed on the bid form. Should we include the glazing alternate with the listed alternate # 1 on the bid form (*see attached*)?

**ANSWER: This glazing is not an alternate and should be included in the Base Bid Price. See Item #2 of this Addendum.**

**SECTION 1**  
**SUMMARY OF WORK**

1.1 GENERAL

1.1.1 This Asbestos Removal Guide or Work Plan gives the proper removal, transportation and disposal procedures to be used by the Abatement Contractor for the safe removal of the following asbestos-containing building materials (ACBMs).

1.1.2 The individual buildings at the subject property included in this assessment include the following structures:

Buildings 4 and 12.

1.1.3 All caulk, window glazing, transite panels and interior window sills are confirmed or assumed ACM. Existing window sills are to remain as indicated on the construction plans. The contractor shall not drill, cut or grind the existing sills.

1.2 GENERAL REQUIREMENTS

The Contractor shall get familiarized with the conditions for the project and is responsible for estimating the quantities and verifying the locations of all work to be performed as outlined in this specification. Failure to do so shall not relieve the Contractor of his obligation to furnish all materials and labor necessary to carry out the provisions of the Contract. **The locations and quantities of ACBM should be field verified by the Contractor prior to bidding.**

1.3 CODES AND REGULATIONS

1.3.1 General Applicability of Codes, Regulations and Standards: Except to the extent that more explicit or more stringent requirements are written directly into the contract documents, all applicable codes, regulations, and standards have the same force and effect (and are made a part of the contract documents by reference) as if copied directly into the contract documents, or as if published copies are bound herewith.

1.3.2 Federal Regulations: Those which govern asbestos abatement work or hauling and disposal of asbestos waste materials including but not limited to the following:

U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA), including but not limited to:

General Industry

Title 29, Part 1910, Section 1001 of the Code of Federal Regulations

Respiratory Protection

Title 29, Part 1910, Section 134 of the Code of Federal Regulations

Construction Industry

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Title 29, Part 1910.1101, and 1926.62 of the Code of Federal Regulations

Access to Employee Exposure & Medical Records

Title 29, Part 1910, Section 1200 of the Code of Federal Regulations

Specifications for Accident Preventative Signs and Tags

Title 29, Part 1910, Section 145 of the Code of Federal Regulations

U.S. Environmental Protection Agency (EPA) including but not limited to:

Worker Protection Rule

40 CFR Part 763, Subpart G

CPTS 62044, FKR 2843-9

Federal Register, Vol. 50, No. 134, 7/12/85

Regulation for Asbestos

Title 40, Part 61, Subpart A of the

Code of Federal Regulations

National Emission Standard for Asbestos

Title 40, Part 61, Subpart M of the Code of

Federal Regulations including Asbestos NESHAP

Revision; Final Rule, Federal Register;

Tuesday, November 20, 1990

Asbestos Hazard Emergency Response Act (AHERA)

Regulations 40 CFR 763 Subpart E

U.S. Department of Transportation (DOT) including but not limited to:

Hazardous Substances: Final Rule

Regulation 49 CFR, Parts 171 and 172

- 1.3.3 State and Local Regulations: Abide by all state and local regulations which govern asbestos work or hauling and disposal of waste materials, including but not limited to the N.J.D.O.L., N.J.D.C.A., N.J.D.O.H., and N.J.D.E.A.

1.4 SCOPE

- 1.4.1 This project includes isolated removal of non-friable ACBMs as identified in this specification or as directed by the contract documents. These operations shall comply with OSHA Class II asbestos work requirements and EPA AHERA requirements. The scope of work is as follows:
- 1.4.2 Contactor shall submit pre-work submittals (1 copy) for review, prior to work. The submittals shall contain, but not be limited to, all licenses; personnel information; and a work plan describing all methods of ACBM abatement to be used.

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- 1.4.3 Contractor shall supply all the necessary tools, equipment, labor, construction/abatement activity materials, waste transporter/can (enclosed disposal unit) and delivery of the waste to an appropriate waste disposal facility to complete the work as specified by this document and/or by the contract agreement.
- 1.4.4 Owner will provide access to the site. Contractor coordinate with the Owner in order to provide a source of water.
- 1.4.5 Contractor, as a minimum, shall isolate the work areas in accordance with appropriate sections of CFR 1926.1101(g) as well as the approved work plan. A temporary airtight barrier, as required, shall be constructed to separate the work areas from the occupied areas in order to maintain service to these areas of the building. This barrier shall be constructed of polyethylene sheeting. Penetrations through the barrier shall be sealed with appropriate sealant.
- 1.4.6 Contractor shall remove and dispose of ACBMs as in this specification. Quantities and locations of the ACMs at the facility are to be determined by the Contractor.
- 1.4.7 The scope of the project shall include removal of all observable and identified ACMs regardless of quantity. Only materials that are concealed and could not have been reasonably identified or anticipated at the time of the bidding shall be considered for additional payment in accordance with the Contract documents.
- 1.4.8 All small movable objects shall be removed from the work areas. Large moveable objects left inside each work area shall be covered by a minimum of one layer of 4-mil polyethylene sheeting.
- 1.4.9 Contractor shall coordinate all work times with the Project Manager and owner.
- 1.4.10 Contractor is to submit close out documents within 15 days of completion, to include, but not limited to, TEM air tests, waste manifest(s), personal testing (PEL/STEL), licenses, and project logs.

**SECTION 2**  
**PROJECT CLOTHING AND EQUIPMENT**

2.1 RESPIRATORS

- 2.1.1 Contractor shall comply with *29 CFR 1926.1101(h) and the OSHA General Industry Respirator Protection Standard in CFR 1910.134* and initiate appropriate respirator program. A powered air-purifying respirator shall be used for Class I asbestos work, where negative exposure assessment of the work area has not been produced. A minimum of half-mask air purifying respirators with dual HEPA (High Efficiency Particulate Air) filters shall be used during work area preparation and removal of non friable materials. Approved organic canisters shall be utilized in conjunction with the asbestos filters during mastic removal. A minimum of full-face powered air purifying respirators (PAPR) with HEPA filtration shall be utilized during the removal of friable materials.
- 2.1.2 All respirators shall be approved by the National Institute of Occupational Safety and Health (NIOSH) for use in asbestos-containing atmospheres.
- 2.1.3 Each worker must perform positive and negative air pressure fit tests each time a respirator is out on or as respirator designs permit. Supplied air respirators shall be tested for adequate flow as specified by the manufacturer.
- 2.1.4 No one wearing a beard or other facial hair which will prevent a proper respirator seal shall be allowed to wear a respirator or enter the regulated area.

**SECTION 3**  
**SITE PREPERATION FOR ASBESTOS REMOVAL**

3.1 WORKSITE PREPERATION

- 3.1.1 All movable objects shall be removed from the containment area. Cleaning of contaminated items shall be performed if the items are to be salvaged or reused. Otherwise, they shall be properly disposed of as asbestos waste. All non-movable objects that remain in the containment area shall be covered with a minimum of 4-mil plastic sheeting, secured in place.
- 3.1.2 Prior to the start of any ACM removal, two layers of 6-mil polyethylene sheeting shall be installed on the interior of the building at each window and door opening to act as an airtight barrier separating the work area from the interior space. The poly shall be attached with duct tape or other suitable means. The barrier shall remain in place and be maintained until the final air clearance tests are completed and accepted by the Owner's asbestos consultant. Alternate barrier methods may be used if approved by the consultant and Owner's Representative.

3.2 WORKSITE ENCLOSURES AND CRITICAL BARRIERS

- 3.2.1 The contractor shall isolate the regulated area per EPA regulation *40 CFR 61.145 (c) (3) (B)*, *OSHA Standard 29 CFR 1926.1101(e)* and AHERA regulations. The regulated areas shall be roped off and marked with clearly written warning labels in order to keep unauthorized personnel out of the regulated area. The regulated area shall encompass the whole area expected to have an airborne fiber concentration greater than 0.01 fibers per cubic centimeter (f/cc) as a result of the removal activities and not the other non-related activities conducted in the building.
- 3.2.2 Regulated areas within which asbestos abatement is to be conducted shall be separated from adjacent areas by impermeable barriers such as plastic sheeting attached securely in place. All openings between containment areas and adjacent area, including but not limited to windows, doorways, elevator openings, corridor entrances, ventilation openings, drains, ducts, grills, grates, diffusers, and skylights shall be sealed. All penetrations that could permit air infiltration or air leaks through the barrier shall be sealed, with the exception of the make-up air provisions and the means of entry and exit.

**SECTION 4**  
**ASBESTOS REMOVAL AND DISPOSAL PROCEDURES**

4.1 GENERAL

- 4.1.1 Demarcate the work area with signs and barrier tape.
- 4.1.2 Access to regulated areas shall be limited to authorized personnel only.
- 4.1.3 All persons entering a regulated area are required to wear respirators. The maximum respiratory protection for this scope of work is ½ mask air purifying respirator with HEPA filters unless fiber concentrations require greater protection. The Contractor is responsible for appropriate selection.
- 4.1.4 The Contractor shall not generate visible dust emissions during abatement activities. All abatement work will be stopped if visible emissions are observed.

4.2 DEFINITIONS

- 4.2.1 Class I Work  
Class I Work means activities involving the removal of **TSI**, spray-on fireproofing, fire doors, surfacing ACBM and presumed asbestos-containing material (PACM).
- 4.2.2 Class II Work  
Class II Work means activities involving the removal of ACBM that is not TSI or surfacing material. This includes, but is not limited to, the removal of asbestos-containing floor tile and vinyl floor sheeting, cementitious panels (including chalkboards), roofing, construction mastics (and chalkboard glue dots), and window caulking.
- 4.2.3 Wetting Materials:  
A wetting material shall be used to minimize the amount of airborne asbestos fibers released during removal of asbestos from a structural unit and to encapsulate the removed asbestos. For wetting prior to disturbance of ACBM, use either amended water or removal encapsulant:
  - 4.2.3.1 Amended Water: Provide water to which a surfactant has been added. Use a mixture of surfactant and water which results in wetting of the Asbestos-Containing Material and retardation of fiber release during disturbance of the material equal to or greater than provided by the use of one ounce of a surfactant consisting of 50% polyoxyethylene ester and 50% polyoxyethylene ether mixed with five gallons of water.



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4.2.3.2 Removal Encapsulant: Provide a penetrating type encapsulant designed specifically for removal of ACBM. Use a material which results in wetting of the Asbestos-Containing Material and retardation of fiber release during disturbance of the material equal to or greater than that provided by water amended with a surfactant consisting of one ounce of a mixture of 50% polyoxyethylene ester and 50% polyoxyethylene ether in five gallons of water.

4.3 CLASS I WORK EXECUTION

It is not anticipated that there will be any Class I removal required for this project.

4.4 CLASS II WORK EXECUTION

4.4.1 Competent Person: All Class II work shall be supervised by a competent person as defined by the regulation.

4.4.2 Critical Barriers: Critical barriers shall be placed over all openings to the regulated area or utilize an alternate barrier or isolation method which prevents migration of airborne asbestos from the regulated area and meets the requirements of the regulations.

4.4.3 Impermeable Dropcloths: Impermeable dropcloths shall be placed on surfaces beneath all removal activity. Dropcloths shall extend horizontally in all directions one foot for every vertical foot the work surface is above the floor.

4.4.4 Controls: Comply with the work practices specified for each type of Class II asbestos work being performed as outlined in the following sections.

4.4.5 HEPA Filtration: Vacuums, powered saws and other equipment which may generate asbestos fibers shall be equipped with HEPA-filtered exhausts.

4.4.6 Wet Methods: Wet methods or wetting agents to control employee exposures shall be employed.

4.4.7 OSHA requires the prompt cleanup of wastes and debris and placement in leak-tight containers and labeled with the following information:

**DANGER  
CONTAINS ASBESTOS FIBERS  
AVOID CREATING DUST  
CANCER AND LUNG DISEASE HAZARD**

4.5 FLOORING MATERIALS AND ASSOCIATED MASTICS

It is not anticipated that any ACM flooring will be disturbed. However, should it be required in order to fulfill the intent of the Contract Documents, the following procedures shall be implemented:

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- 4.5.1 Pre-clean the work area by first using HEPA-vacuum equipment, then use wet cleaning methods until the area is visibly free of dust and debris.
  - 4.5.2 Post warning signs which comply with regulations.
  - 4.5.3 Carpet or other materials overlaid on tile must be removed within containment if floor tile fragments adhere to the carpet when removed. These materials shall be discarded as asbestos contaminated waste.
  - 4.5.5 Soak flooring with amended water for a sufficient time to allow removal intact with breakage kept to a minimum. Take precautions to contain water within the work area and prevent damage to areas outside the work area. Mist the work area and keep materials wet during removal.
  - 4.5.6 Remove mastics using approved chemical mastic remover. All mastics must be removed. Substrate must be clean with no residue. No rotary equipment or sanding is allowed.
  - 4.5.7 Dispose of flooring as asbestos-containing waste in double 6-mil plastic bags. Materials shall remain adequately wet once bagged.
  - 4.5.8 Dispose of chemical mastic remover as per manufacturer’s instructions, Federal, State, and local regulations.
- 4.6 WINDOW AND PANEL CAULK
- 4.6.1 All window caulking adhering to any building wall components must be properly removed prior to window removal. The caulking appears to be applied to the interface of the window frames and the wall opening, but some caulking could extend under the frames and must be removed completely after each frame is removed. All visible caulking must be completely removed from all sides of each window opening.
  - 4.6.2 Exterior Caulk Removal using amended water, wet the exterior caulk. The interior face of the window will be isolated using 6-mil, minimum thickness, plastic sheeting. This plastic sheeting will be erected to separate the window opening from areas where no abatement is occurring. Manually remove the bulk of the window, door, and brick joint caulk using hand tools or HEPA-shrouded electric scrapers. Vacuum the window ledge, door edges, and brick joints using a HEPA vacuum, or other means as necessary to achieve the appropriate level of cleanliness. Following removal of the exterior caulk materials, the ASM will be notified to conduct visual observation. Note: it is the primary GOAL of this abatement project to produce No Visible Emissions during the execution of this Work Plan.

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### 4.7 TRANSITE PANELS AND WINDOW GLAZING

The scope of this Project includes the removal and replacement of windows and doors along with adjacent curtain walls, panels, sidelights and transoms as shown on the plans. The panels are all shown on the plans. The panels are all confirmed or assumed ACBMs and consist of transite clad with ceramic coated metal.

All exterior panels and black window glazing are confirmed or assumed ACMs. Care shall be taken not to break any windows. Any loose pieces of glazing compound shall be removed via wet methods and/or HEPA vacuuming. It is permissible to remove the entire window assembly with intact glazing compound left in place so long as the window assemblies are handled carefully, all glazing compound is adequately wetted with amended water, and the Contractor employs effective and compliant control methods to prevent further breakage and releases of glazing compound during removal of the window assemblies.

The panels must be removed intact so that at no time the transite is exposed. The Contractor shall remove the entire panel and frame as one unit. However, should a panel become dislodged or separated from the frame, the edges of the panel shall be immediately sealed with duct tape to prevent exposure of the ACM.

- 4.7.1 Install two layers of six mil polyethylene sheeting on the inside face of the building using tape.
- 4.7.2 Cover the wall, sill, or other structure beneath the panel with one layer of four mil polyethylene sheeting. Cover the ground beneath the panel outward from the wall to a distance of one foot for each foot of material height.
- 4.7.3 Remove the metal framing, screws, caulking, or other means of attachment from the panel to allow removal of the panel whole. Use wet methods if this process disturbs the material.
- 4.7.4 Wrap asbestos containing materials with two layers of six mil polyethylene sheeting, or double bag prior to disposal.
- 4.7.5 Provide a temporary seal for the opening created in the structure by installing plywood or other weather tight material if required by the Base Building Package and/or the General Contractor.

### 4.8 WASTE DISPOSAL

- 4.8.1 Disposal bags shall be 6-mil polyethylene bags that are preprinted with labels as required by the applicable *Occupational Safety and Health Administration (OSHA) regulation and EPA NESHAPS Standard 40 CFR Part 61, Subpart M*. All asbestos waste shall be double bagged and goose-necked at the top to prevent fiber release.
- 4.8.2 The contractor shall take care to prevent asbestos material from clinging to the outside of the filled bags or containers. The bags shall be HEPA vacuumed and/or wet-wiped prior to leaving the work area.

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- 4.8.3 Authorized persons shall be protected by disposal clothing and a minimum of half-faced respirator while leading asbestos waste.
- 4.8.4 The enclosed cargo area of the truck or dumpster shall be lined with 6-mil polyethylene sheeting to prevent contamination from leaking containers. Trucks and dumpsters shall have lockable enclosed cargo areas.
- 4.8.5 Waste containers shall not be thrown into or out of the truck cargo area or dumpster.
- 4.8.6 Asbestos waste shall be disposed of in an approved landfill according to current state requirements.
- 4.8.7 A proper manifest shall be required of all off-site asbestos shipments per *EPA NESHAPS Standard 40 CFR Part 61, Subpart M*. The Owner shall be responsible for signing the waste manifest. The Asbestos Safety Monitor shall review the manifest prior to removal of waste from the site.
- 4.8.8 A copy of the waste manifest shall be sent to the Owner's Representative upon completion of the project.

**SECTION 5**  
**AIR MONITORING PLAN – ASBESTOS**

5.1 GENERAL PROCEDURES

Monitoring of airborne concentrations of asbestos fibers shall be in general accordance with *OSHA regulation 29 CFR 1926.1101(f) and Appendices A and B, and EPA-AHERA regulation 40 CFR 763.90 Subpart E* and as specified in this plan. The Contractor shall employ his own Consultant for personal air monitoring and submit the results to the Owner's Representative.

5.2 MONITORING PRIOR TO ABATEMENT

Area monitoring will be conducted by the Owner's consultant in the ACBM work area prior to the start of abatement operations in order to establish the airborne asbestos fiber concentrations in the work area prior to the commencement of removal operations. This result will establish an airborne fiber concentration in the work area during normal environmental conditions.

5.3 MONITORING DURING ABATEMENT

Area and personal monitoring shall be conducted by the Contractor to determine airborne fiber concentrations in and around the working environment. All air samples shall be referenced in the daily log.

5.3.1 Area Sampling

Monitoring of the areas inside and surrounding the abatement site shall be performed on a daily basis. The amount of air sampled shall be approximately 1,250 liters per sample. Reduction in air sample volumes may be necessary based on work activities and time constraints. If air monitoring outside of the regulated area shows air concentrations greater than the permissible exposure limit, (PEL-0.1 fibers/cc Time Weighted Avg.) the contractor's supervisor will be immediately notified.

5.3.2 Personal Sampling

Monitoring of workers shall be conducted as required by the *OSHA regulation 29 CFR 1926.1101 (f)*. Personal sampling is the responsibility of the Contractor.

5.4 FINAL CLEARANCE

Final clearance Transmission Electron Microscopy (TEM) sampling will be conducted by the Owner's consultant after the abatement is completed for each work area.

5.5 AIR SAMPLE ANALYSIS

TEM air samples shall be analyzed in accordance with AHERA by an accredited laboratory.

**SECTION 6**  
**FINAL CLEANUP PROCEDURES**

6.1 WORK AREA CLEAN-UP

The work area and the decontamination area shall be thoroughly cleaned after all work is finished.

6.2 METHOD OF CLEANUP

The area shall be cleaned up with HEPA vacuum and/or wet-wiped.

6.3 CLEAN-UP of POLYETHYLENE SHEETING

After vacuuming and/or wet-wiping, all of plastic sheeting shall be sprayed with an encapsulant and the disposed of as asbestos waste.

6.4 POST-CLEARANCE CLEAN-UP

Contractor shall remove all waste materials and equipment from job site within 24 hours of completion of the project (Final Clearance Notification verbally or written from the Consultant).