

## COMPLIANCE ENVIRONMENTAL, INC.

### SECTION 01013 - SUMMARY OF THE WORK - ASBESTOS ABATEMENT

#### PART 1 - GENERAL

##### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

##### 1.2 WORK COVERED BY CONTRACT DOCUMENTS

- A. **The Project** consists of targeted asbestos abatement at the Hodgson Vo-Tech High School as follows:
  - 1. **Project Name:** 2025 Targeted Asbestos Abatement at the Hodgson Vo-Tech High School.
  - 2. **Project Location:** Hodgson Vocational Technical High School, 2575 Glasgow Avenue, Newark, Delaware, 19702.
  - 3. **Owner:** New Castle County Vocational Technical School District, 1417 Newport Road, Wilmington, Delaware 19804.
  - 4. **Work Period:** **The work for the Base Bid item must be performed starting on June 16, 2025 and must be completed by August 10, 2025 with no exceptions. This work for the Alternate Bid item must be performed starting on June 16, 2025 and must be completed by September 30, 2025 with no exceptions. Completion includes receive the final clearance documentation including visual inspection, surface and air sampling and subsequent tear-down and demobilization.** Once the work is started, it must be completed as soon as possible. The performance of this work by the Contractor must not disrupt school operations.
  - 5. **Desired Work Schedule:** The Owner desires that all work be starting on June 16, 2025 and the Base Bid item completed by August 10, 2025 and the Alternate Bid item completed by September 30, 2025 without exception.
  - 6. **Prevailing Wage Rates:** State of Delaware Prevailing Wage Rates are in effect. The project is located in New Castle County. See attached letter.
  - 7. **Liquidated Damages:** The Contractor shall pay liquidated damages at the rate of \$ 2,000.00 per calendar day if completion is not achieved by August 10, 2025 for the Base Bid item work and by September 30, 2025 for the Alternate Bid item work.
  - 8. **Owner's Representative:** Compliance Environmental, Inc. (CEI) will represent the Owner on this project. CEI will be performing routine inspections during the Contractor's work and will act as a liaison between the Contractor and Owner. The Contractor shall provide adequate notice to CEI to provide site meetings and inspections. Adequate notice is the period of time agreed to by the Contractor and Professional Service Firm.
- B. **Contract Documents**, dated February 3, 2025 were prepared for the Project by Compliance Environmental, Inc., 150 South Bradford Street, Dover, Delaware 19904, CEI Project Number CEI-020325. Conditions and requirements are indicated on the Contract Documents including, but not limited to, this specification, drawings, and any addenda to the specifications.

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- C. **The Work** consists of the following: **The abatement of flooring within Section 3 and Section 9 must be performing using the specific abatement method as specified. Only the specified chemical mastic remover and cleaner shall be used on this project (See Appendix E).** The Contractor shall apply as many coats of chemical remover and cleaner as necessary to provide a smooth, asbestos free clean floor surface suitable for future floor use and waxing by Owner. Shot blasting includes the use of media proven to be effective for asbestos material removal. All equipment must have HEPA filters. Cut asbestos floor tile at doors to adjacent areas flush leaving no jagged edges. Seal cuts with two coatings of a bridging encapsulant to prevent asbestos fiber release.
1. **Main Building Section 3 (Base Bid Item):** Install sealed wooden barriers at locations shown on the drawings prior to the start of any work. Remove barriers after clearance has been granted for all work in this building section. Removal of asbestos floor tile mastic and asbestos cove base mastic at locations showing on the drawings and tables. Remove all assumed asbestos-containing materials. Flooring removal using shot blasting methods as specified. Use chemical mastic removal and cleaning methods on edges only as needed with the majority of the floor being removed by shot blasting methods. Provide a smooth, asbestos free, clean floor surface suitable for future floor use and waxing by Owner. Remove all identified and assumed asbestos-containing materials. Properly dispose of all wastes.
  2. **Shop Building Section 9 (Base Bid Item):** Removal of asbestos floor tile, asbestos mastic, cove base and asbestos cove base mastic at locations showing on the drawings and tables. Remove all assumed asbestos-containing materials. Flooring removal using shot blasting methods as specified. Use chemical mastic removal and cleaning methods on edges only as needed with the majority of the floor being removed by shot blasting methods. Provide a smooth, asbestos free, clean floor surface suitable for future floor use and waxing by Owner. Remove all identified and assumed asbestos-containing materials. Properly dispose of all wastes.
  3. **Greenhouse Building Section 10 (Alternate Bid Item):** Complete removal of all interior and exterior asbestos-containing materials for building demolition as shown on the drawings and tables. Completely dismantle all glass panels including structure and properly dispose. The Contractor shall completely remove all layers of material to access and abate asbestos-containing materials. Remove all identified and assumed asbestos-containing materials. Properly dispose of all wastes.

See the attached asbestos laboratory reports for additional information regarding bulk sampling results.

**For chemical mastic removal, use only 375 Odorless Mastic Remover. For chemical cleaning, use only 222 Heavy Duty Cleaner w/TSP. SDS information is attached to this specification in Appendix E.**

**Spaces contiguous and adjacent to the work areas contain asbestos-containing materials such as floor tile, floor mastic, covebase mastic and other building materials. Do not disturb materials not listed in this specification or locations outside of the work areas.**

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Work area location drawings are attached for use on this project. See Table 1 and 2 attached to this specification for additional information.

The Contractor shall include in its lump sum price the cost of removing all confirmed and assumed asbestos materials listed in this specification, on Tables 1 and 2, and all of the drawings.

**D. Work Activities** required by the Contractor to complete this project shall include the following.

- 1. Work to be Performed Under This Contact:** includes complete removal and proper disposal of all asbestos-containing materials at the project. Asbestos locations are shown on Contract Documents prepared by Compliance Environmental, Inc. The bulk sampling report is provided for reference.

The total estimated positive asbestos-containing materials to be abated and location is shown on the attached Table 1 and drawings and assumed asbestos-containing materials is attached as Table 2.

- 2. Work to be Performed Prior to Work Under This Contact:** The Owner shall remove desired non-fixed articles from work area(s) that are not contaminated. All non-fixed articles remaining in work areas shall be moved to non-work areas prior to the start of any asbestos abatement work by the Contractor at no additional cost to the Owner.

- 3. Project Site Notices:** The Contractor shall provide, as a minimum and at all times, at a visible location at the project site, the following:

- (i). Equal Employment Opportunity and Minimum Wage Information
- (ii). State of Delaware DNREC 10-Day Notification (provided by Contractor)
- (iii). State of Delaware Prevailing Wage Determination
- (iv). Site Supervisor and Worker Badges
- (v). Air Sampling Results
- (vi). Emergency Planning Procedures
- (vii). Subcontractor List
- (viii). Safety Data Sheets

- 4. Submittals Prior to Site Work:** The Contractor shall provide the following items to the Owner's Representative prior to asbestos abatement:

- (i). Signed Contracts.
- (ii). Signed Payment and Performance Bonds (as required).
- (iii). Certificate of Liability Insurance.
- (iv). Copy of the State of Delaware DNREC 10-Day Notification.
- (v). Project Schedule (with updates and needed).
- (vi). Completed Initial Exposure Assessment Form (Appendix C, Section 01562)
- (vii). Completed Certificates of Site Worker's Acknowledgment Forms (Appendix C, Section 01560).
- (viii). Complete list of Project Supervisors and Workers including names and addresses.

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(ix). Fit test results, medical results, and certifications for Project Supervisors and Workers (with updates and needed).

5. **Assumed Asbestos Materials (if applicable):** The project contains assumed asbestos-containing materials located in Table 2. The Contractor shall include in its lump sum price the cost of removing all assumed asbestos materials.
6. **Unit Prices:** The unit prices listed on the bid form could be used to adjust the Contractor's base bid and alternates, add or deduct, for changes in quantities on the project. However, the Owner reserves the right to accept or reject these listed unit prices and to ask the Contractor to provide other pricing based upon project conditions.
7. **Measurements and Dimensions:** It is the Contractor's responsibility to verify all measurements prior to the openings of the bids. Any discrepancies in the measurements or work site conditions must be made prior to the opening of the bids.
8. **Work Area Security & Protection:** In performing the work, the Contractor is responsible for the security of the work area and protection of any and all equipment, materials, and surfaces not scheduled for work activities. The Contractor shall not be provided with a key to building(s) where work is to be performed. **Since the school campus will be in operation during the project work period, the Contractor shall, at all times, take every measure to secure all work areas from intentional or accidental entry by non-authorized people.** It is the Contractor's responsibility to adequately barricade, sign and control access to work areas in such a way to prevent accidental access to Work Areas. Drop cloths shall be installed and used from all exterior access points to work areas. Plastic sheeting shall be installed by the Contractor to cover all articles and equipment remaining in work areas and other areas prior asbestos removal activities. All drop cloths and plastic sheeting shall be properly disposed by Contractor after use.
9. **Damage Repair & Missing Item Replacement:** The Contractor shall repair or replace, at his own expense, any damage occurring during his activities to any building component not scheduled for asbestos abatement or movement. Any damaged or missing items will be replaced or paid for by the Contractor prior to receipt of final contract payment.
10. **Payment Requests:** The Owner's Representative shall review and recommend payment of all invoices from the Contractor. Invoices shall be submitted by the Contractor in a form acceptable to both the Owner's Representative and Owner.
11. **Critical Barriers:** Critical barriers consisting of two (2) single layers of 6-mil polyethylene sheeting applied separately by the Contractor with varying tape lines shall be installed, as a minimum, at ventilation systems, doors, windows, electrical wall switches and receptacle, and other openings in the work area. See Section 01526 for more information.

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12. **Ventilation Systems:** The Contractor shall completely immobilize any ventilation systems in work areas by, as a minimum, by sealing supply and return ducts with critical barriers, locking and tagging the system “off,” notifying building operators, and providing proper labeling. See Section 01513 for more information.
13. **Toilet Facilities:** The Contractor shall provide toilet facilities for its use during the project.
14. **Waste Handling, Labeling and Disposal:** All asbestos materials shall be thoroughly and adequately wetted and double-bagged in 6-mil poly bags with both bags goosenecked or in double-layers of 6-mil poly for waste which will not fit into bags. All waste shall be sealed in a manner to prevent the contents of the bag from escaping. Double bagging within the work area inside of the containment is prohibited. Waste shall be wetted and placed into a single bagged (or poly wrap) inside of the containment work area and then moved out of the work area to the waste bag out area where the waste will be double bagged. The double bag shall also be goosenecked. All waste shall be properly handled and labeled for disposal by the Contractor. All asbestos-containing and contaminated materials shall be properly handled, labeled, stored, transported and disposed by the Contractor in accordance with all federal, state, and local laws, regulations, ordinances, guidelines and the requirements of this specification and the waste disposal facility requirements. Prior authorization is required prior to the Contractor using any open-top dumpsters on the project for asbestos-containing or assumed asbestos-containing wastes. The Owner reserves the right to accept or reject the use of any waste facility by the Contractor.
15. **Use of Amended Water:** The Contractor shall use amended water during all asbestos abatement activities. **Dry removal is prohibited on this project.** Care shall be taken by the Contractor considering the right amount of water required not to create leaking conditions or hazards to the work area or surrounding area, including the ceiling of the first floor. The Contractor shall ensure that proper back-flow protection at all sources of water are installed and maintained.
16. **Personal Protective Equipment:** Don personal protective equipment prior to entering the work area. Personal Protective Equipment (PPE) shall include as a minimum, full-body coveralls, head and foot covers, and full-faced PAPRs. Contractor employees shall not remove any PPE while in the work area.
17. **Mini-Containments (if applicable):** Mini-containments shall only be used where specified. The mini-containment shall be a free-standing structure constructed of a single layer of 6-mil plastic sheeting on the floor, ceiling and walls of the structure. The containment shall have a three-stage decontamination unit, with a shower, at the entrance to the containment and have negative air controls to establish and maintain at all times a minimum pressure differential of minus 0.02 inches of water. The containment shall have “asbestos danger signs” near all entrances and exits. All decontamination procedures shall be strictly implemented by the Contractor.

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18. **Sealed Wooden Barriers:** Install sealed wooden barriers at locations shown on the drawings prior to the start of any work. Remove barriers after clearance has been grant for all work in the building section. The barrier shall be constructed in a manner to prevent accidental entry into work areas. The Contractor shall place “Danger–Construction Area” signs at each barrier location mounted outside of protected areas in clear view. The barrier shall consist of, at a minimum, 5/8-inch thick OSB with wooden support studs at 16-inches on center for the floor to the bottom of the drop ceiling and completely cover the space from side to side of the opening. A single layer plastic 6-mil polyethylene sheeting shall be installed on both side of the barrier. Each layer of plastic sheeting will extend above the drop ceiling to the roof decking. Seal the space between the top of the wooden wall to the bottom of the roof decking. The barrier shall completely cover all openings and be installed in a manner to prevent damage to the building components, including but not limited to, paint, ceilings, floor coverings and building components.
19. **Floor Tile Machines (if applicable):** The use of floor tile machines are allowed on this project at the discretion of the Contractor and if the Contractor can demonstrate after bidding and prior to the start of the work, that proper usage and effective decontamination procedures will be used by the Contractor. If the Contractor elects to use a floor tile machine for any portion of the work herein, prior to it’s usage, the Contractor shall submit a written Work Plan for review and have the Work Plan approved from OMB/DFM and the Owner’s representative. The Work Plan shall contain, at a minimum, the following elements:
- (i). The floor tile machine(s) will be visually inspected by the Owner’s Representative prior to use on this Project to verify that the machine is clean and containing no viable debris or contamination. If not acceptable, the floor tile machine(s) cannot be used on this Project.
  - (ii). The Contractor shall be responsible for any damage caused by the machine(s).
  - (iii). Detailed description of the method(s) which will be used by the Contractor to decontaminate the equipment and verify using AHERA visual and air testing clearance protocols, that the equipment was effectively decontaminated. All visual and air testing required will be at no additional cost to the Owner. The Contractor shall provide documentation to the Owner’s Representative that it has passed all AHERA visual and air testing clearance protocols prior removal of any floor tile machines from its decontamination area.
  - (iv). Decontamination shall be performed prior to moving of the machine(s) out of any Work Area to effectively remove any asbestos residue. Decontamination shall be performed in a dedicated containment (the equipment decontamination/bag-out area can be used provided it can accommodate all of the required activities). After decontamination, the Contractor shall provide documentation to the Owner’s Representative that the machine was properly decontaminated prior to removal of the machine out of any Work Area including all air testing results.

**The Contractor acknowledges by submission of its bid, that there are no guarantees made by the Owner that approval of floor tile machines will be granted and the Contractor reaffirms that if floor tile machines are not approved for use on this project, that manual scrapping methods will be used to complete the project in accordance with the Specifications at no additional cost to the Owner.**

20. **Shot Blasting (Abrasive or Bead Blasting) Equipment and Use:** The Contractor shall provide any power needs for their equipment beyond Owner available connections at the buildings. Any shot blast equipment regardless of media used shall be equipped with a factory installed HEPA filtered vacuum system. At no time shall any equipment be used without HEPA filtered vacuum system on and working properly in accordance to the manufacturers standards and recommendations. Machines will be visually inspected by the Owner's Representative prior to use on the project to verify that the machine is clean and containing no viable debris or contamination. If not acceptable, machine cannot be used on this project. Decontamination shall be performed prior to moving of any machine out of any work area to effectively remove any asbestos residue. Decontamination shall be performed in a dedicated containment which may be the equipment decontamination/bag-out area if it can accommodate all of the required activities. After decontamination, the Contractor shall provide documentation to the Owner's Representative that the machine was properly decontaminated prior to removal of the machine out of any work area. All shot blast work shall be performed in full containment with critical barriers, negative air controls, and decontamination chambers. The minimum respiratory protection is PAPR when using the equipment. The Contractor shall use the appropriate media to provide a finished floor that is smooth and free from asbestos. Prior to using any shot blasting method, the floor tile must be manually scraped from the surface. After removal of the floor tile, the remaining mastic can then be removed using shot blasting. Amended water must be used at all times during shot blasting. The equipment and media shall be used by the Contractor in a manner not to scar or gouge the floor. Supervisors must ensure that workers involved in blasting activities are trained, competent and understand the task prior to using the blasting equipment. The machine operator must be familiar with the operating functions of blasting equipment before operation including emergency shut off, Deadman switches, first aid kit, and eye wash station. Only mastic and on the edges shall be removed using scraping methods, the chemical remover and cleaner. The Contractor shall apply as many coats of chemical remover and cleaner as necessary and perform shot blasting to provide a smooth, asbestos free clean surface suitable for future waxing by Owner.
21. **Chemical Mastic Remover and Cleaner:** For all chemical mastic remover and cleaner use on the project, **use only 375 Odorless Mastic Remover and 222 Heavy Duty Cleaner w/TSP. SDS information is attached to this specification for your use.** The Contractor shall follow at all times the directions and recommendations from the manufacturer. The Contractor shall apply as many coats of chemical remover and cleaner as necessary to provide a smooth, asbestos free clean floor surface suitable for future waxing by Owner.

22. Removal Procedures:

(i). **Floor Tile, Mastic and Cove Base with Mastic:**

Remove all floor tile and mastic down to the concrete floor within the limits of disturbance shown on the drawings within the work areas using the method as specified. Remove cove base and mastic at locations shown on the drawings. Remove all identified and assumed asbestos-containing materials. Flush cut to the edge of the floor tile outside the work area at all locations of floor tile interface to form a clean edge (no jagged edges) and apply two coats of a suitable clear bridging encapsulant to lock down to seal fibers at all saw cut locations. The Contractor shall follow the general and specific requirements for removal of asbestos-containing materials for each work area. The finished concrete surface shall be smooth, asbestos free clean surface suitable for use and future waxing by Owner. Install a three-stage decontamination unit, with shower, at the entrance to the work area containments. The decontamination units shall be installed in such a manner as to allow for separate equipment room/bag-out off to the side. **In No Instance Will the Personal Decontamination Unit Be Used for Bag-out or Equipment Passage.** Install and operate HEPA filtered air filtration devices. Pre-clean any areas needing critical barriers, and install critical barriers. All work areas shall consist of two (2) layers of 6-mil plastic sheeting as critical barriers and two (2) layers of 6-mil plastic sheeting on walls and ceilings. Establish and maintain at all times a pressure differential of minus 0.02 inches of water measured on a strip chart recorder or other approved method. The pressure differential recorder shall be checked several times daily by the Contractor. The Contractor shall supply a calibrated differential pressure manometer capable of monitoring and recording on a strip chart and measuring differential pressure of 0.005 inches of water. The manometer shall be equipped with an automatically activated alarm system which will sound a warning if the pressure rises above the minimum value. All strips charts will be submitted to the Owner's Representative at the completion of the project. **Work will not begin or continue until an adequate differential pressure is achieved and maintained.** Once negative air is established, the Contractor may start the removal work. The Contractor is responsible for proper handling, labeling, storage, transporting and disposal of all wastes. **The use of floor tile machines are allowed on this project at the discretion of the Contractor and if the Contractor can demonstrate after bidding and prior to the start of the work, that proper usage and effective decontamination procedures will be used by the Contractor in accordance with this Section. Prior approval before floor tile machine usage must be obtained from OMB/DFM and the Owner's representative.** All floor tile shall be thoroughly wetted and double-bagged in 6-mil poly bags and goose-necked or thoroughly wetted and wrapped in double-layers of 6-mil poly for proper disposal. The Owner shall provide water and electrical service for the Contractor's use during the work. All asbestos-containing and contaminated materials shall be properly handled, stored, transported and disposed by the Contractor in accordance with all Federal, State, and local laws, regulations, ordinances, guidelines, and the requirements of this Specification. Fiber and/or metal drums may be used. All daily air sampling will be laboratory analyzed by Phase Contrast

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Microscopy (PCM) methods unless the Owner or State Agency requires other methods. Final air clearance samples will be by TEM. See Sections 01529, 02081, 02087 and this specification for more information.

(ii). **Window Glazings:**

The Greenhouse Building contains window glazing. Completely dismantle all glass panels including structure and properly dispose. The Contractor shall completely remove all layers of material to access and abate asbestos-containing materials. Remove all identified and assumed asbestos-containing materials. The finished surface shall be smooth and free from asbestos-containing materials. The Contractor shall use proper means, methods and work practices to prevent asbestos fibers, fragments and contaminated dusts from falling past designated work areas. Asbestos-containing materials shall be removed from building materials to the best extent possible. The Contractor is responsible for proper handling, labeling, storage, transporting and disposal of all wastes in accordance with all Federal, State, and local laws, regulations, ordinances, guidelines, and the requirements of the specification and this document. Safety of project workers, building occupants, and property users must be given priority for all activities. The Contractor shall ensure at all times that the condition of work areas and access to work areas do not contain hazards. The Contractor shall comply with all Federal, State and local laws, regulations, ordinances, and guidelines including, but not limited to, EPA, OSHA, and the State of Delaware. It is the Contractor's responsibility to ensure that all appropriate laws, regulations, ordinances, and guidelines are implemented at all times during the work. Prior and during removal of window glazing, the Contractor shall deploy and maintain a suitable drop cloth at ground elevation next to all work areas extending at least 15 linear feet outward to collect fallen materials during removal. Additionally, the Contractor shall deploy and maintain barrier tape and signage at the perimeter of all work areas. Barrier tape shall extend at least 15 linear feet outward and be deployed and maintained in a condition sufficient to restrict access. Signs shall state "Danger, Asbestos Containing Materials" and shall extend at least 15 linear feet outward. The Contractor shall remove all asbestos-containing materials at the window sill, header and frame to a condition whereby the final substrate is smooth and free of any asbestos-containing material. The Contractor is responsible for any or all damages caused by him. During the abatement, the Contractor shall protect all building features in and around the work area. Materials shall be adequately wetted with amended water by the Contractor during all removal work to prevent visible emissions. Dry removal of asbestos-containing materials is not allowed. Care shall be taken by the Contractor considering the right amount of water required not to create leaking conditions or hazards to the work area or surrounding area. The Building Owner shall provide limited water service for the Contractor's use during the work. The Contractor shall ensure that proper back-flow protection at all sources of water are installed and maintained. The Contractor shall place a fire extinguisher and have a first aid kit at each work area. The minimum respiratory protection shall be full-face PAPR's for all workers. Additionally, as a minimum, all workers shall don double personal protective suits. Respiratory protection and personal protective equipment

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shall be worn by all workers during all steps of the work including, but not limited to, setup, removal, placing of waste into dumpsters or containers, final cleaning and tear down. A remote three-stage decontamination unit with a shower shall be provided and used by the Contractor during the work. As a minimum, all workers shall shower at the end of each shift. The Contractor shall ensure the integrity of all decontamination facilities. All decontamination procedures shall be strictly implemented by the Contractor. Shower wastewater shall be either filtered or jelled. All filters and/or jelled water shall be disposed by the Contractor as contaminated waste. All materials shall be thoroughly wetted and double-bagged in 6-mil poly bags and goose-necked or thoroughly wetted and wrapped in double-layers of 6-mil poly for proper disposal. All waste shall be properly handled labeled and disposal by the Contractor. All asbestos-containing and contaminated materials shall be properly handled, labeled, stored, transported and disposed by the Contractor in accordance with all Federal, State, and local laws, regulations, ordinances, guidelines, and the requirements of this Specification. Final inspection shall consist of a visual inspection. No final air clearance samples will be required in work areas. See Section 01013, 02081 and other sections of this specification for more information.

**(iii). Caulks and Expansion Joints:**

Windows and doors contain multiple layers of caulk. Expansion joint materials are also multiple layers. The Contractor shall completely remove all layers of material to access and abate asbestos-containing materials which is the first (lowest) layer. Remove all identified and assumed asbestos-containing materials. The finished surface shall be smooth and free from asbestos-containing materials. The Contractor shall use proper means, methods and work practices to prevent asbestos fibers, fragments and contaminated dusts from falling past designated work areas. Asbestos-containing materials shall be removed from building materials to the best extent possible. The Contractor is responsible for proper handling, labeling, storage, transporting and disposal of all wastes in accordance with all Federal, State, and local laws, regulations, ordinances, guidelines, and the requirements of the specification and this document. Safety of project workers, building occupants, and property users must be given priority for all activities. The Contractor shall ensure at all times that the condition of work areas and access to work areas do not contain hazards. The Contractor shall comply with all Federal, State and local laws, regulations, ordinances, and guidelines including, but not limited to, EPA, OSHA, and the State of Delaware. It is the Contractor's responsibility to ensure that all appropriate laws, regulations, ordinances, and guidelines are implemented at all times during the work. Prior and during removal of window glazing, the Contractor shall deploy and maintain a suitable drop cloth at ground elevation next to all work areas extending at least 15 linear feet outward to collect fallen materials during removal. Additionally, the Contractor shall deploy and maintain barrier tape and signage at the perimeter of all work areas. Barrier tape shall extend at least 1 linear feet outward and be deployed and maintained in a condition sufficient to restrict access. Signs shall state "Danger, Asbestos Containing Materials" and shall extend at least 15 linear feet outward. The Contractor shall remove all asbestos-containing

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materials at the windows and doors including the frame, header and sill to a condition whereby the final substrate is smooth and free of any asbestos-containing material. The Contractor is responsible for any or all damages caused by him. During the abatement, the Contractor shall protect all building features in and around the work area. Materials shall be adequately wetted with amended water by the Contractor during all removal work to prevent visible emissions. Dry removal of asbestos-containing materials is not allowed. Care shall be taken by the Contractor considering the right amount of water required not to create leaking conditions or hazards to the work area or surrounding area. The Building Owner shall provide limited water service for the Contractor's use during the work. The Contractor shall ensure that proper back-flow protection at all sources of water are installed and maintained. The Contractor shall place a fire extinguisher and have a first aid kit at each work area. The minimum respiratory protection shall be full-face PAPR's for all workers. Additionally, as a minimum, all workers shall don double personal protective suits. Respiratory protection and personal protective equipment shall be worn by all workers during all steps of the work including, but not limited to, setup, removal, placing of waste into dumpsters or containers, final cleaning and tear down. A remote three-stage decontamination unit with a shower shall be provided and used by the Contractor during the work. As a minimum, all workers shall shower at the end of each shift. The Contractor shall ensure the integrity of all decontamination facilities. All decontamination procedures shall be strictly implemented by the Contractor. Shower wastewater shall be either filtered or jelled. All filters and/or jelled water shall be disposed by the Contractor as contaminated waste. All materials shall be thoroughly wetted and double-bagged in 6-mil poly bags and goose-necked or thoroughly wetted and wrapped in double-layers of 6-mil poly for proper disposal. All waste shall be properly handled labeled and disposal by the Contractor. All asbestos-containing and contaminated materials shall be properly handled, labeled, stored, transported and disposed by the Contractor in accordance with all Federal, State, and local laws, regulations, ordinances, guidelines, and the requirements of this Specification. Final inspection shall consist of a visual inspection. No final air clearance samples will be required in work areas. See Section 01013, 02081 and other sections of this specification for more information.

(iv). **Roofing Materials:**

Roofing materials are all materials at roof elevations including multiple layers of roofing, mastics, caulks, sealants, flashing tar, coatings, insulation, felt, tar paper, stone ballast, metal caps, roof drains and flashing. The Contractor shall completely remove all layers of the roofing materials to access and abate asbestos-containing materials and complete the removal of all materials down to the roof decking. Remove all identified and assumed asbestos-containing materials. The finished surface shall be smooth and free from asbestos-containing materials. Roof areas include mechanical equipment contain multiple layers and varying types of roof materials, mastics, flashing tar, coatings and felt. The Contractor shall use proper means, methods and work practices to prevent asbestos fragments and contaminated dusts from falling below work areas. Asbestos-containing

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materials shall be removed from building materials to the best extent possible. The Contractor is responsible for proper handling, labeling, storage, transporting and disposal of all wastes in accordance with all Federal, State, and local laws, regulations, ordinances, guidelines, and the requirements of the specification and this document. Safety of project workers, building occupants, and property users must be given priority for all activities. The Contractor shall ensure at all times that the condition of work areas and access to work areas do not contain hazards. The Contractor shall comply with all Federal, State and local laws, regulations, ordinances, and guidelines including, but not limited to, EPA, OSHA, and the State of Delaware. It is the Contractor's responsibility to ensure that all appropriate laws, regulations, ordinances, and guidelines are implemented at all times during the work. Prior and during removal of exterior roof materials, the Contractor shall deploy and maintain a suitable drop cloth at ground elevation next to all work areas extending at least 15 linear feet outward to collect fallen materials during removal. Additionally, the Contractor shall deploy and maintain barrier tape and signage at the perimeter of all work areas. Barrier tape shall extend at least 1 linear feet outward and be deployed and maintained in a condition sufficient to restrict access. Signs shall state "Caution, Overhead Work" and shall extend at least 15 linear feet outward. The Contractor shall remove all asbestos-containing roofing materials to a condition whereby the final substrate is smooth and free of any roofing material. The Contractor is responsible for any or all damages caused by him. During the abatement, the Contractor shall protect all building features in and around the work area. Materials shall be adequately wetted with amended water by the Contractor during all removal work to prevent visible emissions. Dry removal of asbestos-containing materials is not allowed. Care shall be taken by the Contractor considering the right amount of water required not to create leaking conditions or hazards to the work area or surrounding area. The Building Owner shall provide limited water service for the Contractor's use during the work. The Contractor shall ensure that proper back-flow protection at all sources of water are installed and maintained. The Contractor shall place a fire extinguisher and have a first aid kit at each work area. The minimum respiratory protection shall be full-face PAPR's for all workers. Additionally, as a minimum, all workers shall don double personal protective suits. Respiratory protection and personal protective equipment shall be worn by all workers during all steps of the work including, but not limited to, setup, removal, placing of waste into dumpsters or containers, final cleaning and tear down. A remote three-stage decontamination unit with a shower shall be provided and used by the Contractor during the work. As a minimum, all workers shall shower at the end of each shift. The Contractor shall ensure the integrity of all decontamination facilities. All decontamination procedures shall be strictly implemented by the Contractor. Shower wastewater shall be either filtered or jelled. All filters and/or jelled water shall be disposed by the Contractor as contaminated waste. All roofing materials shall be thoroughly wetted and double-bagged in 6-mil poly bags and goose-necked or thoroughly wetted and wrapped in double-layers of 6-mil poly for proper disposal. All waste shall be properly handled labeled and disposal by the Contractor. All asbestos-containing and contaminated materials shall be properly handled, labeled,

stored, transported and disposed by the Contractor in accordance with all Federal, State, and local laws, regulations, ordinances, guidelines, and the requirements of this Specification. Final inspection shall consist of a visual inspection. No final air clearance samples will be required in work areas. See Section 01013, 02081 and other sections of this specification for more information.

(v). **Pipe Coverings (Insulation & Fittings):**

Pipe coverings include insulation, fittings and mud. All asbestos-containing pipe coverings shall be removed, bagged, transported and disposed by the Contractor. **Prior to removal, the Contractor shall verify that all utilities have been shut-off and purged.** Install containments, negative air controls and decontamination units as specified. Once negative air is established, the Contractor may start removing the pipe coverings. The Contractor shall use gross removal methods, glove bags or wrap and cut methods for complete removal of all pipe coverings. For removal or should the fiber counts reach the Permissible Exposure Limit (PEL) at any time, Type C, Grade D respirators operating in the pressure demand mode will be required. Install and operate HEPA filtered air filtration devices. Pre-clean any areas needing critical barriers, and install critical barriers. The work area shall consist of two (2) layers of 6-mil plastic sheeting as critical barriers and one (1) layer of 6-mil plastic sheeting on ceilings and walls, and two (2) layers of 6-mil plastic sheeting on the floor. Layers shall be applied separately by the Contractor with varying tape lines. The Contractor shall completely remove the pipe coverings in a manner which prevents damage to building materials and components. All waste shall be handled, labeled and disposed as specified. Final inspection shall consist of a visual inspection and air sampling. All daily air sampling will be laboratory analyzed by Phase Contrast Microscopy (PCM) methods unless the Owner or State Agency requires other methods. Final air clearance samples will be by PCM for demolition areas. Work areas less than asbestos NESHAP quantities will have final air clearance samples analyzed by PCM. See Sections 01013, 01529, 02081, 02087 and other specification sections for more information.

(vi). **Break-In Locations:**

Break-in points require opening up floors, walls, and ceilings at each location. Plumbing pipe insulation, fittings, asbestos heat shields and other asbestos-containing materials may be located inside floors, walls and ceilings. Wall, ceiling and floor substrates vary throughout building. Each location shown on the drawings may require multiple break in points and may contain multiple asbestos-containing materials. Prior to any break-in, the Contractor shall construct a mini-containment and be prepared to abatement any asbestos-containing materials found at each location. If asbestos-containing materials are found, the Contractor shall immediately abate the material. See other sections of this specification for specific abatement requirements for the asbestos-containing material found within the break-in. The Contractor shall include in its bid the cost of this work for the number of break-in locations and assumed asbestos-containing materia quantities located on the tables within this specification.

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(vii). **Valves and Gaskets:**

Asbestos-containing piping valve, fitting and equipment gaskets shall be removed, bagged, and properly disposed by the Contractor. **Prior to removal, the Contractor shall verify that all utilities have been shut-off and purged.** Prior to disturbing asbestos-containing materials, the Contractor shall install containments, negative air controls and decontamination units as specified. The work area shall consist of two (2) layers of 6-mil plastic sheeting as critical barriers and one (1) layer of 6-mil plastic sheeting on ceilings, walls and floors. Layers shall be applied separately by the Contractor with varying tape lines. Once negative air is established, the Contractor may start removing the asbestos heat shields. All waste shall be handled, labeled and disposed as specified. Final inspection shall consist of a visual inspection and air sampling. All daily air sampling will be laboratory analyzed by Phase Contrast Microscopy (PCM) methods unless the Owner or State Agency requires other methods. Final air clearance samples will be by PCM. Work areas less than asbestos NESHAP quantities will have final air clearance samples analyzed by PCM. See Sections 01013, 01529, 02081, 02087 and other specification sections for more information.

(viii). **Boiler:**

The Contractor shall remove and dispose of all asbestos-containing materials from the boiler. **Prior to removal, the Contractor shall verify that all utilities have been shut-off and purged.** After completely disassembling the boilers, the Contractor shall leave all non-asbestos-containing materials within the work area for safe disposal as non-contaminated debris by Others. During the boiler disassembly process, the Contractor shall remove, as a minimum, all packing, gaskets, rope, insulating boards, asbestos-containing cements, asbestos baffle tiles, and asbestos-containing castable refractory. The Contractor shall also remove all asbestos-contaminated debris from the boiler room. The Contractor shall determine the proper sequence of asbestos abatement activities at the boiler. The following items shall be considered by the Contractor and are not provided in sequential order:

1. Install a three stage decontamination unit, with shower, at the entrance to the boiler room containment area. The decontamination unit will be installed in such a manner as to allow for a separate equipment room/bag-out off to the side. In no instance will the personal decontamination be used as a bag-out/equipment passage. **Only new single use pop-up decontamination units will be allowed on site and must be disposed with the waste from this project. A pop-up can be used more-than once on a single project at the discretion of the Project Monitor.** Install and run HEPA filtered negative air machines throughout containment preparation. Pre-clean any areas needing critical barriers. Install critical barriers and seal all penetrations with two (2) layers of 6-mil polyethylene.

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2. The work area containment shall consist of two layers of critical barriers and two layers of fire retardant 6-mil poly on the walls and floors, and one layer of poly on the ceiling. The contractor will ensure all floor drains are sealed.
3. Establish and maintain a pressure differential of -0.02 inches of water measured on a strip chart recorder or other approved method. The pressure differential recording device will be checked several times daily by the Owner's Representative. The Contractor shall supply a differential pressure manometer that is capable of monitoring and recording on a strip chart, differential pressure of 0.005 inches of water. The manometer shall be equipped with an automatically activated alarm system, which will sound a warning if the pressure drops below the preset value. All strip charts will be turned in to the Owner's Representative at the completion of the project. Work will not begin or continue until an adequate differential pressure is achieved and maintained. Windows used to exhaust the negative air will be protected with plywood if the windows are located at ground level or below. The pressure differential recorder shall be checked several times daily by the Contractor. HEPA filtered local exhaust systems will be used to establish air flow through the contained work areas and maintained until final analytical clearance has been determined. The systems will be vented to the exterior of the buildings through the use of non-collapsible venting attachments.
4. All electric power shall be shut down in the work area that is possible. Provide temporary power to the work area in accordance with section 01503. Temporary electrical utilities will be supplied by the Owner.
5. All water sources for this project shall be supplied by the Building Owner. The Contractor shall ensure proper back-flow protection at hook-ups from source(s) of water. Hot water heater will be supplied by the Contractor (see Section 01513).
6. Contractor must ensure the integrity of the enclosures and decontamination facilities. Inspection windows are required for each enclosure (see Section 01526).
7. All asbestos-containing material shall be wetted with amended water during abatement. Dry removal of asbestos will not be allowed.
8. All workers must have their current State of Delaware Asbestos Worker Badge as well as a copy of their current medical information in order to work at the project site (this includes set up and tear down, no exceptions).

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9. The Contractor shall place a fire extinguisher and have a first aid kit at each containment. An additional fire extinguisher shall be provided by the Contractor where containments exceed 1,000 square feet.
  10. Contractor will provide extra, new respirators, disposable overalls, head covers, and footwear covers for use by authorized visitors. All decontamination procedures are to be strictly adhered to. A signed copy of the Workers Acknowledgment must be obtained from each worker (see Section 01560).
  11. Three stage decontamination units are required for each work area except for those areas approved for "glove-bag" work. An equipment decontamination unit consisting of the following arrangement of rooms, Clean Room, Holding Room, Wash Room for the removal of equipment and material from the Work Area, is required. Personnel are not to enter or exit the Work Area through the Equipment Decontamination Unit (see Section 01563). Shower water will be either filtered or jelled. All filters and/or jelled water will be disposed of as contaminated waste.
  12. Remove all interior and exterior insulations, if applicable. Follow proper gross removal procedures. Once all removal is complete, fine clean the area prior to encapsulation and final clearances.
  13. PAPRs may be used for set up, removal, final cleaning and tear down. If any friable materials are discovered during boiler demolition, the Contractor shall upgrade to Type C, Grade D respirators operated in pressure demand mode at no additional charge to the Owner. Type C will also be required if the fiber counts reach the Permissible Exposure Limit (PEL) at any time.
  14. Final inspection shall consist of a visual inspection and air sampling. Daily air samples will be by Phase Contrast Microscopy (PCM). Final air clearance samples will be by TEM.
  15. The Contractor shall be responsible for the proper disposal of all asbestos and non-asbestos boiler materials associated with the abatement project. All asbestos-containing materials shall be properly disposed by the Contractor as contaminated waste in accordance with all Federal, State, and local laws, regulations, ordinances, guidelines, and the requirements of this Specification.
- 23. Abatement Activities:** All abatement of asbestos containing materials shall be performed in a proper wetted condition using amended water. Dry removal of asbestos containing materials is not permitted. See Section 01527 and 02081 for more information. The Contractor shall take the necessary precautions to protect all computer, fiber optic and electronic equipment including building sensors from damage during the Contractor's activities and also including, but not limited to, walls, ceilings, floors outside work areas, doors, thresholds, and fixed objects within work

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area(s). Any damaged painted surfaces shall be repaired at the Contractor's expense. The Owner has a zero tolerance for drugs, alcohol, tobacco products and weapons. The use or possession of drugs, tobacco products, weapons, firearms, dangerous devices, or destructive devices are prohibited and will not be tolerated at buildings or properties. Additionally, the use of vulgar language will not be tolerated on school grounds.

24. **Decontamination Units:** Three (3) stage decontamination stations (units) will be erected, operated, maintained, and removed by the Contractor. The decontamination stations will be erected in such a manner to allow for a secured entrance during non-working hours. At no time will workers move around outside of the work area without clothing. At no time will equipment be moved out of containment decontamination. The equipment/bag-out room must be used for equipment movements. **Only new single use pop-up decontamination units will be allowed on site and must be disposed with the waste from this project. A pop-up can be used more-than once on a single project at the discretion of the Project Monitor.** See Section 01563 for more information.
25. **Bag-Out:** Bag-out activities shall be performed by the Contractor prior to the end of the work day. All waste must be removed from work areas prior to the end of the work day. At no time will the workers be allowed to move around outside of the building in abatement coveralls with exception to bag-out activities, which will occur during approved hours each day. All bags shall be leak-proof and have a “goose-neck” seal and labeling. See Section 01527 for more information.
26. **Air Sampling:** All daily air sampling will be laboratory analyzed by Phase Contrast Microscopy (PCM) methods unless the Owner or State Agency requires other methods. Final air clearance samples will be by visual inspection and PCM or Transmission Electron Microscopy (TEM) methods. See Section 02081 and this specification for more information.
27. **Aggressive Air Sampling:** The Contractor shall provide, at no additional cost to the Owner, the leaf blower(s) and fan(s) required by the Owner’s Representative to perform proper aggressive air sampling.
28. **Lock-Down:** All non-visible asbestos residue shall be encapsulated with a coating of penetrating encapsulant applied in strict accordance with the manufacturer’s directions. The Contractor shall schedule the application of lock-down with the Owner’s Representative prior to application. At no time will air samples be collected until after all lock-down is dry in the work area. See Section 01527 for more information.
29. **Use of Drawings:** All drawings provided in the Specification are diagrammatic, not to proportion and are not to scale. Drawings are provided to the Contractor for reference purposes. The Contractor shall develop and verify the actual quantities and locations required for all of the work and consider these actual quantities when preparing its bid.
30. **Work Areas adjacent to Occupied Areas (if applicable):** When asbestos abatement work areas are adjacent to occupied areas, the Contractor shall install and

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maintain wooden partitions which extend from floor to ceiling with lockable access doors to prevent occupants from entering into work areas.

31. **Scaffolding, Lifts and Ladders:** If scaffolding is used, the Contractor must erect, use, and disassemble the scaffolding in accordance with OSHA Standards. Additionally, all lifts and ladders shall meet and be used in accordance with OSHA Standards. The Contractor shall insure that floors and all other building components are protected during the use of scaffolding, lifts and ladders. The Contractor shall use only trained personnel when using scaffolding, lifts and ladders.
32. **Exhaust from Negative Air Machines:** Windows, doors or other building openings used to exhaust negative air shall be protected by the Contractor by installing plywood and bracing if the opening is located on the first floor or below. The plywood and bracing shall be installed in a manner by the Contractor that prevents damage to the building components and prevents unauthorized access into the building.
33. **Permanent Objects in the Work Area:** Where permanently mounted objects are present in the work area, that Contractor shall protect these objects from contamination and damage from their activities.
34. **Electric Power:** The Owner will provide 120-volt electrical power on the project. Any additional electrical power needs must be provided by the Contractor.
35. **Water Service:** The Owner will provide a 3/4-inch hose bib water connection on the project. Any additional water needs must be provided by the Contractor.
36. **Visitor Personal Protective Equipment:** The Contractor shall provide, at no additional cost to the Owner and their representatives, respirators, disposable coveralls, head covers, and foot covers all at new condition.
37. **Contractor Project Staffing:** A minimum of three (3) asbestos personnel are required to be present at the project site at all times. The Contractor's on-site supervisor must be able to make timely decisions for this company and must be on-site at all times. **Prior to any site activity, the Contractor shall submit the name and address of each supervisor, worker and any other person he intends to use at the project site for informational screening (e.g. registered sex offenders list and other lists) by the Owner. The Contractor shall be notified by the Owner if their personnel will be allowed to work at the project site based upon the results of the screening. The School District reserves the right to reject any proposed Contractor personnel for this project.** (Section 01043)
38. **Personnel Clothing Requirement:** At no time will the Contractor's employees expose bare skin or remove any articles of clothing in clear sight of building occupants or users inside or outside of the building and on the property except at work area designated hygiene shower out locations.
39. **Project Supervisor:** During all asbestos abatement work, a State of Delaware licensed Supervisor, employed by the Contractor, shall be on site at all times. The licensed Supervisor shall maintain all daily records as required.

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40. **Project Monitor Must Be On-Site:** The Contractor shall not begin or continue work for any asbestos abatement related activities until a certified Project Monitor is resident on site. The Project Monitor must be on site at all times during asbestos abatement related activities. The Contractor shall provide adequate notice to the Professional Service Firm providing the Project Monitor. Adequate notice is the period of time agreed to by the Contractor and Professional Service Firm.
41. **Damage Repair:** The Contractor shall repair or replace, at his own expense, any damage occurring from his activities for items the Owner desires to save prior to demolition or any building component. Any damaged items will be replaced or paid for by the Contractor prior to receipt of final contract payment.
42. **Stop Work:** If the Owner, or the Owner's Representative presents a written stop work order to the Contractor, the Contractor shall immediately stop all work in a fashion not to create an asbestos exposure hazard to workers, building occupants, or others. See this Section for more information.
43. **Building and Property Usage:** The contractor shall not unreasonably encumber the site with materials or equipment and may be required to share the project site with others. Stockpile of materials at locations after approved by the Owner's Representative. If additional off-site storage is needed by the Contractor, the off-site storage will be provided by the Contractor at no additional cost to the Owner. Smoking or open fires will not be permitted within the building. Alcoholic beverages and non-prescription drugs use is prohibited within buildings or on the property. No permanent modifications shall be made to any building component, sidewalk, parking area, signage, or any other appurtenances without expressed written permission from the Owner. See this Section for more information.
44. **Waste Disposal:** All asbestos-containing materials and contaminated asbestos-containing materials shall be properly handled, stored and disposed by the Contractor the licensed and permitted landfill the Contractor provided on the bid form for the project. Any waste disposal facility proposal by the Contractor is subjected to approval by the Owner. **No abatement is to occur or continue until the arrival and preparation of a suitable closed top dumpster or a Delaware Solid Waste Approved Transport Vehicle. The dumpster and/or transport vehicle must be transported directly to the approved landfill facility. If the waste from this project is to be mixed with other projects, this must be done at a properly licensed Delaware transfer facility.** All non-asbestos-containing or non-asbestos-contaminated wastes shall be properly and safely stored by the Contractor inside of the building. Waste shall be stored in a manner which does not block ingress or egress of the building, rooms, closets, doors or windows and does not pose a fire or safety concern as determined by the Owner or the Owner's Representative. The Contractor shall provide all waste disposal documentation to the Owner's Representative. See Sections 01013 and 02084 of the specification for more information.
45. **Filler:** The term "filler" means cementitious materials used at concrete floors. This includes, but not limited to, leveling materials, mortars and patching materials that are in contact with concrete. Filler varies in hardness and thickness from location to location and may be random or completely under

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larger areas of building materials. The material may contain various admixtures that contribute to its physical properties. If a filler was found to contain asbestos-containing materials, it will be identified in the list of materials to be abated.

- E. Single Prime Contract:** The Work will be constructed under a single prime contract. The Contractor shall not sublet this contract without expressed written permission from the Owner.
- F. Pre-abatement assessment:** A comprehensive pre-abatement assessment will be completed by the Contractor, Owner's Representative, and any other individual authorized by the Owner. An agreed list of damage to structures, surfaces, equipment shall be developed and agreed upon prior to the commencement of work by the Contractor.
- G. Contaminated Areas:** Any areas found to be contaminated in the opinion of the Owner's Representative or Owner after the removal of asbestos containing material shall be decontaminated using a combination of HEPA vacuum and wet cleaning techniques by the Contractor at no additional expense to the Owner.
- H. Plan of Action:** The Contractor shall submit a detailed plan of action which details proposed procedures used for complying with all of the requirements of this specification. Included in the plan shall be the location and layout of decontamination areas, the sequence of asbestos work, the interface of all trades, methods used to ensure safety of the workers, building occupants, and visitors to the site, and a detailed description of methods that will be used to control pollution.
- I. Potential Asbestos Hazard:** The disturbance of asbestos-containing materials may cause asbestos fibers to be released into the building and/or exterior atmosphere thereby creating a potential health hazard to workers, building occupants, and others. The Contractor shall inform all workers, supervisors, subcontractors, and Owner's Representatives who will be at the project site of the seriousness of the hazard and of proper work procedures which must be followed. The Contractor shall, continuously and at all times, take the measures necessary including, but not limited to, procedures, work practices, and methods, to ensure complete compliance with federal, state, and local regulations and eliminate the potential for asbestos exposure.
- J. Site Safety:** The Contractor shall at all times comply with all applicable federal, state and local, laws and regulations, including environmental, health and safety laws and regulations, pertaining to its services. The Contractor represents it is familiar with all aspects of the job site (including but not limited to site conditions and site access limitations) and hazards associated with asbestos removal and abatement. The Contractor shall be solely responsible for the safety of its personnel, subcontractors or any third party in its work areas or common areas and Contractor hereby releases and indemnifies Client and Owner's Representative from any and all claims brought by, or on behalf of itself, its employees or its subcontractors arising out of or in connection with its Contractor's services or presence at the job site. Prior to the start of daily work, and at the conclusion of each day, the Contractor shall visually inspect his work areas and all areas required to access his work areas. Any unsafe conditions found during any inspection shall be reported to the Owner's Representative immediately in writing subsequent to each inspection. The report provided by the Contractor to the Owner's Representative shall adequately describe the unsafe condition and the procedures the Contractor has immediately taken to correct the unsafe condition. The Contractor shall

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promptly report any and all accidents to the Owner's Representative in writing, and shall include sufficient details regarding the accident and procedures implemented by the Contractor to prevent similar accidents. The Contractor shall be responsible for reporting accidents to the appropriate regulating agency as may be required by applicable law or regulation.

**K. Specification Sections:** The work includes the removal of asbestos-containing materials according to the requirements provided in the following specification sections:

1. General and Administrative Requirements:
  - 01013: Summary of the Work–Asbestos Abatement
  - 01043: Project Coordination–Asbestos Abatement
  - 01097: Reference Standards and Definitions–Asbestos Abatement
  - 01098: Codes, Regulations and Standards–Asbestos Abatement
  - 01301: Submittals–Asbestos Abatement
  - 01601: Materials and Equipment–Asbestos Abatement
  - 01632: Product Substitutions–Asbestos Abatement
  - 01701: Contract Closeout–Asbestos Abatement
  
2. Abatement Work:
  - 01503: Construction Facilities and Temporary Controls–Asbestos Abatement
  - 01513: Temporary Pressure Differential & Air Circulation System
  - 01526: Temporary Enclosures
  - 01527: Regulated Areas
  - 01560: Worker Protection–Asbestos Abatement
  - 01562: Respiratory Protection
  - 01563: Decontamination Units
  
3. Asbestos Removal Work Procedures:
  - 02063: Removal of Asbestos Contaminated Materials
  - 02081: Removal of Asbestos-Containing Materials
  - 02084: Disposal of Regulated Asbestos Containing Material
  - 02085: Resilient Flooring Removal-Resilient Floor Covering Manufacturers' Recommended Work Practices
  - 02087: Resilient Flooring Removal-Aggressive Asbestos Abatement
  
4. Decontamination of Work Areas:
  - 01711: Project Decontamination
  - 01712: Cleaning and Decontamination Procedures

### 1.3 WORK SEQUENCE

**A. The Work** will be conducted in distinct phases at each abatement location.

1. Each work phase shall consist of pre-cleaning, establishing of work areas, installation of engineering controls, abatement, post abatement inspection and sampling.
2. The following inspections will be performed by the Contractor and Owner's Representative simultaneously for project activities:
  - a. Pre-Cleaning: A visual inspection of all pre-cleaned surface areas. This

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inspection will occur prior to the installation of polyethylene sheeting on walls, floors, and other surfaces. Decontamination units must be operable and critical barriers installed prior to pre-cleaning activities.

- b. Work Area: Work areas will be visually inspected each day prior to the start of work activities and upon work completion each day to insure that the integrity of the containment is in compliance with these specifications. This inspection does not relieve the Contractor of their responsibilities of performing the work in accordance with these specifications.
- c. Post Abatement: A visual inspection of each work area will be performed following successful clearance air sampling and prior to commencing containment tear-down.
- d. Substantial Completion: After completion of all applicable demolition, reinstallation, cleaning, and all other asbestos abatement activities, a final inspection will be performed after final cleaning of all work areas prior to re-occupancy of said areas by the Owner.

### 1.4 ASBESTOS-CONTAINING MATERIALS:

- A. **The Work** of this contract involves activities that will disturb asbestos-containing materials (ACM). The location and type of ACM known to be present at the worksite is set forth in the "Schedule of Asbestos-Containing Materials" at the end of this section. If any other ACM is found, notify the Owner's Representative, other employers and employees about the location and quantity of the ACM immediately upon discovery.
- B. Asbestos containing building materials are known to be present at the project site. If the Contractor finds any other material which are suspected of containing asbestos, the Contractor shall immediately notify the Owner's Representative. See the attached Table 1. for a summary of confirmed asbestos-containing materials at the site.

### 1.5 ASBESTOS HEALTH RISK:

- A. The disturbance or dislocation of ACM may cause asbestos fibers to be released into the building's atmosphere, thereby creating a potential health risk to workers and building occupants. The Contractor shall inform all workers, supervisory personnel, subcontractors and Owner's Representatives who will be at the job site of the seriousness of the risk and of proper work procedures which must and will be followed.
- B. Where in the performance of the work, workers, supervisory personnel, subcontractors, or Owner's Representatives may encounter, disturb, or otherwise function in the immediate vicinity of any identified ACM, take appropriate continuous measures as necessary to protect all building occupants from the risk of exposure to airborne asbestos. Such measures shall include the procedures and methods described herein, and compliance with regulations of applicable federal, state and local agencies.

### 1.6 CONTRACTOR USE OF PREMISES

- A. **Use of the Site:** Limit use of the premises to work in areas indicated. Confine operations to

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areas within contract limits indicated. Do not disturb portions of the site beyond the areas in which the Work is indicated.

1. **Owner Occupancy:** Allow for Owner occupancy and use by the public.
  2. **Driveways and Entrances:** Keep driveways and entrances serving the premises clear and available to the Owner, the Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
- B. Use of the Existing Building:** Maintain the existing building in a weather tight condition throughout the construction period. Repair damage caused by construction operations. Take all precautions necessary to protect the building and its occupants during the construction period.
1. **Use of Existing Elevators (if applicable):** Except for the Freight Elevator, use of elevators by the Contractor will not be permitted. The Contractor will be permitted to use the freight elevator for temporary freight service and the transportation of construction personnel during the construction period. This elevator must also be available to the Owner at all times; coordinate freight elevator usage with the Owner or Owner's Representative. Provide protective pads for the elevator car and other appropriate protective measures for the car and entrance doors and frames. During asbestos abatement activities the car is to be protected as set forth in the Division 1 Section on Temporary Enclosures.
  2. **Smoking:** Smoking or open fires will not be permitted within the building enclosure or on the premises.
  3. **Toilet Rooms (if applicable):** Except for toilet rooms designated for use by the Contractor's personnel, use of existing toilets within the building, by the Contractor's personnel, will not be permitted.

### 1.7 OCCUPANCY REQUIREMENTS

- A. Partial Owner Occupancy:** The Owner reserves the right to occupy and to place and install equipment in completed areas of the building prior to Substantial Completion, provided such occupancy does not interfere with completion of the Work. Such placing of equipment and partial occupancy shall not constitute acceptance of the total Work.
1. The Owner or Owner's Representative will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied prior to Owner occupancy.

### 1.8 AIR MONITORING BY THE OWNER

- A. The Owner has contracted for air monitoring.** Air monitoring may be conducted both outside and inside of the work area during the work, and for clearance sampling at the end of the project

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- 1. **Outside of the Work Area:** The Owner's air monitoring firm may sample air outside of the work area to detect faults in the work area isolation such as:
  - a. Contamination of the building outside of the work area with airborne asbestos fibers,
  - b. Failure of filtration or rupture in the differential pressure system,
  - c. Contamination of air outside the building envelop with airborne asbestos fibers.
- 2. **Inside the Work Area:** The Owner's air monitoring firm may monitor airborne fiber counts in the Work Area. The purpose of this air monitoring is to detect airborne asbestos concentrations which may challenge the ability of the Work Area isolation procedures to protect the balance of the building or outside of the building from contamination by airborne fibers.

**B. Work area clearance:** Clearance air sampling by the Owner's air monitor at the completion of asbestos abatement work is described in Section 01711 Project Decontamination.

**C. Air monitoring** required by OSHA is work of the Contractor and is not covered in this section

**1.9 SCHEDULE OF AIR SAMPLES BY OWNER**

**A. Sample cassettes:** Samples will be collected on 25 mm. cassettes as follows:

- 1. **PCM:** 0.8 micrometer mixed cellulose ester.
- 2. **TEM (if required):** 0.45 micrometer mixed cellulose ester or 0.40 micrometer polycarbonate, with 5.0 micron mixed cellulose ester backing filter.

**B. Number and Volume of Samples:** The number and volume of air samples given in the schedules is approximate. The exact number and volume of samples collected by the Owner may vary depending upon job conditions and the analytical method used.

**C. Sample Volume and Sensitivity:**

- 1. **PCM:** The sample volumes collected by the Owner's air monitor will be determined by the following formula:

$$\text{Volume} = \frac{\left( \frac{\text{Number of Fibers}}{\text{Area of 100 fields}} \right) \times \text{Total Filter Area}}{\left( \frac{\text{Limit Value}}{4} \right)}$$

Where:

Number of fibers = 5 fibers/100 fields, based on a limit of detection (LOD) of 7 fibers/mm<sup>2</sup> on the filter  
Area of 100 fields = 0.785mm<sup>2</sup>

**COMPLIANCE ENVIRONMENTAL, INC.**

Total Filter Area = 385mm<sup>2</sup>  
 Limit Value = as specified in the schedules of samples below.

- a. For purposes of this specification, the sample volume calculated above will be considered to be of sufficient size so that there is a 95% level of confidence that the value measured by each individual sample at the limit of detection (LOD) is less than or equal to the limit values specified below.
- b. For purposes of this specification, the Limit of Detection (LOD) is defined as 7 fibers/mm<sup>2</sup> on the filter or 5 fibers/100 fields.
- c. For purposes of this specification overloaded samples will be considered as exceeding the applicable limit value.

2. **TEM:** Analytical Sensitivity of 0.05 structures/cc as set forth in the AHERA regulation.

**D. Baseline:**

1. **Before Start of Work:** The Owner will secure air samples to establish a baseline.

2. **PCM Samples**

Location	Number	Limit	Approx.
Sampled	of	Value	Rate
	Samples	(Fibers/cc)	Volume (Liters/ Minute)
Each Work Area	5	0.01	1,000
Outside Each Work Area	5	0.01	1,000
Outside Building	5	0.01	1,000

**COMPLIANCE ENVIRONMENTAL, INC.**

**3. TEM Samples:**

Location Sampled	Number of Samples	Analytical Sensitivity (Struct./cc.)	Approx. Rate Volume (Liters/Minute)
Each Work Area	1	0.005	1,300 1-10
Outside Each Work Area	1	0.005	1,300 1-10
Outside Building	1	0.005	1,300 1-10

**4. Baseline:** a level expressed in fibers per cubic centimeter which is twenty-five percent greater than the largest of the following:

- a. Average of the PCM samples collected outside each Work Area.
- b. Average of the PCM samples collected outside the building.
- c. 0.01 fibers per cubic centimeter.

**5. Samples collected for TEM analysis** will be held without analysis. These samples will be analyzed under the conditions and terms set forth in "Fibers Counted" and "Affect On Contract Sum".

**E. Daily:**

- 1. From start of work** of Section 01526 Temporary Enclosures through the work of Section 01711 Project Decontamination, the Owner may take samples.
- 2. Sample volume and sensitivity:** inside the work area may vary depending upon conditions in the work area. If samples are overloaded at the sample volume required for a limit value equal to the "Stop Action Levels" or "Immediate Stop Action Levels" given later in this section, the level is considered to have been exceeded.

**COMPLIANCE ENVIRONMENTAL, INC.**

**3. PCM Samples:**

Location Sampled		Number of Samples	Limit Value (Fibers/cc)	Approx. Rate Volume (LPM)
Each Work Area	2	0.01	1,000	1-10
Outside Each Work Area at Critical Barrier	1	0.01	1,000	1-10
Clean Room	1	0.01	1,000	1-10
Equipment Decon	1	0.01	1,000	1-10
Outside Building	1	0.01	1,000	1-10
Output of Pressure Differential System	1	0.01	1,000	1-10

- F.** **Additional samples** may be taken at Owner or Owner's Representative's discretion. If airborne fiber counts exceed allowed limits additional samples may be taken as necessary to monitor fiber levels.

**1.10 ANALYTICAL METHODS USED BY THE OWNER**

- A.** The following methods will be used by The Owner in analyzing filters used to collect air samples. Sampling rates may be varied from printed standards to allow for high volume sampling.
- 1.** Phase Contrast Microscopy (PCM) will be performed using the NIOSH 7400 method.
  - 2.** Transmission Electron Microscopy (TEM) will be performed using the analysis method set forth in the AHERA regulation 40 CFR Part 763 Appendix A.

## COMPLIANCE ENVIRONMENTAL, INC.

### 1.11 LABORATORY TESTING BY OWNER

- A. **The services of a testing laboratory** may be employed by the Owner or Owner's Representative to perform laboratory analyses of the air samples. Samples available for analysis will be sent daily by 5:00 pm from Dover via a carrier for next day delivery to the laboratory, so that verbal reports on air samples can be obtained within 24 hours after receipt by the laboratory.
- B. **A complete record** of all air monitoring and results will be furnished to the Owner's Representative, the Owner, and the Contractor.
- C. **The Contractor will have access** to all air monitoring tests and results upon request.
- D. **Written Reports** of all air monitoring tests will be posted at the job site on a daily basis.
- E. **Additional laboratory samples and professional services time required for re-sampling** of areas for clearance due to failed samples because of the Contractor's activities will be paid for by the Contractor.

### 1.12 FIBERS AND STRUCTURES

- A. **Fibers Counted:** The following procedure will be used to resolve any disputes regarding fiber types when a project has been stopped due to excessive airborne fiber counts.
  - 1. **Large Fibers:** "Airborne Fibers" referred to above include all fibers regardless of composition as counted by phase contrast microscopy (PCM), unless additional analysis by transmission or scanning electron microscopy demonstrates to the satisfaction of the Owner or Owner's Representative that non-asbestos fibers are being counted. "Airborne Fibers" counted in samples analyzed by transmission electron microscopy shall be asbestos fibers, greater than 5 microns in length. For purposes of stop action levels, subsequent to analysis by electron microscopy, the number of "Airborne Fibers" shall be determined by multiplying the number of fibers, regardless of composition, counted by PCM by the proportion of fibers that are asbestos as determined by TEM (a number equal to, asbestos fibers counted, divided by all fibers counted in the electron microscopy analysis).
  - 2. **Small Structures:** "Airborne Fibers" referred to above include asbestos structures (fibers, bundles, clusters or matrices) of any diameter and any length greater than 0.5 microns.

### 1.13 ADDITIONAL TESTING

- A. **The Contractor may conduct** air monitoring and laboratory testing. If he elects to do this the cost of such air monitoring and laboratory testing shall be at no additional cost to the Owner. A NIOSH-582 certified microscopist will be on-site during the afternoon hours to provide analysis of available PCM samples by NIOSH Method 7400. Verbal report on air samples will be provided that day.

## COMPLIANCE ENVIRONMENTAL, INC.

### 1.14 PERSONAL MONITORING

- A. **Owner will not perform** air monitoring for the Contractor to meet Contractor's OSHA requirements for personal sampling or any other purpose.

### PART 2 - PRODUCTS (Not Applicable)

### PART 3 - EXECUTION

#### 3.1 SITE WORKERS

- A. All workers and supervisors shall be currently certified by the State of Delaware and have their State of Delaware issue badge with them at all times while at the project site.
- B. All workers and supervisors shall have a copy of their current medical and respirator fit test documentation at all times while at the project site.
- C. The Contractor shall provide, at all times during any site activities, at least three (3) site workers which includes at least one (1) certified Supervisor and two (2) certified workers. The certified Supervisor shall remain on the outside of the work area as required.
- D. Prior to the start of work, the Contractor shall submit the level of respiratory protection intended for each operation of the project on the Initial Exposure Assessment form (See Section 01562).
- E. A signed copy of the Certificate of Workers Acknowledgement must be obtained from each site worker including supervisors prior to the start of work. (See Section 01530).

#### 3.2 MINIMUM PERSONAL PROTECTION EQUIPMENT

- A. **All site workers engaged in asbestos abatement activities shall use, at all times and as a minimum, full face Powered Air Purifying Respirators (PAPR) respiratory protection equipment.** The Contractor shall perform the required OSHA worker and supervisor personal monitoring and personal air sampling. The Owner's Representative will not be performing personal monitoring and personal air sampling for this project.

#### 3.3 STOP ACTION LEVELS

- A. **Inside Work Area:** Maintain an average airborne count in the work area of less than the Stop Action Level given below for the type of respiratory protection in use. If the fiber counts rise above this figure for any sample taken, revise work procedures to lower fiber counts. If the Time Weighted Average (TWA) fiber count for any work shift or 8 hour period exceeds the Stop Action Level, stop all work except corrective action, leave pressure differential and air circulation system in operation and notify the Owner or Owner's Representative. After correcting cause of high fiber levels, do not recommence work for 24 hours unless otherwise authorized, in writing, by the Owner or Owner's Representative.

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**Table 1. Action Level and Stop Action Fiber Concentrations.**

<b>ACTION LEVEL (Max Exposure) (f/cc)</b>	<b>STOP LEVEL (f/cc)</b>	<b>RESPIRATOR</b>	<b>RESPIRATOR ASSIGNED PROTECTION FACTOR</b>
1	0.5	Half Face	10
100	50	PAPR	1000
100	50	Supplied Air, Pressure Demand	1000

1. If airborne fiber counts inside contained work areas exceed the stop level for any period of time cease all work except corrective action until fiber counts fall below the stop level and notify Owner’s Representative. After correcting cause of high fiber levels, do not recommence work for 24 hours unless otherwise authorized, in writing, by the Owner or Owner’s Representative.
2. The Contractor shall stop work immediately if any visual emissions are observed.

**B. Outside Work Area:** If any air sample taken outside of the Work Area exceeds the baseline established in Part 1 of this section, immediately and automatically stop all work except corrective action. The Owner or Owner’s Representative will determine the source of the high reading and so notify the Contractor in writing.

1. If the high reading was the result of a failure of Work Area isolation measures initiate the following actions:
  - a. Immediately erect new critical barriers as set forth in Section 01526 Temporary Enclosures to isolate the affected area from the balance of the building. Erect Critical Barriers at the next existing structural isolation of the involved space (e.g. wall, ceiling, floor).
  - b. Decontaminate the affected area in accordance with Section 01712 Cleaning & Decontamination Procedures.
  - c. Require that respiratory protection as set forth in Section 01562 Respiratory Protection be worn in affected area until area is cleared for re-occupancy in accordance with Section 01711 Project Decontamination.
  - d. Leave Critical Barriers in place until completion of work and insure that the operation of the pressure differential system in the Work Area results in a flow of air from the balance of the building into the affected area.
  - e. If the exit from the clean room of the personnel decontamination unit enters the affected area, establish a decontamination facility consisting of a Shower Room and Changing Room as set forth in Section 01563 Decontamination Units at entry point to affected area.
  - f. After Certification of Visual Inspection in the Work Area remove critical barriers separating the work area from the affected area. Final air samples will be taken within the entire area as set forth in Section 01711 Project Decontamination.

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2. If the high reading was the result of other causes initiate corrective action as determined by the Owner or Owner's Representative.
  3. The Contractor shall stop work immediately if any visual emissions are observed.
- C. **Effect on Contract Sum:** Complete corrective work with no change in the Contract Sum if high airborne fiber counts were caused by Contractor's activities. The Contract Sum and schedule will be adjusted for additional work caused by high airborne fiber counts beyond the Contractor's control.

### 3.4 STOP WORK

- A. **If the Owner, Owner or Owner's Representative, or Project Administrator** presents a written stop work order, immediately and automatically conform to that stop work order, while maintaining temporary enclosures and pressure differential. Do not recommence abatement work until authorized in writing by Owner, Owner, or Owner's Representative or Project Administrator.
- B. **Immediately initiate the following actions:** After being presented with a stop work order immediately:
1. Cease all asbestos removal activities, or any other activities that disturbs ACM.
  2. Repair any fallen, ripped or otherwise failed work area isolation measures.
  3. Maintain in operation all work area isolation measures including those required by Sections 01526 "Temporary Enclosures," 01513 "Temporary Pressure Differential & Air Circulation System," 01563 "Decontamination Units."
  4. Maintain all worker protections including those required by Sections 01560 "Worker Protection - Asbestos Abatement," and 01562 "Respiratory Protection."
  5. Fog the air in the work area with a mist of amended water to reduce airborne fiber levels.
- C. **Do not recommence work** until authorized in writing by the Owner or Owner's Representative.

### 3.5 SCHEDULE OF ASBESTOS-CONTAINING MATERIALS

See the project drawings and Tables 1 and 2 for approximate quantities and locations for asbestos-containing materials on the project. All quantities were estimated. The Contractor shall field verify said quantities without delay and immediately inform the Owner's Representative of any discrepancies.

### 3.6 CLEARANCE TESTING CRITERIA

After asbestos activities have been completed in each work area in the opinion of the Contractor and when the Contractor desires clearance testing, the Contractor shall inform the Owner's Representative to proceed with clearance testing of the work area. The Contractor shall not remove any critical barriers, enclosures, drop cloths, negative air controls, or any other specified controls or materials until the Contractor has pass all clearance testing.

## COMPLIANCE ENVIRONMENTAL, INC.

The first step in the clearance testing shall include a complete visual inspection of every work area. The second step in the clearance testing will include air sampling (if required). Air sampling will not be performed in work areas which fail the visual inspection.

The visual inspection will include the following:

1. Ensure that **all** surfaces that were in contact with asbestos-containing materials are visually inspected.
2. Start from upper surfaces and work down.
3. Touch as surfaces to assist in determining if there is residual contamination.
4. For horizontal surfaces like floors, use a flash light placed on the surface to see rises in the floor elevation. Check all wall and floor junctures and corners. Check that no debris is under moldings, HVAC units and other wall and floor penetrations. For mastic removal, use a putty knife to scrap the floor surface. If residue remains, further cleaning is required.
5. For vertical surfaces, use a ladder when necessary to view all of the surface. Check for debris on floor and fallen debris within wall cavities.
6. For pipe insulation, inspect the full length of pipe runs and check all pipe hangers by physically moving them to determine if they contain debris. Examine all penetrations through ceilings, floors and walls. Check for debris at the bottom of all pipe runs. Bank on pipes to see if dust is released.

Air sampling (when applicable) will be performed in the work area after the area passes the visual inspection. In negative air enclosed areas, for each 1,000 square-feet of space, the air within the enclosed area must be agitated with a one horsepower electric leaf blower for at least five minutes. Agitate the air on all horizontal and vertical surfaces. During use of the leaf blower, a one stationary fan for each 10,000 cubic-feet of enclosure volume must be used. Please the fan on the floor and angle the fan toward the ceiling.

Air sampling pumps shall be calibrated with a DryCal primary flow meter prior to use. A secondary calibration source (manometer) shall be used to check the calibration of the sampling pumps at the beginning and ending of each sampling run. TEM or PCM cassettes as indicated in this specification shall be used at each sampling point.

**END OF SECTION - 01013**

## INSTRUCTIONS TO BIDDERS

**Project:** Specification for the 2025 Targeted Asbestos Abatement at the Hodgson Vo-Tech High School.

**Bids Due:** May 1, 2025 at 2:00 p.m. (Local Time)

### **Send Bids**

**To:** Mr. Al Schrum, Director of Facilities  
New Castle County Vocational Technical School District  
1417 Newport Road  
Wilmington, Delaware 19804  
(302) 683-3647

**The Contractor shall submit three (3) complete copies of the bid with original signatures. Send the bid to the New Castle County Vocational Technical School District. Provide a sealed envelope containing the bid with envelop outer markings as follows:**

**Mr. Al Schrum, Director of Facilities  
New Castle County Vocational Technical School District  
1417 Newport Road  
Wilmington, Delaware 19804**

**“BID FOR 2025 TARGETED ASBESTOS ABATEMENT AT THE  
HODGSON VO-TECH HIGH SCHOOL  
SEALED BID - DO NOT OPEN”**

**Bids can be mailed using the U.S. Postal Service, hand-delivered or sent via an overnight delivery service. NO FACSIMILE OR EMAIL BIDS WILL BE ACCEPTED. The Contractor is responsible for submitting their bid by the required deadline and verifying that their bid has been received prior to the due date and time.**

All entries must be typed or made in ink. Bids must be completed by the Contractor in accordance with all instructions for providing a bid as included in this Specification.

## **INSTRUCTIONS TO BIDDERS**

### **Specification for the 2025 Targeted Asbestos Abatement at the Hodgson Vo-Tech High School.**

Please provide the following with your bid:

1. Completion of the Bid Form including acknowledgment of all addendums and properly completed Non-Collusion Statement and all other requirements. **A copy of the Bidder Delaware Business License must be attached to the Bid Form.**
2. Completed Bid Bond Form and Bid Bond document.
3. Copy of your current Delaware Business License.
4. Copy of your current Certificate of Insurance (specimen).
5. List all Federal, State, and Local citations (e.g., Notice of Violation) received in the last five years.
6. List all litigation or pending litigation with any Delaware school district within the last five years. This list shall include the Contractor and/or any Subcontractors and/or Vendors used by the Contractor.
7. List the number of Workers (including Supervisors) to complete the Work.
8. List the number of Calendar Days and Working Days to complete the Work.
9. List of all project Subcontractors.
10. List equipment for completing the Work.
11. List of all citations.

Arrangements can be made by the Contractor directly with the Owner for additional site visits prior to the bid due date by contacting Valentino (Val) De Rocili, Compliance Environmental, Inc., 302-674-4427, x101.

Bids shall remain valid for sixty (60) days from the date of opening.

**The New Castle County Vocational Technical School District reserves the right to reject all, or any bid, and to waive any informality or irregularity in any bid received. If applicable, a Schedule of Values section on the bid form will be used for accounting purposes only and not for determining the best bid for the project.**

A bid bond is required. The Contractor shall use the form provided in the Specifications.

The awarded Contractor shall provide a Payment Bond and Performance Bond for 100-percent of the amount included as the Base Bid indicated on the Bid Form prior to beginning the work if the bid is greater-than \$ 50,000.00.

**INSTRUCTIONS TO BIDDERS**

**Specification for the 2025 Targeted Asbestos Abatement  
at the Hodgson Vo-Tech High School.**

The Contractor shall begin the work within five (5) calendar days from the date of a Notice to Proceed and shall perform all site work within the time frame as specified.

The Contractor and their Subcontractors shall comply with all of the requirements of the Delaware Department of Labor, Delaware Prevailing Wage Regulations. Accordingly, the Contractor shall prepare and submit all payroll and time sheet information directly to the Delaware Department of Labor as required and provide a copy to the Owner.

The Contractor shall maintain a drug testing program during the term of the contract in compliance with Delaware Regulation 4104.

Applications for payment shall be submitted by the Contractor to the New Castle County Vocational Technical School District on AIA Documents G702/G703.

At completion of the project and prior to the release of retainage monies, the Contractor shall submit an affidavit of payment of debts and claims, and affidavit of release of liens (AIA sample documents G706/G706A provided in specification).

2025 TARGETED ASBESTOS ABATEMENT AT THE  
HODGSON VO-TECH HIGH SCHOOL  
CEI Number: CEI-020325

**BID FORM**

For Bids Due: May 1, 2025

To: New Castle County Vocational Technical School District  
1417 Newport Road  
Wilmington, Delaware 19804

Name of Bidder: \_\_\_\_\_

Delaware Business License No.: \_\_\_\_\_ Taxpayer ID No.: \_\_\_\_\_  
**(A copy of Bidder's Delaware Business License must be attached to this form.)**

(Other License Nos.): \_\_\_\_\_

Phone No.: (        ) \_\_\_\_\_ - \_\_\_\_\_ Fax No.: (        ) \_\_\_\_\_ - \_\_\_\_\_

The undersigned, representing that he has read and understands the Bidding Documents and that this bid is made in accordance therewith, that he has visited the site and has familiarized himself with the local conditions under which the Work is to be performed, and that his bid is based upon the materials, systems and equipment described in the Bidding Documents without exception, hereby proposes and agrees to provide all labor, materials, plant, equipment, supplies, transport and other facilities required to execute the work described by the aforesaid documents for the lump sum itemized below:

**BASE BID (Lump Sum)**

**Asbestos abatement of all interior surfaces with positive and assumed asbestos-containing materials at the school building including the removal and disposal of asbestos-containing materials, asbestos-contaminated materials and debris associated with all of the work listed in Section 01013 and all other sections of the specification and drawings for this project EXCLUDING THE GREENHOUSE BUILDING.**

\$ \_\_\_\_\_  
( \$ \_\_\_\_\_ )

**ALTERNATE BID ITEM (Lump Sum)**

**EXCLUDING THE BASE BID ITEMS, asbestos abatement of all interior and exterior surfaces with positive and assumed asbestos-containing materials at the GREENHOUSE BUILDING ONLY including dismantlement and the removal and disposal of asbestos-containing materials, asbestos-contaminated materials and debris associated with all of the work listed in Section 01013 and all other sections of the specification and drawings.**

\$ \_\_\_\_\_  
( \$ \_\_\_\_\_ )

**2025 TARGETED ASBESTOS ABATEMENT AT THE  
HODGSON VO-TECH HIGH SCHOOL  
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**BID FORM**

**UNIT PRICES**

Unit prices conform to applicable project specification section. The New Castle County Vocational Technical School District reserves the right to accept or reject any or all unit prices listed below. Refer to the specifications for a complete description of the following Unit Prices.

List the cost associated with adding or deducting each of the following asbestos-containing items:

	<b><u>ADD/DEDUCT</u></b>
UNIT PRICE No. 1: <u>Floor Tile Mastic removal and disposal per square-foot.</u>	\$ _____
UNIT PRICE No. 2: <u>Vinyl Covebase Mastic removal and disposal per square-foot.</u>	\$ _____
UNIT PRICE No. 3: <u>Caulk removal and disposal per linear-foot.</u>	\$ _____
UNIT PRICE No. 4: <u>Roofing Tar removal and disposal per square-foot.</u>	\$ _____
UNIT PRICE No. 5: <u>Break-In Flooring Locations per square-foot.</u>	\$ _____
UNIT PRICE No. 6: <u>Break-In Heat Locations per location.</u>	\$ _____
UNIT PRICE No. 7: <u>Valve &amp; Flange Gaskets removal and disposal per each.</u>	\$ _____

**2025 TARGETED ASBESTOS ABATEMENT AT THE  
HODGSON VO-TECH HIGH SCHOOL  
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**BID FORM**

Set up price - A - (Asbestos Contractor price to set up for additional work while still at the site). Three stage decontamination unit.  
Respiratory protection - PAPR

\$ \_\_\_\_\_ (Figure Amount)

\_\_\_\_\_ (Dollar Amount)

Containment - Price to be added to Set Up Price - A - reflects construction based on floor area as well as decontamination of affected areas.

1	-10 square feet	\$ _____	per square foot
11	-100 square feet	\$ _____	per square foot
101	-200 square feet	\$ _____	per square foot
201	-500 square feet	\$ _____	per square foot
501	-1000 square feet	\$ _____	per square foot

Set up price – B - (Asbestos Contractor price to set up for additional work while still at the site). Two stage decontamination unit.  
Respiratory protection - PAPR

\$ \_\_\_\_\_ (Figure Amount)

\_\_\_\_\_ (Dollar Amount)

Containment - Price to be added to Set Up Price - B - reflects construction based on floor area as well as decontamination of affected areas.

1	- 10 square feet	\$ _____	per square foot
11	- 100 square feet	\$ _____	per square foot
101	- 200 square feet	\$ _____	per square foot
201	- 500 square feet	\$ _____	per square foot
501	- 1000 square feet	\$ _____	per square foot

Set up price - C - (Asbestos Contractor price to set up for additional work while still at the site). Three stage decontamination unit.  
Respiratory protection – Type “C”

\$ \_\_\_\_\_ (Figure Amount)

\_\_\_\_\_ (Dollar Amount)

Containment - Price to be added to Set Up Price - A - reflects construction based on floor area as well as decontamination of affected areas.

1	-10 square feet	\$ _____	per square foot
11	-100 square feet	\$ _____	per square foot
101	-200 square feet	\$ _____	per square foot
201	-500 square feet	\$ _____	per square foot
501	-1000 square feet	\$ _____	per square foot

**2025 TARGETED ASBESTOS ABATEMENT AT THE  
HODGSON VO-TECH HIGH SCHOOL  
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**BID FORM**

I/We acknowledge Addendums numbered \_\_\_\_\_ and the price(s) submitted include any cost/schedule impact they may have.

This bid shall remain valid and cannot be withdrawn for sixty (60) days from the date of opening of bids, and the undersigned shall abide by the Bid Security forfeiture provisions. Bid Security is attached to this Bid.

The Owner shall have the right to reject any or all bids, and to waive any informality or irregularity in any bid received.

This bid is based upon work being accomplished by the Sub-Contractors named on the list attached to this bid.

**Should I/We be awarded this contract, I/We pledge to achieve substantial completion of all of the work at project within the asbestos abatement work period listed in the specification starting from the Notice to Proceed date using \_\_\_\_\_ workers each day and completing in \_\_\_\_\_ working days for the Base Bid Item and \_\_\_\_\_ workers per day and completing in \_\_\_\_\_ working days for the Alternate Bid Item.**

The undersigned represents and warrants that he has complied and shall comply with all requirements of local, state, and national laws; that no legal requirement has been or shall be violated in making or accepting this bid, in awarding the contract to him or in the prosecution of the work required; that the bid is legal and firm; that he has not, directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken action in restraint of free competitive bidding.

Upon receipt of written notice of the acceptance of this Bid, the Bidder shall, within twenty (20) calendar days, execute the agreement in the required form and deliver the Contract Bonds, and Insurance Certificates, required by the Contract Documents.

I am / We are an Individual / a Partnership / a Corporation

By \_\_\_\_\_ Trading as \_\_\_\_\_  
(Individual's / General Partner's / Corporate Name)  
\_\_\_\_\_  
(State of Corporation)

Business Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Witness:** \_\_\_\_\_ **By:** \_\_\_\_\_  
(SEAL) ( Authorized Signature )  
\_\_\_\_\_  
( Title )  
**Date:** \_\_\_\_\_

**ATTACHMENTS**

- Sub-Contractor List
- Non-Collusion Statement
- Bid Security
- (Others as Required by Project Manuals)

**2025 TARGETED ASBESTOS ABATEMENT AT THE  
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**BID FORM**

**SUBCONTRACTOR LIST**

In accordance with Title 29, Chapter 6962 (d)(10)b Delaware Code, the following sub-contractor listing must accompany the bid submittal. The name and address of the sub-contractor **must be listed for each category** where the bidder intends to use a sub-contractor to perform that category of work. In order to provide full disclosure and acceptance of the bid by the New Castle County Vocational Technical School District, it is required that bidders list themselves as being the sub-contractor for all categories where he/she is qualified and intends to perform such work.

<u>Subcontractor Category</u>	<u>Subcontractor</u>	<u>Address (City &amp; State)</u>	<u>Subcontractors tax payer ID # or Delaware Business license #</u>
1. Asbestos Remover	_____	_____	_____
2. OSHA Monitor	_____	_____	_____
3. Waste Hauler	_____	_____	_____
4. Analytical Services	_____	_____	_____
5. Electrician	_____	_____	_____

2025 TARGETED ASBESTOS ABATEMENT AT THE  
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**BID FORM**

**WASTE DISPOSAL FACILITY LIST**

The Contractor has included all required disposal of wastes in the bid and will use the following licensed and permitted waste disposal facilities on this project without substitution. Use multiple forms if needed.

1. **Asbestos-Containing and Asbestos-Contaminated Wastes:**

Facility Name: \_\_\_\_\_

Facility Address: \_\_\_\_\_

Facility Telephone Number: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_ EPA/State ID: \_\_\_\_\_

2. **Non-Asbestos-Containing and Non-Asbestos-Contaminated Wastes:**

Facility Name: \_\_\_\_\_

Facility Address: \_\_\_\_\_

Facility Telephone Number: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_ EPA/State ID: \_\_\_\_\_

2025 TARGETED ASBESTOS ABATEMENT AT THE  
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CEI Number: CEI-020325

**BID FORM**

**WASTE TRANSPORTER LIST**

The Contractor has included all required transport of wastes in the bid and will use the following licensed and permitted transporter(s) on this project without substitution. Use multiple forms if needed.

1. **Transporter 1:**

Transporter Name: \_\_\_\_\_

Transporter Address: \_\_\_\_\_

Telephone Number: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

2. **Transporter 2:**

Transporter Name: \_\_\_\_\_

Transporter Address: \_\_\_\_\_

Telephone Number: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

2025 TARGETED ASBESTOS ABATEMENT AT THE  
HODGSON VO-TECH HIGH SCHOOL  
CEI Number: CEI-020325

**BID FORM**  
**NON-COLLUSION STATEMENT**

This is to certify that the undersigned bidder has neither directly nor indirectly, entered into any agreement, participated in any collusion or otherwise taken any action in restraint of free competitive bidding in connection with this proposal submitted this date to the New Castle County Vocational Technical School District.

All the terms and conditions of CEI Project Number CEI-020325 have been thoroughly examined and are understood.

**NAME OF BIDDER:** \_\_\_\_\_

**AUTHORIZED REPRESENTATIVE  
(TYPED):** \_\_\_\_\_

**AUTHORIZED REPRESENTATIVE  
(SIGNATURE):** \_\_\_\_\_

**TITLE:** \_\_\_\_\_

**ADDRESS OF BIDDER:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**E-MAIL:** \_\_\_\_\_

**PHONE NUMBER:** \_\_\_\_\_

Sworn to and Subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

My Commission expires \_\_\_\_\_ . NOTARY PUBLIC \_\_\_\_\_ .

**THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.**

**2025 TARGETED ASBESTOS ABATEMENT AT THE  
HODGSON VO-TECH HIGH SCHOOL  
CEI Number: CEI-020325**

**AFFIDAVIT  
OF  
EMPLOYEE DRUG TESTING PROGRAM**

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors implement a program of mandatory drug testing for Employees who work on Large Public Works Contracts funded all or in part with public funds.

We hereby certify that we have in place or will implement during the entire term of the contract a Mandatory Drug Testing Program for our employees on the jobsite, including subcontractors that complies with this regulation:

**Contractor/Subcontractor Name:** \_\_\_\_\_

**Contractor/Subcontractor Address:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Authorized Representative (typed or printed):** \_\_\_\_\_

**Authorized Representative (signature):** \_\_\_\_\_

**Title:** \_\_\_\_\_

Sworn to and Subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

My Commission expires \_\_\_\_\_. NOTARY PUBLIC \_\_\_\_\_.

**THIS PAGE MUST BE SIGNED AND NOTARIZED FOR YOUR BID TO BE CONSIDERED.**

## APPENDIX 1

### CONTRACT PROCUREMENT

This solicitation is issued as an Agency procurement. The structure of this Request for Proposals does not remove or relinquish Public Works procurement procedures required by [29 Del. C. 69, Subchapter IV](#) as applied specifically to individually defined projects. Distinction from a Public Works contract is made in this Request for Proposals in that the resulting award is intended for services of recurring need with undetermined quantities contrast to Public Works contract awarded for individual projects. Accordingly, to avoid conflicting with Public Works procurement requirements, the individual requests for services should not exceed the current open procurement threshold for Public Works, which can be seen at: [Public Works Bid Thresholds](#)

### REGISTERED OR PREQUALIFIED BIDDERS

Bidders are not required to be registered or prequalified for this Request for Proposals. All bidding documents are made publicly available on <http://bids.delaware.gov/>. While subcontractors are not required to be prequalified for this solicitation, subcontractors, if used, should be identified individually on the subcontractor form included with this solicitation without a prequalification requirement.

### PREVAILING WAGE

The prevailing wage law, [29 Del. C. § 6960\(a\)](#), is enforced by the Department of Labor and states that the specifications for every contract or aggregate of contracts relating to a Public Works project in excess of \$500,000 for new construction (including painting and decorating) or \$45,000 for alteration, repair, renovation, rehabilitation, demolition or reconstruction (including painting and decorating of building or works) to which this State or any subdivision thereof is a party and for which the State appropriated any part of the funds and which requires or involves the employment of mechanics and/or laborers shall contain a provision stating the minimum wages to be paid various classes of laborers and mechanics which shall be based upon the wages that will be determined by the Delaware Department of Labor, Division of Industrial Affairs, to be prevailing in the county in which the work is to be performed.

The Department of Labor has determined that this contract and any work that stems from this contract regardless of location is subject to prevailing wage. The Department of Labor Prevailing Wage sheet for work performed under this contract is attached. The Vendor is required to conform with this determination and rate sheet.

According to [29 Del C. 6960\(c\)](#), every contract based upon these specifications shall contain a stipulation that sworn payroll information, as required by the Department of Labor, be furnished weekly. The Department of Labor shall keep and maintain the sworn payroll information for a period of 6 months from the last day of the work week covered by the payroll.

2025 Targeted Interior Asbestos Abatement at the Hodgson Vo-Tech High School  
CEI Project No.: CEI-020325

## **CONTRACTOR REGISTRATION ACT**

On July 1, 2021, the Contractor Registration Act, as codified in 19 Del. C. §§ 3601 *et seq*, took effect. This law requires all contractors to register with the Delaware Department of Labor before performing construction services or maintenance. The Contractor Registration Act applies to all contractors that engage in construction and maintenance within the State of Delaware. Additionally, it requires contractors to have Delaware workers' compensation insurance where required, compliance with labor laws, and proof of a state business license. The Delaware Department of Labor's Office of Contractor Registration is responsible for enforcement of the requirements of the Contractor Registration Act. If you have any questions about the contractor registration process, please call 302-430-7739 or email [Contract.Registry@delaware.gov](mailto:Contract.Registry@delaware.gov). Registration at [onestop.delaware.gov](http://onestop.delaware.gov).

## **CRAFT TRAINING PROGRAM**

In accordance with [29 Del. C. § 6962\(c\)\(13\)](#) of the Delaware Code, effective June 7, 2020, contractors and subcontractors must provide craft training for journeyman and apprentice levels under certain circumstances. If awarded a contract and selected to perform a project under the contract, vendor must complete the included Affidavit of Craft Training Compliance and present the Affidavit to the agency for whom the contractor is performing the project prior to a Purchase Order being completed by that agency. The attached affidavit shall be completed by the vendor and submitted to the agency.

## **DRUG TESTING PROGRAM**

The contractor shall maintain a drug testing program during the term of the contract in compliance with Delaware Regulation 4104. The attached affidavit shall be completed by the vendor and submitted to the agency with the bid.

## **EMPLOYMENT PREFERENCE**

In the construction of all Public Works projects for the State of Delaware or any agency thereof, preference in employment of laborers, workers or mechanics shall be given to bona fide legal citizens of the State who have established citizenship by residence of at least 90-days in the State.

**2025 Targeted Interior Asbestos Abatement at the Hodgson Vo-Tech High School  
CEI Project No.: CEI-020325**

**AFFIDAVIT OF  
CRAFT TRAINING COMPLIANCE**

We, the contractor, hereby certify that we and all applicable subcontractors will abide by the contractor and subcontractor craft training requirements outlined below for the duration of the contract. Craft training is defined as "an apprenticeship program approved by and registered with any State apprenticeship agency or the United States Department of Labor."<sup>1</sup> A list of crafts for which there are approved and registered training programs is maintained by the Delaware Department of Labor and can be found at [https://det.delawareworks.com/apprenticeship/documents/Apprenticeship Occupation List for 29Del6962 Compliance.pdf](https://det.delawareworks.com/apprenticeship/documents/Apprenticeship%20Occupation%20List%20for%2029Del6962%20Compliance.pdf) Information pertaining to subcontractor craft training programs shall be provided by the contractor prior to contract execution. If you have questions regarding craft training programs, please submit them in writing to the Delaware Department of Labor at: [apprenticeship@delaware.gov](mailto:apprenticeship@delaware.gov).

In accordance with Title 29, Chapter 69, Section 6962(c)(13) of the Delaware Code, contractors and subcontractors must provide craft training for journeyman and apprentice levels if **all** of the following apply:

- A. A project meets the prevailing wage requirement under Title 29, Chapter 69, Section 6960 of the Delaware Code.
- B. The contractor employs 10 or more total employees.
- C. The project is not a federal highway project

Failure to provide required craft training on the project may subject the successful contractor and/or subcontractor(s) to penalties as outlined in Title 29, Chapter 69, Section 6962(c)(13) of the Delaware Code.

**Craft(s):** \_\_\_\_\_

**Contractor Name:** \_\_\_\_\_

**Contractor Address:** \_\_\_\_\_  
\_\_\_\_\_

**Contractor/Subcontractor Program Registration Number** \_\_\_\_\_

On this line also indicate whether DE, Other State (identify) or US Registration Number

**Authorized Representative (typed or printed):** \_\_\_\_\_

**Authorized Representative (signature):** \_\_\_\_\_

**Title:** \_\_\_\_\_

Sworn to and Subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_

NOTARY PUBLIC \_\_\_\_\_.

My Commission expires \_\_\_\_\_.

2025 Targeted Interior Asbestos Abatement at the Hodgson Vo-Tech High School  
CEI Project No.: CEI-020325

**AFFIDAVIT OF  
EMPLOYEE DRUG TESTING PROGRAM**

4104 Regulations for the Drug Testing of Contractor and Subcontractor Employees Working on Large Public Works Projects requires that Contractors and Subcontractors implement a program of mandatory drug testing for Employees who work on Large Public Works Contracts funded all or in part with public funds.

We hereby certify that we have in place or will implement during the entire term of the contract a Mandatory Drug Testing Program for our employees on the jobsite, including subcontractors that complies with this regulation:

**Contractor/Subcontractor Name:** \_\_\_\_\_

**Contractor/Subcontractor Address:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Authorized Representative (typed or printed):** \_\_\_\_\_

**Authorized Representative (signature):** \_\_\_\_\_

**Title:** \_\_\_\_\_

Sworn to and Subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

NOTARY PUBLIC \_\_\_\_\_.

My Commission expires \_\_\_\_\_.