
ASBESTOS PROJECT DESIGN

*Prepared for
Rockingham County Public Schools
1201 North Liberty Street
Harrisonburg, VA 22801*

*Asbestos Removal Project
At
John C. Wayland Elementary
801 N Main Street
Bridgewater, VA*

January 2017

*Prepared by
REC, Inc.
22 S Main Street
Suite B01
Lexington, VA 24450
540-463-3336 / 540-463-3546
Visit us at www.RockbridgeEC.com*

INSTRUCTIONS TO BIDDERS

PURPOSE:

Invitation for Bids: This invitation is for the purpose of entering into a contract for the removal of asbestos-containing materials at John C. Wayland Elementary. Response shall be in the form of a Bid (including the completed bid form).

BACKGROUND:

Issuing Office: This Invitation for Bids is issued by Rockingham County Public Schools.

CONTRACT REQUIREMENTS:

Amount of Work to One Bidder: The Owner reserves the right to award each job separately to different contractors or in any given combination thereof, based on those present or future factors which are in the best interest of the Building Owner during the projected renovation demands. Contractor must bid the entire project. No subletting will be allowed without Owner's consent. Bidder must perform all work.

Required Completion Dates:

All Contractors shall be aware that current renovation plans dictate that time is of the essence in turning over each location where asbestos abatement is scheduled prior to other building trades completing their tasks. The successful Contractor shall work in accordance with the directions given by the Building Owner/ Owner's Representative and General Contractor. It is solely the Contractor's responsibility to attend pertinent Construction meetings in order to remain current on day to day operations and scheduling commitments as dictated by the Building Owner/ Owner's Representative and General Contractor.

Bids: Bids to be submitted in accordance with General Conditions outlined in the Project Design.

Bids are to be sent to:

Steve Reid

Director of Maintenance

Rockingham County Public Schools

1210 North Liberty Street

Harrisonburg, VA 22801

RE: "Asbestos Bid – John C. Wayland Elementary"

(540) 433-8195 fax

sreid@rockingham.k12.va.us

Mandatory Pre-Bid: A mandatory Pre-Bid Conference will begin promptly at 4:00 p.m., Tuesday January 10, 2017 at the project location.

Contractors may only bid on the Projects their representative has actually visited during the mandatory Pre-Bid. No bids will be accepted if Contractors name is not signed in on the Pre-Bid list. In order for a Contractor to bid on any or all of these projects, he must have visited each Pre-Bid for each Project Location.

Sealed or Faxed Bids: Bids will be accepted no later than 2:00 pm, local time, Tuesday January 24, 2017. Fax Number - (540) 433-8195.

Award of Contract: If acceptable Bids are received, the Owner, will, at his option, make awards on a total sum basis to the lowest responsive and responsible bidder(s). Due consideration will be given to quality, as judged by test and previous services. The Owner reserves the right to reject any or all Bids, in whole or in part, to waive informalities, and to delete items prior to making the award(s) whenever it is deemed in the sole opinion of the Owner to be in his best interest. Owner reserves the right to award each job separately to different contractors or in any given combination thereof, based on those present or future factors which are in the best interest of the Building Owner during the projected renovation demands.

Insurance: Commonwealth of Virginia Certificate of Insurance, or other acceptable Occurrence-type Asbestos Particular Insurance to the Owner, reflecting as a minimum \$1,000,000.00 coverage per occurrence shall be provided by the Contractor to the Owner prior to the beginning of any work under this Contract.

Waiver: The Contractor shall protect, indemnify, and hold harmless the Owner, Rockbridge Environmental Consulting, Inc., the Designer and Architect/Engineer and their officers, agents and employees from any and all demands for fees, claims, suits, sections or judgments based on the alleged infringement or violation of any patent, invention, article, arrangement or other apparatus which may be used in the performance of the Contract.

BID FORM

Form of Bid:
Invitation for Bid

Project Description:

Removal of ACM in strict accordance with AHERA guidelines. Removal of all asbestos and non-asbestos containing materials and any associated contaminated materials as described herein. Removal will be completed inside full negative pressure containments, glovebags or under nonfriable conditions utilizing wet methods and hand tools in properly demarcated areas. Successful Contractor shall work in accordance with Job Scope and Conditions described in this Project Design. The Abatement Contractor must be properly trained, qualified and insured to perform selective demolition and to handle lead-based paint.

Project Location:

John C. Wayland Elementary

Submit Bid to:

Steve Reid
Director of Maintenance
Rockingham County Public Schools
1210 North Liberty Street
Harrisonburg, VA 22801
(540) 434-4434 phone
(540) 433-8195 fax
sreid@rockingham.k12.va.us

Conditions:

Unless otherwise stated, Bids will be binding for the duration of construction. In compliance with this Invitation for Bids and all the Conditions imposed herein, the Undersigned offers to furnish the services, labor, materials and goods described at the price indicated, ensuring the proper and safe removal and disposal of all Asbestos-Containing Materials covered in the Project Design and for the above listed Project Locations.

The Undersigned understands that time is of the essence and agrees that the time for substantial completion of the entire project shall be dictated by the needs of the General Contractor/Owner to facilitate the flow of work for the completion of the renovation. **Contractor must work in accordance with Phasing as outlined in prints via Architecture Incorporated, of Reston, VA, Page PH1.1, as the building will be occupied.**

REC, Inc has listed approximate footages when possible. These should only be used as a guide. Contractor shall field verify all footages of ACM. The Undersigned also agrees to furnish such materials and to perform such labor as to complete said project for the following sums of money:

Scope of work – John C. Wayland Elementary School Abatement

BID ITEM 1: Friable

Removal of all Mudded/Joint fittings, saddle hangers/blocks on fiberglass straight run pipe insulation located in the Addition. Mudded fittings are visible above non-asbestos drop ceilings in Classrooms above 1'x1' ACT with wet areas/toilets. Protect floorings in all removal areas.

Demolition to access TSI inside walls and above plaster or non-asbestos ceilings, i.e. restrooms, kitchen, locker rooms areas. Once under containment, Contractor shall perform exploratory demolition to access. 2' x 2' trenches will be allowed for inspection by the Hygienist. Please refer to Architectural Plans for potential locations. Where present with prior authorization from REC as the Owner's agent, insulations will be removed using Unit cost only in inaccessible locations. Appx 10 locations

Glovebag asbestos-containing Mudded/Joint fittings, collar mud on fiberglass straight run pipe insulation on Roof Drains.

Total Friable materials \$ _____

BID ITEM 2: Nonfriable

Removal of all 9" x 9" and 12" x 12" Vinyl floor tiles and associated mastics located throughout the original building and addition. Fritz tile will remain in place, as it's new. Any vinyl baseboard adjacent to asbestos flooring will be removed. Abatement Contractor shall remove all carpeting in the building. Carpet can be disposed of as general construction debris if removal does not disturb tiles/mastics. Demolition Contractor will remove casework/cabinetry prior/floor mounted heaters prior.

Removal of black mastic applied to HVAC foil ductwork insulations located above spline tiles visible at Cafeteria.

Total Nonfriable materials \$ _____

BID ITEM 3: Exterior

Transite decorative cementitious panels at window systems and some doors, window caulking, and window glazing compound on aluminum-framed windows. Some are now interior. The entire window system shall be removed to expose rough opening. Protect all adjacent areas such as brick and masonry. Removal schedule shall be closely coordinated with GC and Owner.

Door caulking (trace amounts of asbestos) on all doors. Removal schedule shall be closely coordinated with GC and Owner.

Removal of insulation beneath aluminum jacketing on Chiller lines.

Total Exterior materials \$ _____

BID ITEM 4: Remobilization

The project is phased and the school will remain occupied during abatement. Please refer to the Architectural Phasing for compensation for returning to the project.

Grand Total \$ _____

BID ITEM 5: Unit pricing for Additional Work Only or Changes

Blackboard/whiteboard/tackboard adhesives (hockey pucks)/per classroom: _____

Asbestos mastics on non-asbestos insulations/per linear foot: _____

Friable TSI straight run pipe insulation per linear foot inside containment: _____

Glovebag TSI straight run pipe insulation per linear foot: _____

Glovebag TSI mudded fittings/per glovebag: _____

Remaining contaminated roofing insulation/per square foot: _____

Fire Doors as intact component removal: _____

Demolition of non-asbestos plaster and/or masonry to facilitate access per square foot: _____

Nonfriable Vinyl Floor tile (VFT) per layer per square foot (with critical barriers and splashguards, NAM's and decon): _____

VFT Mastic per square foot: _____

Contaminated Carpet per square foot: _____

Window glazing compound removal of whole unit (intact, wrapped in 2 layers): _____

Window/door caulking per unit: _____

Block Filler: _____

Mastic on HVAC: _____

ROCKINGHAM COUNTY PUBLIC SCHOOLS

BID SUBMITTED BY:

Name & Address of firm: _____ corporation _____ partnership

_____ fin/fei: _____

Telephone: _____ Fax: _____

Signature (in black ink):

Date of Bid:

Accepted by:
ROCKINGHAM COUNTY PUBLIC SCHOOLS

Date: _____

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John C. Wayland Elementary School
Asbestos Materials Removal*

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PROJECT DESIGN

Asbestos Materials Removal

SECTION 100 – GENERAL

Section 100.01 – Health Warning:

Contractors are warned that unprotected exposure to asbestos-containing materials has been determined to significantly increase the risk of incurring the following diseases: Asbestosis, Lung Cancer, Mesothelioma and certain Gastro-Intestinal Cancers. Care must be taken to avoid releasing or causing the release of asbestos fibers into the atmosphere, where they might be inhaled or ingested. With CFR1926.58, OSHA has set standards for: permissible exposure to airborne concentration of asbestos fibers; methods of compliance; personal protective equipment and other methods which must be utilized when working with or in the proximity of asbestos. In executing the Contract, the Contractor certifies that he shall comply with all parts of this regulation, as well as any more stringent requirements as specified herein.

Section 100.02 – Submittals:

The Contractor shall submit to the Owner and his Representative the following, at least one week prior to the commencement of work:

A) Certification:

- 1) The name of and evidence that the Project Supervisor is properly certified and licensed and has a minimum of one year on the job training.
- 2) Proof that he and each of his employees are certified and licensed in accordance with all federal, state and local regulations.
- 3) Contractor will provide the Owner with individual Workers Certificates of Acknowledgement, releasing the Owner from any health risks which may become evident as a result of asbestos exposure.

B) Notices:

The Contractor will submit Notices required by federal, state and local regulations, together with proof of timely transmittal to the agencies requiring the Notice.

C) Permits:

Submit copies of current valid permits required by state and local regulations, including arrangements for storage, transportation and disposal of contaminated materials. Dumpsite must conform to EPA Regulation 40CFR61 and any applicable state and local regulatory agencies.

D) Worker's Training:

The Contractor shall submit a list of the persons who will be employed by him and by his Sub-contractors in the removal work. Present evidence that the workers have received proper training as required by regulation, and medical examinations as required by OSHA 29 CFR 1926.58. Contractor shall distinguish between trained, experienced full-time personnel and pick-up labor. The Owner retains the right to refuse entry to the facilities any persons deemed not appropriate for the related work.

E) Insurance:

Contractor will carry occurrence-based insurance for the abatement work. Proof of this insurance will be submitted before signing the Contract. No less than one million dollars per occurrence.

F) Bonds:

Contractor will not be required by this Bid to supply a Performance or Payment Bond for this project.

Section 100.03 – Miscellaneous Provisions:

A) Conditions:

Contractor agrees to indemnify, defend and hold harmless the Owner, his agents and employees from any claims, damages and actions of any kind or nature, whether at law or in equity, arising from or caused by the use of any materials, goods or equipment of any kind or nature furnished by the Contractor, provided that such liability is not attributable to the sole negligence of the using agency or failure of the using agency to use the materials, goods or equipment in the manner described by the Contractor on materials, goods or equipment delivered. Nothing contained herein shall be deemed an express or implied waiver of the immunity of the State of Virginia.

SECTION 200 – SUMMARY OF WORK

Section 200.01 Contractor's Duties:

Briefly and without force and effect upon the Contract Documents, the work of the Contract can be summarized as follows:

Removal of asbestos-containing materials and asbestos contaminated materials inside negative pressure containments in strict accordance with 40 CFR Part 763, AHERA Regulations governing asbestos removal in schools.

A) Except as specifically noted, Contractor will provide and pay for: labor, materials, equipment, tools, construction equipment and machinery, and all other facilities/services necessary for the proper execution and completion of work.

B) Contractor will secure and pay for (as necessary for the proper execution and completion of work, and as applicable at the time of bidding): permits, government fees, licenses and waste disposal permits and costs.

C) Contractor will give all required Notices.

D) The Contractor will comply with all codes, ordinances, rules, regulations, orders and other legal requirements of public authorities (including EPA, NESHAP, OSHA & DOT Regulations) which bear on the performance of the work. Where conflict occurs between these specifications and the referenced regulations, the more stringent shall govern. The Contractor shall obtain the necessary permits and notices prior to commencement of work.

E) The Contractor shall procure and shall maintain during the life of this Contract: Workmen's Compensation Insurance (as required by the applicable state or territorial law) for all of his employees to be engaged in work at the site of the Project under this Contract and, in case of any work sublet, the Contractor shall require that the Sub-Contractor similarly provide Workmen's Compensation Insurance for all of the Sub-Contractor's employees to be engaged in such work, unless such employees are covered by the protestation afforded by the Contractor's Workmen's Compensation Insurance.

F) The Contractor shall, throughout the course of the Abatement Project, maintain the Project free from any condition that may result in danger or nuisance to the public, including but not limited to dust and debris.

G) Contractor shall remove from all public and private property, at his own expense, all temporary structures, rubbish and waste materials resulting from his operations, and shall leave the site in a neat and orderly condition.

H) The Contractor will obtain the required business license from the appropriate Commissioner of Revenue's Office prior to commencement of work.

I) The Contractor will have a current Virginia Class A Contractor's License and a Virginia Abatement Contractor's License.

J) The Abatement Contractor shall be considered as the "Generator's Authorized Agent" and will be responsible for the safe removal and disposal of all asbestos-containing building materials in accordance with all local, state and federal laws. The Abatement Contractor shall be responsible for signing all waste manifest forms as the "Generator's Authorized Agent." This in no way transfers ownership of the asbestos-containing building materials from the Owner to the Abatement Contractor.

SECTION 300 – FRIABLE AND NON-FRIABLE ASBESTOS ABATEMENT

Section 300.01 – Scope:

Until proven otherwise, the Contractor shall assume that all materials (for which the removal is specified) contain asbestos, and shall handle and dispose of such materials as specified herein. This work shall be done in strict accordance with the Project Specifications. Compliance with all applicable federal, state and local regulations, and the use of the best available technology, procedures and methods for preparation, execution, clean-up, disposal and safety are absolutely required.

Project Description:

Contractor shall pre-clean the areas before placing poly sheeting and beginning abatement. Contractor shall place protective poly over all items present prior to removal. Contractor shall protect items inside the removal area including non-asbestos flooring (and in this case asbestos flooring) and shall be responsible for any damage inside of those areas after the removal.

Contractor shall maintain adequate negative pressure at all times. Machines will be vented to the exterior of the building with openings secured with plywood.

Contractor shall not remove any materials until workers are dressed in protective clothing with appropriate respirator protection. Abatement Contractor will be responsible for exposing pipe above ceilings and encased in walls to facilitate access only to the degree necessary for removal. Workers need to make access to identify asbestos located above the ceiling or in walls in each containment to demonstrate the area is clean for the hygienist. Bulk demolition should precede asbestos removal with critical barriers applied as needed under negative pressure. In some cases, plywood or poly bulkheads may be necessary.

Non-asbestos materials such as fiberglass insulation can be removed prior to disturbance of ACM. Where tile exists below interior partition walls, Contractor shall make tile accessible and abate materials at the direction of the General Contractor and/or Owner's representative. When removing vinyl floor tile, Contractor shall remove associated vinyl baseboards and shoe moldings.

Glovebagging shall be completed utilizing proper glovebag techniques in a properly demarcated area. When glovebagging is completed, the area has been decontaminated thoroughly using wet methods and HEPA vacuums and visually inspected by the Hygienist, Contractor shall apply bridging encapsulant to remaining asbestos containing pipe insulation when applicable.

Any windows, doors and roofing shall be removed in properly demarcated areas using hand tools and wet methods after close coordination with General Contractor and written Owner approval. All areas will be HEPA vacuumed and completely decontaminated. Windows and doors must be removed when caulking has been identified to expose the rough opening. Plywood will be placed in the opening.

All surfaces/areas/spaces will be decontaminated completely and HEPA vacuumed thoroughly. All materials shall be placed in puncture-resistant bags. Contractor shall place all asbestos-containing materials inside an enclosed dumpster or trailer, and shall not place any friable asbestos-containing materials in an open-topped dumpster.

- A)** Contractor will first build an AHERA-Approved Decon for all work containments. This decon shall be placed at the entrance to all asbestos removal areas.
- B)** The negative pressure inside the containment will be maintained between .025 and .06 column inches of water at all times. The negative pressure will be verified and the Contractor will provide a continuous strip recorder with a printable verification for the Building Owner and/or his Representative.
- C)** All internal and external penetrations will be sealed in all containments. All immovable equipment will be sealed with 6 mil poly critical barriers. Contractor shall apply two layers of

six-millimeter poly where asbestos thermal system insulation is being removed in a gross manner. Contractor shall always have at least two layers of 6 mil poly on the floor when removing asbestos in a gross manner or one layer when removing inside of a glovebag. All drains will be sealed with a 5 micron filter inside the drain.

D) Contractor will be responsible for cleaning of all walls, floors and ceilings. No loose debris will be left. A secondary measure of security will be the use of a five-micron sock in the drains, prior to removal.

E) Contractor will be responsible for encapsulation of all containment areas in a protected manner. No encapsulation will proceed until the hygienist has completed a successful visual inspection.

F) All ladders and/or scaffolding will conform to OSHA Regulations.

G) Contractor shall provide an electrical panel or panels appropriate for running all electrical equipment inside the containment. A licensed electrical contractor at the asbestos Contractor's expense shall connect this panel.

H) Contractor shall use properly licensed asbestos workers.

I) Contractor shall, after removing TSI materials, remove the TSI materials from the containment and store and/or transport them to a landfill using a solid, enclosed dump trailer.

J) When applicable, Contractor shall provide all workers with heavy leather gloves for hand protection for all workers.

K) Contractor shall provide hot and cold running water in the showers. Hot water may be accessible at the job site. If it is not, then the Contractor shall provide a hot water heater for proper showering of workers.

L) When bi-lingual personnel is used, Contractor must provide at least one competent person literate in English and the primary language of the crew on the outside of containment at all times and at least one competent person literate in English and the primary language of the crew on the inside of containment at all times the crew is onsite.

M) Certified Low-odor mastic remover will be used for all mastic removal. Contractor will mop work area with TSP-PF detergent or equivalent before Final Visual is granted and during tear down.

Section 300.02 – Description:

Contractor will furnish all labor, materials, equipment, and occurrence insurance. All work will be in accordance with the most stringent requirements of EPA, OSHA and all other applicable regulatory agencies, to complete the removal of asbestos-containment materials as described above.

Section 300.03 – Terminology (Definitions):

Abatement – Procedure to control fiber release from asbestos-containing building materials.

Air Monitoring – The process of measuring the fiber content of a specific volume of air in a stated period of time. For this Project, NIOSH 582 and PCM Sampling will be performed. When aggressive air sampling is specified, blowers are used to disperse settled fibers into the air during the sampling procedure.

Amended Water – Water to which a surfactant has been added to reduce water surface tension and thereby provide a more rapid penetration.

Bi-lingual – able to speak two languages with equal facility

HEPA-Vacuum Equipment - High efficiency particulate air-filtered vacuuming equipment with a filter system capable of collecting and retaining asbestos fibers. Filters should be of 99.97% efficiency for retaining fibers greater than 0.3 microns in length.

On-Site Representative – Owner's Representative responsible for air monitoring and enforcement of the specifications. Representative on this Project is REC, Inc.

Owner – Rockingham County Public Schools

Removal – All specified procedures necessary to remove asbestos-containing materials from an area and dispose of the materials at an acceptable site in an acceptable manner.

Wet-Cleaning/Wiping – The process of eliminating contamination from building surfaces and object by using damp cloths, mops or other cleaning tools which have been dampened with water, and afterwards disposing of these tools as asbestos-contaminated waste.

Section 300.04 – Codes and Regulations:

Federal Regulations:

- A) OSHA – U.S. Department of Occupational Health & Safety Administration
- B) EPA – U.S. Environmental Protection Agency
- C) DOT – U.S. Department of Transportation

Section 300.05 – Pre-Work Inspections:

Upon completion of all work area preparation, and four (4) hours before work is to begin, notify the Owner's Representative that the work area is ready for inspection. The Contractor shall not begin removal work until the Owner's Representative has inspected the area and any deficiencies have been corrected.

Section 300.06 – Gross Removal Operations:

A) Any housing grills, vents or penetration concealing asbestos-containing materials shall be lowered or removed and protected, in order to provide access to the materials.

B) Spray asbestos-containing materials with amended water, using spray equipment capable of providing a mist application to reduce the release of fibers. Saturate the material sufficiently to wet it to the substrate without causing excessive dripping. The use of RPM power equipment, pressure washers, shall not be acceptable. Remove all saturated asbestos material in small sections from all areas. Material shall not be dropped. For heights up to fifteen feet, provide inclined chutes to intercept drop. For heights exceeding fifteen feet provide enclosed, dustproof chutes. Materials shall not be allowed to dry before placing in sealable poly sheeting of 6-mil minimum thickness. All asbestos materials shall be thoroughly and totally removed. Nylon brushes shall be used to clean asbestos fibers from rough surfaces. No asbestos-containing material is to remain for any reason, nor is any friable asbestos-containing material to be encapsulated rather than removed. Any contaminated material capable of puncturing the poly bags shall be packaged separately.

C) Maintain work area free of accumulated asbestos-containing materials at all times. Keep waste wet until enclosed in sealed poly bags.

D) Seal all poly bags tightly and ensure that each is airtight. Ensure that all contaminated materials are double-wrapped to yield a minimum covering of 12 mil before removal from the work area. Move the bagged materials to the wash-down station adjacent to the equipment decontamination enclosure. Once inside the washroom, the bags shall be wet-cleaned or HEPA-vacuumed and passed into the holding room. Single bagged materials shall be placed in a clean bag or into a lined drum. At no time shall a removal worker pass the curtained doorway between the holding room and the container room.

Section 300.07 - Gross Clean-Up

A) Remove all visible accumulations of asbestos-containing material and debris by HEPA-vacuuming, sponging, etc. Wet-clean all surfaces within the work area.

B) The entire work area shall be totally, visibly clean. The Contractor shall notify the Owner's Representative of the time the work area will be subject for visual inspection.

SECTION 400 – ABATEMENT MONITORING

Section 400.01 – Description:

The Owner will employ REC, Inc. as an Environmental Health Testing Firm to perform monitoring for the abatement. The Contractor will be responsible for securing, at his own expense, analytical data to be furnished for daily personal samples.

Section 400.02 – Monitoring:

REC, Inc. shall perform Air Sampling and Project Monitoring. Air Monitoring shall be conducted to ensure that the Abatement Contractor is complying with all applicable regulations. Air Sample Analysis shall be performed by a Virginia licensed, PAT participating laboratory.

Section 400.03 – Monitoring Prior To & During Actual Removal:

If monitoring outside the asbestos control area indicates airborne fiber concentration at or above .01 f/cc, or the reference baseline ambient level (whichever is greater), the Contractor shall stop all work, correct the conditions causing the increase, and immediately notify the Owner's Representative.

Section 400.04 – Final Clearance:

A) Upon completion of the Final Visual, encapsulation of the area and a 24-hour delay, Final Air Sampling will commence. Final Air Sampling will be PCM prior to demolition or TEM for remaining structure. For PCM, a Virginia licensed, PAT proficient laboratory will be used. For TEM, five samples will be taken inside the environment. If these samples prove to be less than 70 structures per millimeter square, the Project will be considered complete. If these samples prove to be greater than 70 structures per millimeter square, the Contractor will reclean and re-encapsulate. The Contractor will pay for the next charge for final sampling.

B) Verbal clearance will be accepted to allow the Contractor to strike the containment.

