



November 6, 2025

Dorchester School District Two
164 McQueen Boulevard
Summerville, South Carolina 29483

Attention: Mr. Robby Waltz, Facilities Maintenance Project Manager
rwaltz@dorchester2.k12.sc.us

Reference: **Asbestos Project Design and Drawings**
Newington Elementary School
Dorchester School District Two
Summerville, South Carolina
S&ME Project No. 25130131

Dear Mr. Waltz:

S&ME, Inc. (S&ME) is pleased to provide the enclosed asbestos project design and drawings to support asbestos abatement at the referenced school. The attached documents were prepared in general accordance with S&ME Proposal 25130131A dated September 12, 2025. The documents detail the proper removal, transportation, and disposal of designated asbestos containing materials and associated contaminated materials located at the subject site.

We appreciate the opportunity to provide you with our industrial hygiene services. If you have any questions concerning this report, please call us at (843) 884-0005.

Sincerely,

S&ME, Inc.

A handwritten signature in blue ink that reads "Terry W. Richburg".

Terry W. Richburg
Operations Manager – Industrial Hygiene
SCDES Licensed Project Designer (PD-00054)

A handwritten signature in blue ink that reads "Josh B. Veloso".

Josh B. Veloso
Associate Industrial Hygienist

Attachments: 1. Asbestos Project Design
2. Project Designer's SCDES License
3. Figures H-1 and H-2 dated November 6, 2025

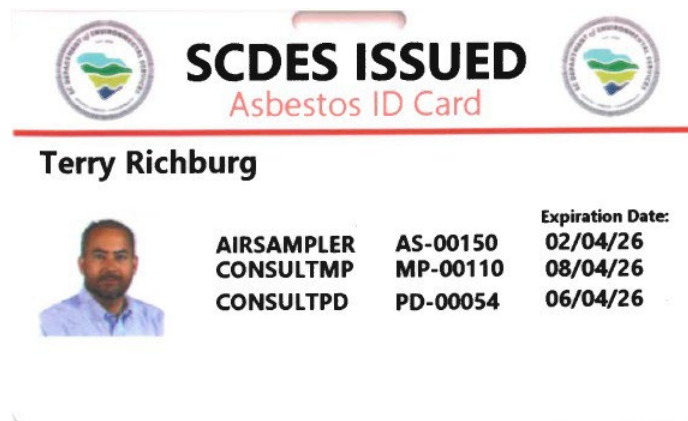
Attachments



**South Carolina
Department of Environmental Services**

Asbestos License

Terry W. Richburg



*Air Sampler AS-00150
Management Planner MP-00110
Project Designer PD-00054*

REMOVAL AND DISPOSAL OF ASBESTOS CONTAINING MATERIALS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this section.

1.2 SUMMARY

- A. Remove and dispose the asbestos containing materials and associated contaminated non-asbestos containing materials designated on Figures H-1 and H-2 dated November 6, 2025, and attached to this specification.
- B. The Contractor shall assume full responsibility and liability for compliance with all applicable federal, state and local regulations pertaining to work practices, hauling, disposal, protection of workers, visitors to the site and persons occupying areas adjacent to the site. The Contractor shall hold the Owner and Owners Representative harmless for failure to comply with any applicable work, hauling, disposal, safety, health or other regulation on the part of himself, his employees or his subcontractors.
- C. The Contractor shall coordinate the work schedule and any weekend/after-hours work with the Owner.

1.3 REFERENCES

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

A. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

- 1. ANSI Z9.2 (1979; R 1991) Fundamentals Governing the Design and Operation of Local Exhaust Systems
- 2. ANSI Z88.2 (1992) Respiratory Protection

B. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

- 1. ANSI C 732 (1995) Aging Effects of Artificial Weathering on Latex Sealants
- 2. ASTM D 522 (1993; Rev. A) Mandrel Bend Test of Attached Organic Coatings
- 3. ASTM D 1331 (1989; R 1995) Surface and Interfacial Tension of Solution of Surface-Active Agent

4. ASTM 2794 (1993) Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact)
5. ASTM E 84 (1995) Surface Burning Characteristics of Building Materials
6. ASTM E 96 (1995) Water Vapor Transmission of Material
7. ASTM E 119 (1995; Rev. A) Fire Tests of Building Construction and Materials
8. ASTM E 1368 (1990) Visual Inspection of Asbestos Abatement Projects

C. CODE OF FEDERAL REGULATIONS

1. 29 CFR 1910.134 Respiratory Protection
2. 29 CFR 1926.51 Sanitation
3. 29 CFR 1926.200 Accident Prevention Signs and Tags
4. 29 CFR 1926.59 Hazard Communication
5. 29 CFR 1926.1101 Asbestos, Tremolite, Anthophyllite, Actinolite
6. 40 CFR 61, SUBPART A General Provisions
7. 40 CFR 61, SUBPART M National Emission Standards for Asbestos
8. 40 CFR 763 Asbestos Containing Material in Schools

D. ENVIRONMENTAL PROTECTION AGENCY (EPA)

- EPA 560/5-85-024 Guidance for Controlling Asbestos Containing Materials in Buildings

E. UNDERWRITERS LABORATORIES INC. (UL)

- UL 586 1990 High-Efficiency, Particulate, Air Filter Units

F. SOUTH CAROLINA DEPARTMENT OF ENVIRONMENTAL SERVICES (SCDES)

- 61-86.1 Standards of Performance for Asbestos Projects

1.4 DEFINITIONS

A. Adequately Wet

To sufficiently mix or penetrate with liquid as to prevent the potential release of particulate.

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B. Aggressive Clearance Sampling

A method of sampling which uses electric fan(s), electric leaf blower, and other devices to simulate vigorous activity in the abated area while air samples are being collected.

C. AHERA

Asbestos Hazard Emergency Response Act applicable to Kindergarten through Grade 12.

D. Amended Water

Water containing a wetting agent or surfactant with a surface tension of 29 dynes per square centimeter when tested in accordance with ASTM D 1331.

E. Area Sampling

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

F. Asbestos

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

G. Asbestos Control Area

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

H. Fibers

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

I. Asbestos Permissible Exposure Limit

A concentration of 0.1 fibers per cubic centimeter of air as an 8-hour time weighted average as determined by 29 CFR 1926.1101 or other federal legislation having legal jurisdiction for the protection of workers health.

J. ASHARA

Asbestos School Hazard Abatement Reauthorization Act

K. Background Monitoring

Area sampling performed prior to abatement to obtain an index of airborne fiber levels under typical activity.

L. Clean Room

An uncontaminated area or room, which is a part of the decontamination enclosure system with provisions for storage of street clothing and protective equipment.

M. Clearance Monitoring

Area air sampling performed using Phase Contrast Microscopy (PCM) or Transmission Electron

Microscopy (TEM) aggressive clearance sampling techniques per SCDES requirements to determine the airborne concentrations of residual fibers upon conclusion of asbestos abatement.

N. Contractor

The Contractor is that individual or entity under contract to the Owner to perform the herein-listed work.

O. Critical Barrier

A leak-tight seal applied from within the work area to isolate vents, windows, doors, and any other cavity or opening to the contaminated work area.

P. Encapsulants

Specific materials in various forms used to chemically entrap asbestos fibers in various configurations to prevent these fibers from becoming airborne. There are four types of encapsulants as follows, which must comply with performance requirements as specified herein.

Q. Friable Asbestos Material

Material that contains more than one percent asbestos by area and that can be crumbled, pulverized, or reduced to powder by the forces expected to act upon it during demolition or renovation operations.

R. HEPA Filter Equipment

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

S. Owners Representative/Industrial Hygienist

That industrial hygienist (IH) employed by the Owner to monitor, sample, and perform testing aspects in accordance with SCDES. The IH for this project is S&ME, Inc.

T. Non-friable Asbestos Material

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

U. Personal Sampling

Air sampling to determine asbestos fiber concentrations within the breathing zone of a specific employee, performed in accordance with 29 CFR 1926.1101. The cost and responsibility of personal sampling is that of the abatement contractor.

V. Regulated Asbestos-containing Material (RACM)

Friable asbestos-containing material; Category I non-friable ACM that has become friable; Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting, or abrading, or Category II non-friable ACM that is likely to become crumbled, pulverized, or reduced to powder by the forces expected to act on the material in the course of demolition or

renovation operations.

W. Time Weighted Average (TWA)

The TWA is an 8-hour time weighted average airborne concentration of asbestos fibers. A full shift sample per work task is required to establish that person's TWA exposure.

X. Wetting Agent

That specific agent used to reduce airborne asbestos levels by physically bonding asbestos fibers to material to be removed. An equivalent wetting agent must have a surface tension of at least 29 dynes per square centimeter as tested in accordance with ASTM D 1331.

1.5 REQUIREMENTS

A. Description of Work

The work covered by this section includes the handling of asbestos containing materials which are encountered during repair, construction and demolition and describes some of the resultant procedures and equipment required to protect workers and occupants of the building or area, or both, from contact with airborne asbestos fibers. The work also includes the disposal of the generated asbestos containing materials. More specific operational procedures will be outlined in the Asbestos Hazard Abatement Plan, to be provided by the contractor, called for elsewhere in this specification.

B. Contractor Responsibilities

The removal and disposal of asbestos containing materials shall be performed by an asbestos abatement contractor licensed by the SCDES as these materials may release airborne asbestos fibers during demolition or removal and therefore must be handled in accordance with the removal and disposal procedures as specified herein. Asbestos abatement shall be performed in accordance with the OSHA 29 CFR 1926.1101, EPA 40 CFR 61, and SCDES 61-86.1. The Contractor shall assume full responsibility and liability for compliance with all applicable federal, state and local regulations pertaining to work practices, hauling, disposal, protection of workers, visitors to the site and persons occupying areas adjacent to the site. The Contractor shall hold the Owner and Owners Representative harmless for failure to comply with any applicable work, hauling, disposal, safety, health or other regulation on the part of himself, his employees or his sub-contractors.

C. Treatment of Asbestos Containing Materials

1. Asbestos containing roofing material debris is accumulated on the topside of non-asbestos acoustical ceiling tiles, non-asbestos plaster ceilings, batten insulation, ductwork, and other horizontal surfaces.
2. Roofing material debris, ceiling tiles, batten insulation and fiberboard/flexible ductwork shall be removed using friable methods inside a negative pressure enclosure (NPE), in accordance with the SCDES Regulations 61-86.1 and OSHA 29 CFR 1926.1101.
3. Non-asbestos acoustical ceiling tiles and fiberglass batten insulation are assumed to be contaminated by asbestos and shall be removed and disposed using friable methods inside a NPE and disposed as asbestos waste.

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4. Asbestos containing roofing material debris shall be vacuumed and wet wiped from the topside of non-asbestos plaster ceilings to remain, structural steel, and various horizontal surfaces above the suspended ceiling throughout the school.
5. Non-asbestos plaster ceilings shall not be damaged during removal of asbestos containing roofing material debris. A clear lock-down encapsulant shall be applied to the topside of plaster ceilings following removal of roofing material debris.
6. The metal suspended ceiling grid shall be wrapped with two layers of 6-mil polyethylene sheeting and disposed as asbestos waste or cleaned free of asbestos debris and disposed as general construction debris.
7. Friable abatement activities shall be conducted inside a negative pressure enclosure (NPE) in accordance with the SCDES Regulations 61-86.1 to include but not limited to a five-stage decontamination unit consisting of an ample sized clean/changing room, airlock, shower with hot and cold running water, airlock, and equipment room. Each NPE shall have negative air filtration fitted with high efficiency particulate air (HEPA) filters, viewing port, waste load-out, critical barriers, pressure differential manometer, and maintain continuous negative air pressure to a minimum negative 0.02 (-0.02) inches of water.
8. Wet methods shall be used during all friable removal activities. The ACMs shall not be allowed to accumulate, and the work area shall be cleaned at the end of each shift.
9. Onsite air monitoring shall be performed in accordance with SCDES Regulations 61-86.1 and shall be provided by the Owner.

D. Recordkeeping Requirements

1. Medical Requirements
Maintain medical requirements, including but not limited to Medical Surveillance and medical recordkeeping as listed in 29 CFR 1926.1101.
2. Medical Examinations
Before initial exposure and annually, provide workers with a comprehensive medical examination as required by 29 CFR 1926.1101 or other pertinent state or local directives.
3. Medical Records
Maintain complete and accurate records of employees' medical examinations, medical records, and exposure data for a period of 50 years after termination of employment and make records of the required medical examinations and exposure data available for inspection and copying to: The Assistant Secretary of Labor for Occupational Safety and Health (OSHA), or authorized representatives of them, and an employee's physician upon the request of the employee or former employee.
4. Training
Maintain licenses required by SCDES for workers and supervisory personnel. License and training shall be no more than one year prior to the assignment to asbestos work, each

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employee shall be instructed with regard to the hazards of asbestos, safety and health precautions, the use and requirements for protective clothing, equipment, and respirators, and the association of cigarette smoking and asbestos related disease, and all additional requirements of 29 CFR 1926.1101. Each employee shall participate in a respiratory protection program, be furnished a respirator, and fit test administered as required by 29 CFR 1926.59 and 29 CFR 1910.134. Fully cover engineering and other hazard control techniques and procedures whichever is more stringent. The Contractor shall provide documentation to the Owner or Owner's representative upon request.

5. Permits, Licenses and Notifications

Obtain necessary permits and licenses in conjunction with asbestos removal, hauling, and disposition, and furnish timely notification of such actions required by Federal, state, regional, and local authorities. Notify the SCDES with an asbestos abatement notification form 10 working days prior to the commencement of work in accordance with 40 CFR 61, SUBPART M and SCDES Regulations 61-86.1.

6. Safety and Health Compliance

In addition to detailed requirements of this specification, comply with those applicable laws, ordinances, criteria, rules, and regulations of federal, state, regional, local authorities regarding handling, storing, transporting, and disposing of asbestos waste materials. Comply with the applicable requirements of SCDES Regulation 61-86.1, 29 CFR 1926.1101, 40 CFR 61, SUBPART A, 40 CFR 61, SUBPART M and 40 CFR 763. Submit matters of interpretation of standards to the appropriate administrative agency and Owner's representative for resolution before starting the work. Where requirements of this specification, applicable laws, rules, criteria, ordinances, regulations, and referenced documents vary, the most stringent requirement shall apply.

7. Respiratory Protection Program

Establish and implement a respirator program as required by ANSI Z88.2, 29 CFR 1910.134 and 29 CFR 1926.1101.

8. Industrial Hygienist (IH)

Conducts project design, and background, daily and clearance air sampling (if applicable by state and federal law) under the direction of an Industrial Hygienist currently certified for comprehensive practice by the American Board of Industrial Hygiene. The IH retained for this project by the Owner is S&ME, Inc.

9. Hazard Communication

Adhere to all parts of 29 CFR 1926.59 and provide a copy of the Material Safety Data Sheets (MSDS) for all materials brought to the site.

1.6 SUBMITTALS

A. Manufacturer's Catalog Data

1. Vacuums
2. Encapsulant
3. Negative air machines

B. Statements

1. Asbestos Hazard Abatement Plan (not a project design)
Contractor shall submit a detailed plan of the safety precautions, specific work procedures and sequence to be used in the removal and disposal of materials containing asbestos. The plan shall include but not be limited to the precise personal protective equipment to be used, the location of asbestos control areas, removal methods of each ACM, interface of trades involved in the construction, sequencing of asbestos related work, disposal plan, type of wetting agent, quantity of negative air machines onsite, description of areas composing each NPE, and a detailed description of the method to be employed in order to control pollution. The Contractor shall meet with the Owner's Representative prior to beginning work to discuss in detail the asbestos plan, including work procedures and safety precautions. The abatement plan must be approved prior to the start of any asbestos work. Once reviewed and accepted by the Owner's Representative, the plan will be enforced as if an addition to the specification.
2. Landfill Approval
Submit written evidence that the landfill is approved for asbestos disposal by SCDES. Submit detailed delivery tickets, prepared, signed and dated by an agent of the landfill, certifying the amount of asbestos materials delivered to the landfill, within five days after delivery.
3. Employee Training
Submit SCDES licenses for each employee indicating that the employee has received training in the proper handling of materials that contain asbestos; understands the health implications and risks involved, including the illnesses possible from exposure to airborne asbestos fibers; understands the use and limits of the respiratory equipment to be used; and understands the results of monitoring of airborne quantities of asbestos as related to health and respiratory equipment as indicated in 29 CFR 1926.1101, 40 CFR 763 and maintains licensing on an annual basis.
4. Medical Certification Statement
Provide a written statement that all workers and supervisors have met or exceeded all medical prerequisites listed herein and in 29 CFR 1926.1101 and 29 CFR 1910.134.
5. Respiratory Protection Statement
Submit a written statement of compliance with OSHA 29 CFR 1910.134.
6. SCDES Notification
South Carolina Department of Environmental Services asbestos notification shall be obtained by the contractor and provided to the Owner's representative prior to work activities, to include verification of disposal of asbestos containing materials.
7. Pollution Liability Insurance
Pollution liability shall include abatement and transportation, shall be occurrence based, and written on a project basis with coverage of \$1,000,000 with a deductible of \$5,000 for any one occurrence. A project specific insurance certificate shall be provided listing the Owner as an Additional Insured.

Field Test Reports

1. **Personal Air Sampling Results**
Complete fiber counting for personal air samples in accordance with 29 CFR 1926.1101 of the OSHA and maintain on the job site. Submit sampling results to the Owner and the affected Contractor employees within 16 hours of sample extraction, signed by the testing laboratory performing air sampling, or the employee that analyzed the sample. Personal monitoring as required by the OSHA is the responsibility of the Contractor. The Contractor shall include cost of such monitoring in the Base Bid.
2. **Pressure Differential Recordings for Local Exhaust System**
Provide a local exhaust system that creates a negative pressure of at least 0.02 inches of water relative to the pressure external to the enclosure and operate it continuously, 24 hours a day, until the temporary enclosure of the asbestos control area is removed. Submit pressure differential recordings for each workday to the Owner's Representative from the end of each workday.
3. **Daily Field Reports**
Daily field records must be submitted to the Owner on a weekly basis. Field reports must log individuals on-site and record work practices and notable incidents of the day.
4. **Asbestos Disposal Quantity Report**
Contractor shall submit at the completion of project, the quantity of asbestos waste disposed.

PART 2 PRODUCTS

2.1 ENCAPSULANT

Shall conform to current EPA requirements, shall contain no toxic or hazardous substances, no solvents and shall conform to the following performance requirements.

A. Removal Encapsulant

<u>Requirement</u>	<u>Test Standard</u>
Flame Spread - 25, Smoke Emission -50	ASTM E84
Combustion Toxicity Zero Mortality	University of Pittsburgh Protocol
Life Expectancy - 20 years	ASTM C 732, Accelerate Aging Test
Permeability - Minimum 0.4 perms	ASTM E 96

B. Lockdown Encapsulant

<u>Requirement</u>	<u>Test Standard</u>
Flame Spread - 25, Smoke Emission -50	ASTM E84
Combustion Toxicity Zero Mortality	University of Pittsburgh Protocol
Life Expectancy - 20 years	ASTM C 732, Accelerate

Permeability - Minimum 0.4 perms

Aging Test
ASTM E 96

2.2 POLYETHYLENE SHEETING

Shall be fire retardant and conform to National Fire Protection Act and the following performance requirements.

A. 4-mil polyethylene sheeting

<u>Requirement</u>	<u>Test Standard</u>
Flame Spread - 10	ASTM E84
Smoke Development - 70	ASTM E84
Char: 1050 MM Maximum Individual - Pass	NFPA 701
Drip Burn: 2 Sec Maximum Individual - Pass	NFPA 701
After Flame: 2 Sec Maximum Individual - Pass	NFPA 701

B. 6-mil polyethylene sheeting

<u>Requirement</u>	<u>Test Standard</u>
Flame Spread - 15	ASTM E84
Smoke Development - 75	ASTM E84
Char: 1050 MM Maximum Individual - Pass	NFPA 701
Drip Burn: 2 Sec Maximum Individual - Pass	NFPA 701
After Flame: 2 Sec Maximum Individual - Pass	NFPA 701

PART 3 EXECUTION

3.1 EQUIPMENT

Make available to the Owner or the Owner's Representative who are qualified to use, two complete sets of personal protective equipment as required herein for entry to the asbestos control area. Provide manufacturer's certificate of compliance for all equipment required to contain airborne asbestos fibers.

A. Respirators

Select respirators from those approved by the National Institute for Occupational Safety and Health (NIOSH), Department of Health and Human Services.

B. Protective Clothing

Provide personnel exposed to asbestos with disposable full body protective clothing, to include head coverings, gloves, and foot coverings. Provide disposable plastic or rubber gloves for comfort, but shall not be used alone. Make sleeves secure at the wrists, make foot coverings secure at the ankles, and make clothing secure at the neck by the use of tape.

C. Personal Decontamination Unit

Removal of the friable (regulated) materials by means of a NPE requires a decontamination unit, to include an equipment room, airlock, shower room, air lock, and clean room that complies with 29 CFR 1926.1101 and SCDES Regulation 61-86.1. See Figure 3.1.C for typical personal

decontamination unit:

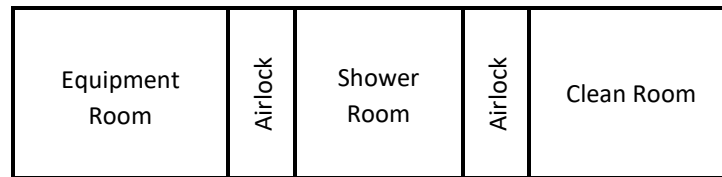


Fig. 3.1.C Personal Decontamination Unit

D. Alternative decontamination procedures shall comply with OSHA 1926.1101 and SCDES 61-86.1, and at a minimum, must consist of HEPA vacuuming and removing asbestos contaminated disposable protective clothing while still wearing respirators at the boundary of the asbestos work area and sealing in impermeable bags or containers for disposal. Dispose of protective clothing as asbestos waste. Do not wear work clothing between home and work.

1. Eye Protection

Provide goggles or safety glasses with side shields to personnel engaged in asbestos abatement operations when the use of a full-face respirator is not required.

2. Warning Signs and Labels

Provide warning signs at all approaches to the asbestos control areas. Locate signs at such a distance that personnel may read the sign and take the necessary protective steps required before entering the area. Provide labels and affix to all asbestos materials, scrap, waste, debris, and other products contaminated with asbestos. Appropriate signage in accordance with 29 CFR 1926.1101 and SCDES shall be established for all asbestos removals.

i. Warning Signs

Provide vertical format conforming to CFR 1926.200 and 29 CFR 1926.1101 minimum 20 by 14 inches displaying the following legend in the lower panel:

<u>Legend</u>	<u>Notation</u>
Danger	1-inch Sans Serif gothic or Block
Asbestos	1-inch Sans Serif gothic or Block
May Cause Cancer	1/4 inch Sans Serif gothic or Block
Causes Damage to Lungs	1/4 inch Sans Serif gothic or Block
Authorized Personnel Only	1/4 inch Sans Serif gothic or Block

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

ii. Warning Labels

Provide labels conforming to 29 CFR 1926.1101 of sufficient size to be clearly legible, displaying the following legend:

DANGER
 ASBESTOS
 MAY CAUSE CANCER
 CAUSES DAMAGE TO LUNGS
 AUTHORIZED PERSONNEL ONLY

3. Local Exhaust System
Provide a local exhaust system in friable or regulated asbestos control areas in accordance with ANSI Z9.2 and CFR 1926.1101 that will provide at least four air changes per hour inside the NPE. Local exhaust equipment shall be operated 24 hours per day, until the asbestos control area is removed and shall be leak proof to the filter and equipped with HEPA filters. Maintain a minimum pressure differential in the control area of minus 0.02 inches of water column relative to adjacent, unsealed areas and record a minimum four times daily. Provide continuous 24-hour per day monitoring of the pressure differential with a pressure differential automatic recording instrument. Filters on exhaust equipment shall conform to ANSI Z9.2 and UL 586. The local exhaust system shall terminate out of doors and remote from any public access or ventilation system intakes.
4. Tools
Vacuums shall be leak-proof to the filter and equipped with HEPA filters. Filters on vacuums shall conform to ANSI Z9.2 and UL 586. Do not use power tools to remove asbestos containing materials unless the tool is equipped with effective, integral HEPA filtered exhausts ventilation systems. Remove all residual asbestos from reusable tools prior to storage or reuse.

4.1 WORK PROCEDURE

- A. Perform asbestos removal and disposal in accordance with 29 CFR 1926.1101, 40 CFR 61 Subpart M, and SCDES Regulations 61-86.1 (Standards of Performance for Asbestos Projects) and as specified herein. Eating, smoking, drinking, or applying cosmetics shall not be permitted in the asbestos work or control areas. Personnel of other trades not engaged in the removal and demolition of asbestos containing materials shall not be exposed at any time to airborne concentrations of asbestos unless all the personnel protection provisions of this specification are complied with by the trade personnel. Shut down the heating, ventilating, and air conditioning system in the area of work, and seal the openings to the system prior to the commencement of asbestos work. Disconnect electrical service when wet removal is performed and provide temporary electrical service with verifiable ground fault circuit interrupter (GFCI) protection prior to the use of any water. If an asbestos fiber release or spill occurs outside the asbestos control area, stop work immediately, correct the condition to the satisfaction of the Owner or their Representative including clearance sampling, prior to resuming work.
- B. Protection of Existing Work to Remain
Perform work without damage or contamination of adjacent work. Where such work is damaged or contaminated as verified by the Owner's Representative using visual inspection or sample analysis, it shall be restored to its original condition or decontaminated by the contractor at no expense to the Owner as deemed appropriate by the Owner's Representative. This includes inadvertent spill of dirt, dust, or debris in which it is reasonable to conclude that asbestos may exist. When these spills occur, stop work immediately. Then clean up the spill at the Contractor's expense. When satisfactory visual inspection and air sampling results are obtained from the Owner's Representative work may proceed at the discretion of the Owner's Representative.
- C. Furnishing
The Owner and General Contractor will coordinate any appropriate furniture and equipment

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removal (i.e. desks, chairs, tables, cabinets, electronics, moveable lockers, etc.) before asbestos work begins.

D. Pre-cleaning

Wet wipe and HEPA vacuum all surfaces potentially contaminated with asbestos prior to establishment of an enclosure.

E. Enclosure

Negative pressure enclosures for friable (regulated) removals shall consist of critical barriers, wall, floor and ceiling polyethylene sheeting, where applicable. All polyethylene sheeting used shall be fire retardant. Surfaces scheduled for removal do not require polyethylene coverings. Contiguous five-stage decontamination unit shall consist of a workroom, airlock, shower with hot and cold water, airlock and clean room. Critical barriers and the decontamination coverings shall be constructed of a minimum 2-layer 6-mil polyethylene. Wall and ceiling coverings, where applicable, shall be constructed of a minimum 4-mil polyethylene. Floor coverings shall consist of two layers of 6-mil polyethylene sheeting. Negative pressure shall be established, maintained and recorded as stated herein. Provide local exhaust system in all asbestos control areas. Openings will be allowed in enclosures of asbestos control areas only for personnel and equipment entry and exit, the supply and exhaust of air for the local exhaust system and the removal of properly containerized asbestos containing materials. Replace local exhaust system filters as required to maintain the efficiency of the system. Establish designated limits for the asbestos work area with the use of continuous barriers and maintain all other requirements for asbestos control areas. If the quantity of airborne asbestos fibers monitored at the designated limits at any time exceed 0.01 fibers per cubic centimeter via Phase Contrast Microscopy (NIOSH 582), stop work, evacuate personnel in adjacent areas or provide personnel with approved protective equipment at the discretion of the Owner's Representative. If adjacent areas are contaminated as determined by the Owner's Representative, clean the contaminated area, monitor and visually inspect the area as specified herein. The glue, tape, fasteners, spray-glue, etc. used to secure polyethylene sheeting shall not leave a residue upon removal, and the Contractor is responsible for damage to substrate or paint finishes resulting from removal of such products.

F. Asbestos Handling Procedures

Remove material, allow for minimal accumulations and immediately place in 6-mil polyethylene disposal bags. No waste shall remain in the containment at the end of the day unless properly sealed in disposal bags or equivalent.

G. Site Inspection

While performing asbestos removal work, the Contractor shall be subject to on-site inspection by the Owner's Representative. If the work is in violation of specification requirements, the Owner's Representative may issue a stop work order to be in effect immediately and until deficiencies are corrected. Standby time and associated expenses shall be the responsibility of the Contractor.

H. Air Monitoring

The Owner's IH shall perform air monitoring as required by the SCDES Regulations 61-86.1. The air monitoring shall be performed by an individual licensed by the SCDES as an Air Sampler and the analysis for this project shall be by Phase Contrast Microscopy (PCM) NIOSH 7400 and Transmission Electron Microscopy (TEM) in accordance with SCDES Regulations

61-86.1.

I. Clean-up and Disposal

1. Housekeeping

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

2. Final Inspection and Air Clearance

i. When asbestos removal is complete, all asbestos waste is removed from the work-site, and final clean-up is completed, the Owner's IH and the Contractor's SCDES licensed Supervisor will visually inspect all surfaces within the work area for residual material or accumulated dust or debris. The Contractor shall re-clean all areas showing dust or residual materials. Encapsulant may not be applied or any of the work area components dismantled until an acceptable final inspection is conducted. Following an acceptable final inspection, the clearance air test shall be conducted while the work area remains under negative pressure and only the critical barriers and decontamination unit remain. The work area shall be maintained and not dismantled until the IH notifies the Contractor of acceptable air concentrations.

ii. Clearance testing shall be performed for friable (regulated) ACMs following a visual inspection of the work area by the Owner's IH and the site supervisor for the Contractor. Clearance testing shall not be performed until all visible debris is removed, the area dry, and polyethylene removed with exception to the critical barriers. Air clearance shall be performed via TEM in accordance with the SCDES Regulations 61-86.1. Clearance criteria for TEM analysis is a mean of 70 structures per millimeter squared for a five sample set, per work area in accordance with 40 CFR Part 763 of the AHERA. The Contractor shall be responsible for all costs and time delays associated with unacceptable clearance test results.

iii. Immediately following removal of critical barriers and the decontamination unit, the Owner's IH shall perform a visual inspection of the work area.

3. Title to Materials

All materials resulting from demolition work, except as specified otherwise, shall become the property of the Contractor and shall be disposed as specified in applicable local, state and federal regulations and herein.

4. Disposal of Asbestos

i. Procedure for Disposal

Collect asbestos waste, asbestos contaminated water, scrap, debris, bags, containers, equipment, and asbestos contaminated clothing which may produce airborne concentrations of asbestos fibers and place in sealed fireproof, waterproof, non-returnable containers (e.g. double 6-mil bags, cartons, drums or cans). Wastes within the containers must be wetted to ensure security of the material in case of container breaching. Affix a warning and Department of Transportation (DOT) label to each bag or use at least 6-mil thick bags with the approved warnings and

DOT labeling reprinted on the bag. The name of the waste generator and the location at which the waste was generated shall be clearly indicated on the outside of each container. Dispose of waste asbestos material at a SCDES approved asbestos landfill. For temporary storage, store sealed impermeable bags in asbestos metal dumpsters or containers. An area for interim storage of asbestos waste-containing metal dumpster or container will be assigned by the Owner's Representative. Metal dumpsters or containers in which asbestos waste is temporarily stored at the abatement site shall be lined with 6-mil polyethylene sheeting to prevent contamination and shall have doors and tops. The doors and tops shall be closed and locked except during loading or unloading asbestos waste. Procedure for hauling and disposal shall comply with 40 CFR 61, SUBPART M, and state, regional and local standards. Sealed plastic bags may be dumped from metal dumpsters or containers into the burial site unless the bags have been broken or aged. Unloading of metal dumpsters or containers by tipping or tilting is permitted without re-inspecting individual bags or provided there are no visible emissions. Following the removal of all containerized waste, polyethylene sheeting shall be removed and discarded in bags or drums along with contaminated cleaning materials and protective clothing.

- ii. After asbestos waste has been unloaded, the truck cargo area or waste container, including the floor, walls and ceiling, shall be decontaminated using wet methods or a vacuum equipped with a HEPA filter until no visible residue remains.

END OF PLAN

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GENERAL NOTES

- VERIFY FIELD CONDITIONS, DIMENSIONS, QUANTITIES, AND ASSOCIATED DETAILS. SUBMISSION OF THE BID ACKNOWLEDGES EXISTING CONDITIONS.
- PERFORM ASBESTOS ABATEMENT WORK IN ACCORDANCE WITH EPA 40 CFR 61 SUBPART M, OSHA 29 CFR 1926.1101 AND SCDES 61-86.1.
- THE CONTRACTOR SHALL COORDINATE THE WORK SCHEDULE AND ANY WEEKEND OR AFTER-HOURS WORK WITH THE OWNER.
- POLLUTION LIABILITY SHALL INCLUDE ABATEMENT AND TRANSPORTATION, SHALL BE OCCURRENCE BASED, AND WRITTEN ON A PROJECT BASIS WITH COVERAGE OF \$1,000,000 WITH A DEDUCTIBLE OF \$5,000 FOR ANY ONE OCCURRENCE. A PROJECT SPECIFIC INSURANCE CERTIFICATE SHALL BE PROVIDED LISTING THE OWNER AS AN ADDITIONAL INSURED.

ASBESTOS NOTES

- ASBESTOS CONTAINING ROOFING MATERIAL DEBRIS IS ACCUMULATED ON THE TOPSIDE OF NON-ASBESTOS ACOUSTICAL CEILING TILES, NON-ASBESTOS PLASTER CEILINGS, BATTEN INSULATION, DUCTWORK, AND VARIOUS HORIZONTAL SURFACES.
- ROOFING MATERIAL DEBRIS, CEILING TILES, BATTEN INSULATION AND FIBERBOARD/FLEXIBLE DUCTWORK SHALL BE REMOVED USING FRIABLE METHODS INSIDE A NEGATIVE PRESSURE ENCLOSURE (NPE), IN ACCORDANCE WITH THE SCDES REGULATIONS 61-86.1 AND OSHA 29 CFR 1926.1101.
- NON-ASBESTOS ACOUSTICAL CEILING TILES AND FIBERGLASS BATTEN INSULATION ARE ASSUMED TO BE CONTAMINATED BY ASBESTOS AND SHALL BE REMOVED AND DISPOSED USING FRIABLE METHODS INSIDE A NPE AND DISPOSED AS ASBESTOS WASTE.
- ASBESTOS CONTAINING ROOFING MATERIAL DEBRIS SHALL BE VACUUMED AND WET WIPED FROM THE TOPSIDE OF NON-ASBESTOS PLASTER CEILINGS TO REMAIN, DUCTWORK, STRUCTURAL STEEL, AND VARIOUS HORIZONTAL SURFACES ABOVE THE SUSPENDED CEILING THROUGHOUT THE SCHOOL.
- NON-ASBESTOS PLASTER CEILINGS SHALL NOT BE DAMAGED DURING REMOVAL OF ASBESTOS CONTAINING ROOFING MATERIAL DEBRIS. A CLEAR LOCK-DOWN ENCAPSULANT SHALL BE APPLIED TO THE TOPSIDE OF PLASTER CEILINGS FOLLOWING REMOVAL OF ROOFING MATERIAL DEBRIS.
- METAL SUSPENDED CEILING GRID SHALL BE WRAPPED WITH TWO LAYERS OF 6-MIL POLYETHYLENE SHEETING AND DISPOSED AS ASBESTOS WASTE OR CLEANED FREE OF ASBESTOS DEBRIS AND DISPOSED AS GENERAL CONSTRUCTION DEBRIS.
- FRIABLE ABATEMENT ACTIVITIES SHALL BE CONDUCTED INSIDE A NEGATIVE PRESSURE ENCLOSURE (NPE) IN ACCORDANCE WITH THE SCDES REGULATIONS 61-86.1 TO INCLUDE BUT NOT LIMITED TO A FIVE-STAGE DECONTAMINATION UNIT CONSISTING OF AN AMPLE SIZED CLEAN/CHANGING ROOM, AIRLOCK, SHOWER WITH HOT AND COLD RUNNING WATER, AIRLOCK, AND EQUIPMENT ROOM. EACH NPE SHALL HAVE NEGATIVE AIR FILTRATION FITTED WITH HIGH EFFICIENCY PARTICULATE AIR (HEPA) FILTERS, VIEWING PORT, WASTE LOAD-OUT, CRITICAL BARRIERS, PRESSURE DIFFERENTIAL MANOMETER, AND MAINTAIN CONTINUOUS NEGATIVE AIR PRESSURE TO A MINIMUM NEGATIVE 0.02 (-0.02) INCHES OF WATER

- WET METHODS SHALL BE USED DURING ALL FRIABLE REMOVAL ACTIVITIES. THE ACMS SHALL NOT BE ALLOWED TO ACCUMULATE, AND THE WORK AREA SHALL BE CLEANED AT THE END OF EACH SHIFT.
- ONSITE AIR MONITORING SHALL BE PERFORMED IN ACCORDANCE WITH SCDES REGULATIONS 61-86.1 AND SHALL BE PROVIDED BY THE OWNER.



NOTES

10 KING CHARLES CIRCLE
NEWINGTON ELEMENTARY SCHOOL
SUMMERVILLE, SOUTH CAROLINA

SCALE:
NTS
DATE:
11/6/2025
PROJECT NUMBER
25130131
FIGURE NO.
H-1

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REMOVE AND DISPOSE THE FOLLOWING ASBESTOS CONTAINING MATERIALS

-  ROOFING MATERIALS DEBRIS AND ASSOCIATED NON-ASBESTOS CEILING TILES LOCATED THROUGHOUT.
 - APPROXIMATELY 80,500 SQUARE FEET
-  DEBRIS ON TOPSIDE OF NON-ASBESTOS PLASTER CEILINGS;
NON-ASBESTOS PLASTER CEILINGS TO REMAIN

NOTE:

ASBESTOS ROOFING MATERIAL DEBRIS IS LOCATED ON THE TOPSIDE OF ACOUSTICAL AND PLASTER CEILINGS, BATTEN INSULATION, DUCTWORK, STRUCTURAL STEEL AND VARIOUS HORIZONTAL SURFACES THROUGHOUT.



ASBESTOS REMOVAL AND DISPOSAL

10 KING CHARLES CIRCLE
NEWINGTON ELEMENTARY SCHOOL
SUMMERVILLE, SOUTH CAROLINA

SCALE:

NTS

DATE:

11/6/2025

PROJECT NUMBER

25130131

FIGURE NO.

H-2