

Asbestos Abatement
Lincoln Hall, 2 Lincoln St., Essex Junction, VT

Instructions to Bidders:

1. Invited contractors are required to attend a Pre-Bid Conference and walk through of the site on Friday, June 21, 2024 at 10:00 AM. This conference is mandatory for those contractors wishing to submit a bid. This will be the only opportunity to visit the site.

2. By submitting a bid package, the contractor acknowledges that he or she has investigated and satisfied himself as to the conditions affecting the project including but not limited to physical conditions of the site which may bear upon site access, handling and storage of tools, equipment and materials, access to water, electricity, and other utilities, and worker safety considerations. Any failure by the bidder to acquaint him or herself with available information will not relieve the bidder from the responsibility for estimating properly the difficulty and/or cost of successfully performing the work. Owner and Owners Representative shall not be responsible for any conclusions or interpretations made by bidder on the information made available by Owner or Owner's Representative.

3. All contractors shall have the opportunity to seek information or clarification concerning the project prior to the bid submission deadline. Please direct all questions to Mr. John P. Madigan of K-D Associates, Inc. K-D Associates, Inc. shall issue any formal Addendum as necessary.

4. Contractor's bids will be delivered via mail or in person to The City of Essex Junction by 4:00 PM on Monday, July 8, 2024. Please note "2 Lincoln Renovation Bid" on the envelope. **Bids may be placed in the external drop box attached to the building on Monday, July 8th only. The office will be in the process of moving on this day. On all other dates, bids must be handed to the clerk during regular business hours. Bids received by fax or email will not be accepted.**

5. Bids will be publicly opened on Tuesday, July 9, 2024 at 9:00 AM. Bids will be reviewed and staff recommendations made to the City Council on July 17, 2024. Contractor selection shall be determined based on pricing and ability to perform quality work in a timely manner. The Owner reserves the right to reject any and all bids, to accept or reject any part of any bid, to waive any and all informalities, and to accept the bid that appears to be in the best interest of the Owner.

End of Instructions

Bid Proposal - Asbestos Abatement
2 Lincoln Street, Essex Junction, VT 05452

To: City of Essex Junction
2 Lincoln Street
Essex Junction VT 05452

From: Name of Contractor: _____
Address: _____
Contact Person: _____
Phone Number: _____

The undersigned agrees to provide all labor, materials, equipment, and services to execute and complete the work described in the Scope of Work dated May 29, 2024 titled General Specifications for the Abatement of Asbestos and Asbestos Containing Materials from the property located at 2 Lincoln Street in Essex Junction, Vermont and in accordance with the Specifications, including all addenda. The undersigned acknowledges the right of the Owner to accept any proposals, to reject any or all proposals, or to waive any formalities. In connection with the project for which this bid is entered, the undersigned certifies that he/she is familiar with the contents of the Scope of Work, and that he/she has examined the site and accepts the existing conditions. The undersigned further agrees to enter into and execute a contract if awarded on the basis of this proposal.

1. The proposed contract price to provide work as described in the Scope of Work dated May 29, 2024 and any addendum items is:

_____ Dollars. \$ _____
(written) (numbers)

Signed: _____ Date: _____

Bidder acknowledges receipt of Addendum dated _____, and the prices above include all addendum items.

End of Proposal

General Specifications

for the

Abatement of Asbestos-Containing Materials

from

**Lincoln Hall
2 Lincoln Street
Essex Junction, VT 05452**

Prepared for:

**City of Essex Junction
2 Lincoln Street
Essex Junction VT 05452**

Prepared by:

**K-D Associates, Inc.
41 IDX Drive, Suite 209
South Burlington, Vermont 05452**

Project Number:

13055-002

May 29, 2024



KD ASSOCIATES, INC.

Environmental Consulting & Contracting

41 IDX Drive, Suite 209, South Burlington, Vermont 05403-7757 www.kdassociatesinc.com

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GENERAL SPECIFICATIONS

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Specifications for the Abatement of Asbestos Containing Materials

Lincoln Hall, 2 Lincoln Street, Essex Junction, Vermont

Part I - GENERAL

1.01 SCOPE OF WORK:

A. This scope of work describes the specifications for removing asbestos containing vinyl floor tile, sheet vinyl flooring, and textured ceiling from selected areas of Lincoln Hall, 2 Lincoln Street, Essex Junction, Vermont.

B. The Asbestos Control area addressed in this Scope of Work is defined on the attached drawing. Abatement work will be performed in accordance with all existing Federal, State and local directives as annotated in the General Specifications.

C. The Abatement Contractor shall provide all labor and materials necessary to properly remove and dispose of the following materials:

(1) Approximately 675 sq. ft. of asbestos containing sheet vinyl flooring from the basement stairway and second floor meeting room as further defined in the attached drawing.

(2) Approximately 720 sq. ft. of asbestos containing vinyl floor tile (white and brown, white and black) from various rooms on the second floor as further defined in the attached drawing.

(3) Approximately 800 sq. ft. of asbestos containing textured ceiling material from various rooms on the second floor as further defined in the attached drawing.

D. Execution of this work shall be in accordance with all applicable directives and Part III of this specification.

E. Alternative work practices requested in accordance with section 2.6 of the Vermont Regulations for Asbestos Control must be approved prior to the start of work.

F. The asbestos abatement work is to be completed by October 30th, 2024. Work can start as early as July 15, 2024.

1.02 INSURANCE:

Proof of the following mandatory insurance is required:

A. \$1,000,000.00 Comprehensive General Liability including asbestos related activities.

B. Workers Compensation per State Statute.

C. \$500,000.00 Auto Liability including hired and non-owned liability.

1.03 DESCRIPTION OF WORK:

All personnel, labor, material, services, insurance, permits, and equipment will be provided in accordance with the requirements of the U.S. Environmental Protection Agency (EPA), State of Vermont Regulations for Asbestos Control Part V, Title 26 Effective Date: February 9, 1987 As Amended: November 1995, and Vermont Safety and Health Standards for General Industry (VOSHA). The work covered by this section includes the procedures and equipment required to protect workers and occupants of the building or area, or both, from contact with airborne asbestos fibers.

1.04 TERMINOLOGY:

A. *Abatement* - Procedures to control fiber release from asbestos containing materials.

B. *Aggressive Sampling* - The use of forced air equipment such as leaf blowers to dislodge free fibers, then slow speed fans to keep the fibers suspended during the sampling.

C. *Air lock* - A system for permitting ingress or egress without permitting air movement between a contaminated area and a uncontaminated area, typically consisting of two curtained doorways at least 6 feet (2 meters) apart.

D. *Air Monitoring* - The process of measuring the fiber content of a known volume of air collected during a specific period of time. The procedure to be utilized for asbestos detection is NIOSH Standard Analytical Method for Asbestos method 7400. All sample analyses shall be by Phase Contrast Microscopy (PCM). For clearance air monitoring, electron microscopy methods may be utilized when a lower detectability and a specific fiber identification are required.

E. *Air Sampling Professional* - The professional contracted or employed to supervise and/or conduct air monitoring and analysis. An Air Sampling Professional may be an engineer, architect, chemist, environmental scientist or other trained professional and must be a Vermont Certified Asbestos Consultant and must have actual field experience in asbestos air monitoring.

F. *Amended Water* - Water to which a chemical wetting agent has been added to improve penetration.

G. *Area Monitoring* - Sampling of airborne asbestos fiber concentrations within the asbestos control area and outside the asbestos control area which is representative of the airborne concentrations of asbestos fibers which may reach the breathing zone.

H. *Asbestos Control Area* - An area where asbestos removal operations are performed which is isolated by physical barriers to prevent the spread of asbestos dust, fibers or debris.

I. *Asbestos Fibers* - Asbestos fibers having an aspect ratio of 3:1 and longer than 5

micrometers.

J. *Authorized Visitor* - Any representative of a regulatory agency having jurisdiction over this project.

K. *Clean Room* - An uncontaminated area or room that is part of the decontamination enclosure system, with provisions for storage of workers street clothes and protective equipment.

L. *Competent Person* - As more completely defined in OSHA 29 CFR 1910.101, one who is capable of identifying existing suspect asbestos, supervising and monitoring all aspects of asbestos abatement and removal.

M. *Curtained Doorway* - A device to allow ingress or egress from one room to another while permitting minimal air movement between the rooms, typically constructed by placing two overlapping sheets of plastic sheeting over an existing temporarily framed doorway, securing each along the top of the doorway, securing the vertical edge of one sheet along one vertical side of the doorway, and securing the vertical edge of the other sheet along the opposite side of the doorway. Two curtained doorways spaced a minimum of 6 feet (2 meters) apart form an airlock.

N. *Decontamination Enclosure System* - A series of connected rooms, typically with curtained doorways between any adjacent rooms, for the decontamination of workers or of materials and equipment. A decontamination enclosure system shall typically contain a clean room, shower, and equipment room.

O. *Encapsulant (sealant)* - A liquid material which can be applied to asbestos containing material and which controls the possible release of asbestos fibers from the material either by creating a membrane over the surface (bridging encapsulant) or by penetrating into the material and binding its components together (penetrating encapsulant).

P. *Encapsulation* - All herein specified procedures necessary to coat all asbestos containing materials with an encapsulant to control the possible release of asbestos fibers into the ambient air.

Q. *Enclosure* - All herein specified procedures necessary to complete enclosure of all asbestos containing materials behind airtight, impermeable, and permanent barriers.

R. *Equipment Room* - A contaminated area or room that is part of the decontamination enclosure system, with provisions for storage of contaminated clothing or equipment.

S. *Excursion Limit* - An airborne concentration of asbestos fibers of 1.0 f/cc as a 30-minute Time Weighted Average (TWA).

T. *Fixed Object* - A unit of equipment or furniture in the work area which cannot be removed from the work area, and which is to be excluded from the scope of the asbestos abatement work.

U. *Friable Asbestos Material* - Material that contains more than 1% of asbestos, which can be crumbled, pulverized, or reduced to powder by hand pressure when dry.

V. *HEPA Filter* - A high efficiency particulate absolute (HEPA) filter capable of trapping and retaining 99.97% of asbestos fibers greater than 0.3 micron in diameter.

W. *HEPA Vacuum Equipment* - High efficiency particulate air filtered vacuuming equipment with a filter system capable of controlling and retaining asbestos fibers. Filters should be of a 99.97% efficiency for retaining fibers 0.3 microns in diameter.

X. *Impermeable Container* - An air-tight and water-tight container used to store asbestos containing waste materials for disposal.

Y. *Movable Object* - A unit of equipment or furniture in the work area that can be removed from the work area.

Z. *Plastic Sheeting* - Polyethylene sheeting of at least 6 mil thickness.

AA. *Surfactant* - A chemical wetting agent added to water.

1.05 APPLICABLE DOCUMENTS:

Applicable reference documents, regulations and standards are listed below. The current issue of each document shall govern. Where conflict among requirements or with these specifications exists, the more stringent requirements shall apply. This list is for reference only and is not all-inclusive. All applicable Federal, State, county and local regulations shall pertain.

U. S. Environmental Protection Agency Regulations for Asbestos:

-40 CFR Part 61 Subparts A and M: EPA National Emission Standards for Hazardous Air Pollutants (NESHAPS) Final Rule, November 20, 1991 (EPA)

-40 CFR Part 763.120, 121: EPA Regulations Governing Asbestos Abatement Projects

-40 CFR Part 763 Asbestos Containing Materials in Schools Final Rule and Notice

EPA Publication Number 560/5-85-024: Guidance for Controlling Friable Asbestos Containing Materials in Buildings

EPA (NIOSH) Publication Number 560-OPTS-86-001: A Guide to Respiratory Protection for the Asbestos Industry

U. S. Department of Labor - Occupational Safety and Health Administration (OSHA) Regulations for Asbestos:

-29 CFR Part 1910.1001: OSHA Asbestos Regulations for General Industry

-29 CFR Part 1910.134: OSHA General Industry Standard for Respiratory Protection

-29 CFR Part 1926.1101: OSHA Asbestos Regulations for the Construction Industry

-29 CFR Part 1910.2: Access to Employee Exposure and Medical Records

-29 CFR Part 1910.1200: Hazard Communication

National Institute for Occupational Safety and Health (NIOSH):

-DHEW (NIOSH) Publication No. 76-189: A Guide to Industrial Respiratory Protection

American National Standards Institute:

-ANSI Standard Z9.2-79: Fundamental Standard Governing the Design and Operation of Exhaust Systems

-ANSI Standard Z88.2-92: Respiratory Protection and Practices

State of Vermont Regulations for Asbestos Control Part V, Title 18, Chapter 26 of the Division of Environmental Health of the Agency of Human Services Effective Date February 9, 1987 As Amended: November 1995

VOSHA Safety and Health Standards for General Industry (29 CFR 1910)

1.06 SUBMITTALS AND NOTICES:

The following submittals and notices will be maintained in an on-site binder:

A. Written notice shall be provided to the Division of Environmental Health for the State of Vermont in Burlington, Vermont and the Environmental Protection Agency notifying them of a proposed asbestos abatement project and pay all applicable fees.

B. Submit documentation that each employee has had instruction by a Vermont certified training institution on the hazards of asbestos exposure, on use and fitting of respirators, on protective dress, on use of showers, on entry and exit from work areas, and on all aspects of work procedures and protective measures and understands this instruction.

C. Submit a written respiratory protection program in accordance with OSHA 29 CFR 1910.134.

D. Submit documentation of respirator fit testing for all employees and agents who must enter the work area. This fit testing shall be in accordance with qualitative and/or quantitative procedures as detailed in OSHA 29 CFR 1926.1101.

E. Submit documentation from a physician that all employees or agents who may be exposed to airborne asbestos in excess of the permissible exposure level of 0.1 f/cc have been medically monitored to determine whether they are physically capable of working while wearing the respirator required without suffering adverse health effects.

F. Copies of all charts, logs, manifests, and receipts listed in paragraph 3.09.

1.07 PRE-PERFORMANCE REQUIREMENTS:

Prior to beginning work, danger signs shall be posted in and around the work area to comply with OSHA regulation 29 CFR 1926.1101 requirements.

1.08 PERSONNEL PROTECTION:

A. Prior to commencement of work, the workers shall be instructed and shall be knowledgeable in the areas described in section 1.08.

B. Respirator Program: A respirator program shall be established, as required by ANSI 288.2 and 29 CFR 1910.134.

C. As a minimum level of respiratory protection during the abatement phase of this work, negative pressure, half face HEPA filtered respirators shall be worn.

D. Fit Testing

(1) Workers must perform positive and negative air pressure fit check each time respirator is put on, whenever the respirator design so permits. Powered air purifying respirators shall be tested for adequate flow as specified by the manufacturer.

(2) Workers shall be given a qualitative fit test in accordance with procedures detailed in OSHA 29 CFR 1926.1101 for all respirators to be used on this abatement project. An appropriately administered quantitative fit test may be substituted for the qualitative fit test.

(3) No one wearing a beard shall be permitted to don a respirator and enter the work area except when hoods or helmets are worn instead of facepieces.

E. Workers shall be provided with sufficient sets of protective full body clothing. Such clothing shall consist of full body coveralls, headgear and footwear. Eye protection and hard hats shall be provided as required by applicable safety regulations. Reusable type protective clothing and all footwear shall be left in the contaminated equipment room until the end of the asbestos abatement work, at which time items shall be disposed of as asbestos contaminated waste or shall be thoroughly

cleaned of all asbestos or asbestos containing materials. Disposable type protective clothing, headgear, and footwear may be provided.

F. Authorized visitors shall be provided with suitable protective clothing, headgear, eye protection and footwear.

G. The decontamination and work procedures shall be posted in the equipment room and the clean room, as described in section 1.08 of these specifications.

H. Medical Monitoring

(1) Medical Monitoring must be provided to any employee who may be exposed to asbestos in excess of the permissible exposure level of 0.1 f/cc during any phase of the abatement project.

(2) Medical Monitoring shall include at a minimum:

a. A work/medical history to elicit symptomatology of respiratory disease.

b. A chest x-ray as deemed necessary by a physician (posterior - anterior, 14X17 inches) evaluated by a certified B-reader, a board eligible/certified radiologist, or an experienced physician with known expertise in pneumoconioses, as specified in OSHA 1926.1101.

c. A pulmonary function test, including forced vital capacity (PVC) and forced expiratory volume at one second (FEV), administered and interpreted by a certified pulmonary specialist.

(3) Employees shall be evaluated by a physician to determine their capacity to work safely while breathing through the added resistance of a respirator. Examining physicians shall be aware of the nature of respiratory protective devices and their contributions to breathing resistance. They shall also be informed of the specific types of respirators the employees shall be required to wear and the work they will be required to perform, as well as special workplace conditions such as high temperatures, humidity, and chemical contaminants to which they may be exposed.

1.09 WORKER PROTECTION PROCEDURES:

A. Each worker and authorized visitor shall, upon entering the job site: remove street clothes in the clean change room and put on a respirator with new filters and clean protective clothing before entering the work area.

B. Each worker and authorized visitor shall, each time they leave the work area: remove gross contamination from clothing before leaving the work area; proceed to the equipment room and remove all clothing except respirators; still wearing the respirator proceed to the showers; clean the outside of the respirator with soap and water while showering; remove the respirator; thoroughly shampoo and wash; remove filters and wet them and dispose of the filters in the container provided; and wash and rinse the inside of the respirator.

C. Following showering and drying off, each worker and authorized visitor shall proceed directly to the clean change room and dress in clean clothes at the end of each workday, or before eating, or drinking. Before re-entering the work area from the clean change room, each worker and authorized visitor shall put on a clean respirator with new filters and shall dress in clean protective clothing except workers intending to re-wear contaminated protective clothing stored in the equipment room shall enter the equipment room wearing only respirators.

D. Contaminated footwear shall be stored in the equipment room when not in use in the work area. Upon completion of asbestos abatement, dispose of footwear as contaminated waste or clean thoroughly inside and out using soap and water before removing from work area or from equipment and access area. Contaminated protective clothing shall be stored in the equipment room for reuse or placed in receptacles for disposal with other asbestos contaminated materials.

E. Workers shall not eat, drink, smoke, apply make-up, or chew gum or tobacco at the worksite except in the so designated areas.

F. Workers shall be fully protected with respirators and protective clothing from the time of first disturbance of asbestos containing or contaminated materials, prior to commencing actual asbestos abatement and until final clean-up is completed.

1.10 SUPPLEMENTAL CONDITIONS:

A. Existing driveways and entrances serving the premises shall be kept clear and available at all times. The site is not to be unreasonably encumbered with materials and equipment.

B. Lock automotive type vehicles, such as passenger cars and trucks and other mechanized or motorized construction equipment when parked and unattended, so as to prevent unauthorized use. Do not leave such vehicles or equipment unattended with the motor running or the ignition key in place or accessible to unauthorized persons.

C. Workers shall avoid causing noise at nuisance levels outside the work area. Vehicular traffic, particularly waste hauling vehicles, shall be scheduled as close to normal working hours as possible.

D. One fully charged fire extinguisher, properly rated, a first aid kit and thermometer shall be on site at all times.

E. Post outside of the decontamination unit telephone numbers and locations of emergency services, including but not limited to fire, ambulance, doctor, hospital, police, power company, telephone company.

Part II - MATERIALS AND EQUIPMENT

2.01 MATERIALS:

A. Deliver all materials in the original packages, containers, or bundles bearing the name of the

manufacturer and the brand name.

1. Store all materials subject to damage off the ground, away from wet or damp surfaces, and under cover sufficient to prevent damage or contamination.

2. Damaged or deteriorating materials shall not be used. Materials that become contaminated with asbestos shall be disposed of in accordance with the applicable regulations governing disposal of asbestos contaminated waste.

B. Plastic sheeting shall be true grade 6 mil thickness unless otherwise specified in this specification.

C. Tapes shall be capable of sealing joints of adjacent sheets of plastic and capable of adhering under both dry and wet conditions, including use of amended water.

D. Surfactant (wetting agent) shall be used and mixed in accordance with manufacturer's instructions.

E. Impermeable containers shall be suitable to receive and retain any asbestos containing or contaminated materials until disposal at an approved site. The containers shall be labeled in accordance with OSHA regulation 29 CFR 1910.1001.

F. Danger labels and signs - As required by OSHA regulation 29 CFR 1910.1001.

G. Other Materials - Provide all other materials, such as lumber, nails and hardware, which may be required to construct and dismantle the decontamination area and the barriers that isolate the work area.

2.02 TOOLS AND EQUIPMENT:

A. Sufficient tools, suitable for asbestos removal and to perform the asbestos removal work in a professional and workmanlike manner, shall be provided.

B. All required equipment to properly perform the asbestos removal work in accordance with the specifications and industry standards shall be provided.

Part III - EXECUTION

3.01 GENERAL:

Due to the extremely hazardous nature of the materials being removed, no deviations from the procedures herein will be permitted. Deviations or violations of specification provisions will be the cause for immediate stoppage of work.

3.02 PREPARATION:

A. General: Preparation of the work areas for asbestos abatement work shall be the Contractor's responsibility, and the proper completion of each item shall be verified with smoke test methods by the Asbestos Consultant.

B. Work Areas:

(1) Shut down and lock out electric power to all work areas. The Contractor shall provide a temporary hook-up for electric power and lighting or draw from an acceptable source outside of the work area. The Contractor shall insure safe installation (including ground faulting) of temporary power sources and equipment by compliance with all applicable electric code requirements and OSHA requirements for temporary electrical systems. Electric power used by the Contractor for this project shall be furnished by the **Owner**. The Contractor shall provide the services of a Licensed Master Electrician to assist with the hook up of Contractors electric panel(s) if needed.

(2) Shut down and lock out all heating, cooling and air conditioning system (HVAC) components that are in, supply or pass through the work area.

(3) Provide drainage connection from shower room waste water filter to discharge into the sewer system. Water used by the Contractor for this project shall be furnished by the Owner. Hot water shall be supplied by the Contractor at a minimum temperature of 100 F.

(4) Any deviations from the procedures set forth in 3.02B (2), (3) and (4) that may be required must be agreed to in writing by the Contractor and the Owner and the Asbestos Consultant prior to initiating any changes in procedures.

(5) All trash, debris, loose and movable objects not required for the asbestos abatement work will be removed from the work area prior to beginning work. Movable objects will be cleaned using HEPA vacuum equipment and/or wet cleaning methods prior to removal.

(6) Pre-cleaning fixed objects within the proposed work areas, using HEPA vacuum equipment and/or wet cleaning methods as appropriate, and enclose with true grade 6 mil plastic sheeting sealed with tape.

(7) Clean the proposed work areas using HEPA vacuum equipment and/or wet cleaning methods as appropriate. Do not use methods that raise dust, such as dry sweeping or vacuuming with equipment not equipment with HEPA filters.

(8) Seal off all openings, including but not limited corridors, doorways, skylights, ducts, grills, diffusers, and any other penetrations of the work area, with true grade plastic sheeting 6 mil in thickness and seal with tape.

(9) Construct isolation barriers to completely enclose the work area by application of a single layer of true grade plastic sheeting 6 mil in thickness sealed with tape or by other equivalent means approved by the Owner and the Asbestos Consultant in accordance with the Contractor's approved asbestos abatement plan. Where needed, barriers of plywood or other structural materials will be constructed to isolate the area and to adequately support the plastic sheeting.

(10) Install and activate HEPA negative air filtration units capable of changing the air at least four (4) times an hour and vent to the outside of the facility. Activate pressure differential monitor to ensure negative pressure of at least 0.020 inches of water column of negative pressure at all times.

C. Decontamination Enclosure Systems:

(1) The Contractor shall provide or construct suitable framing as required to provide decontamination enclosure systems as shown in OSHA 29 CFR 1926.58. Existing rooms may be used and connected with framed-in tunnels, lined with true grade plastic sheeting 6 mil thickness, sealed with tape at all lap joints in the plastic for all enclosure and decontamination enclosure system rooms. Prefabricated units may be utilized if they have been approved by the Asbestos Consultant.

(2) In all cases the access between contaminated and non-contaminated rooms or areas shall be through an airlock. In all cases access between any two rooms between the decontamination enclosure systems be through a curtained doorway or other equivalent device. Where curtained doorways are specified herein, equivalent devices may not be used unless approved by the Asbestos Consultant.

(3) Construct the decontamination enclosure system contiguous to the work area consisting of three totally enclosed chambers as follows:

a. An equipment room with two curtained doorways, one to the work area and one to the shower room.

b. A shower room with two curtained doorways, one to the equipment room and one to the clean room. The shower room shall contain at least one shower with hot and cold or warm water. Careful attention shall be paid to the shower enclosure to ensure against leaking of any kind. Ensure a supply of soap at all times in the shower room. Shower water shall be drained, collected, and filtered through a system with at least 5 Micron particle size collection capability and shall then be discharged only to the sanitary sewer system. Deviations will not be allowed.

c. A clean room with two curtained doorways one into the shower and one entrance or exit to non-contaminated areas of the building. The clean room shall have sufficient space for storage of the workers' street clothes, towels, and other non-contaminated items.

D. Maintenance of Enclosure Systems:

(1) Ensure that barriers and plastic linings are effectively sealed and taped. Repair damaged barriers and remedy defects immediately upon discovery.

(2) Visually inspect enclosures at the beginning of each work period.

(3) Use smoke methods to test effectiveness of barriers when directed by the Asbestos Consultant.

3.03 ASBESTOS REMOVAL:

A. Prepare site in accordance with section 3.02.

B. All necessary worker safety precautions commonly observed in the construction workplace and in compliance with OSHA and EPA regulations shall be carefully observed during all asbestos removal work.

C. Spray asbestos containing material with amended water, using spray equipment capable of providing a "mist" application to reduce the release of fibers. Saturate the asbestos material sufficiently to wet it to the substrate without causing excess dripping. Spray the asbestos material repeatedly during the work process to maintain wet condition and to minimize asbestos fiber dispersion.

D. Asbestos containing materials will be removed with hand tools or by other appropriate methods. Methods used for removal shall be selected so as not to cause unnecessary dispersion of asbestos fibers into the air. Insofar as possible, removed asbestos containing materials will be placed directly into polyethylene bags or other containers and not dropped onto the drop clothes for later collection. All removed asbestos contaminated materials shall be properly wetted at all times until collected into containers.

E. Polyethylene bags shall not be overfilled. Double bagging of waste material is required. Bags shall be sealed when full. They should be securely sealed to prevent accidental opening and leakage by tying tops of bags in an overhand knot or by taping in gooseneck fashion. Do not seal bags with wire cord. Bags shall be decontaminated on exterior surfaces by wet cleaning and HEPA vacuuming in a designated part of the work area adjacent to the decontamination enclosure system, before being moved into the washroom.

F. After completion of stripping work all surfaces from which asbestos has been removed shall be wet brushed and/or wet sponged or cleaned by an equivalent method to remove all visible material. During this work the surfaces being cleaned shall be kept wet. (Note: Steel wire brushed are not recommended for this work, due to the tendency to break asbestos fibers into small particles which become airborne.)

G. After completion of the removal of all asbestos containing material in accordance with the plans and specifications, the work area will be inspected to determine that all required asbestos removal has been accomplished.

H. Clean up shall be in accordance with sections 3.04.

I. Site Inspection: The work site will be subject to on-site inspection. If the work is in violation of specification requirements, work will stop until the violation is resolved.

3.04 CLEAN-UP:

A. HVAC vents shall remain sealed and all HEPA filtration negative air pressure systems, air filtration equipment, work area barriers and decontamination enclosures shall remain in service until

after the approval for the release of the work area.

B. All equipment used in the work area shall be included in the clean-up and shall be removed from the work areas, via the decontamination enclosure system, at an appropriate time in the cleaning sequence. Workers' contaminated protective clothing and footwear and any other debris will be placed in polyethylene bags and disposed of as asbestos contaminated waste prior to the removal of the asbestos enclosure system.

C. All surfaces in the work area shall be cleaned with water and/or with HEPA vacuum equipment. After completion of the cleaning operation, a complete visual inspection of the work area will be performed to ensure that the work area is visually free of asbestos containing material debris.

D. If the inspection reveals any visible accumulations of debris in the work area, the cleaning will be repeated until the work area is in compliance.

E. A final visual inspection will be conducted by an independent, Vermont certified project monitor.

3.05 DISPOSAL OF ASBESTOS CONTAINING MATERIALS AS SPECIAL WASTE:

A. All asbestos contaminated materials and wastes generated by this project shall be removed and disposed of appropriately. All such material shall be placed in sealed and labeled containers in so far as possible, and any asbestos contaminated materials which cannot be placed in containers shall be double wrapped in plastic and taped prior to removal.

B. Removal and disposal of sealed and labeled containers of contaminated waste should be accomplished as the work progresses, to prevent exceeding available storage capacity on site.

C. Used protective clothing, footwear, trash or other debris from the work area which have been placed in plastic bags or other receptacles for disposal shall not at any time be removed and stored outside the asbestos control area. These items will be considered to be asbestos contaminated waste and will only be removed from the asbestos control area for immediate transportation to the authorized asbestos disposal site.

D. Disposal shall be at an authorized disposal site, as per prior notification, and carried out in accordance with the requirements of the disposal site authority. Documentation regarding disposal shall be submitted.

E. Transportation of all asbestos contaminated materials generated by this project from the work site to the disposal site must be in a completely enclosed cargo truck which, when closed, has no openings to the outside. In the event of accidental damage to any of the containers or plastic wrappings, en route, which could allow asbestos fibers to escape into the cargo enclosure, the cargo enclosure must be considered as an asbestos contaminated room. The cargo area must be completely sealed off with plastic sheeting and thoroughly cleaned in accordance with all safeguards and provisions as set forth in these specifications. Transportation of all asbestos containing materials will be in accordance with all applicable Vermont Agency of Transportation regulations.

3.06 AIR QUALITY AND AIR MONITORING:

A. The Contractor shall be responsible for assuring that the quality of the air environment is maintained at satisfactory levels throughout the contract performance period. Included in the **Asbestos Consultant** responsibilities are: inspection of the barriers and decontamination enclosure systems, negative air pressure systems within the work area while work is in progress, air sampling, air sampling analysis, visual inspections of the asbestos abatement work area and other duties as may be jointly agreed upon, in writing, between the Owner and the Asbestos Consultant.

B. Sampling during the performance of the abatement project shall be accomplished as follows:

(1) Any occupied areas adjacent to asbestos removal project work areas may be periodically air monitored for ambient air asbestos concentrations.

(2) Any time during the performance of the asbestos removal work that any of the following conditions occur, all asbestos removal work shall be stopped, and endangered personnel evacuated from the affected areas. The Asbestos Consultant shall be notified immediately, and the Contractor shall take immediate action to correct the adverse conditions.

a. Airborne fiber concentrations greater than 0.01 f/cc in occupied areas adjacent to the asbestos removal contract work area.

b. Airborne fiber concentrations inside the work area which when divided by the NIOSH rated protection factor for any respirator equipment being used within the work area would result in fiber concentrations inside the respirator greater than 0.01 f/cc.

(3) Personal air monitoring shall be the responsibility of the Contractor. Personal air monitoring shall be accomplished in accordance with 29 CFR 1926.1101. Personal air samples shall be collected at a sampling rate between 0.5 and 2.5 LPM throughout an 8-hour work period, in accordance with Appendices A and B of OSHA 1926.1101.

(4) Monitoring Results: Fiber counting shall be completed, and the results reviewed by the Asbestos Consultant within 24 hours. The Asbestos Consultant shall notify the Owner immediately of any exposures to asbestos fibers in excess of the acceptable limits.

C. Clearance Air Monitoring: Upon successful completion of the final visual inspection, the Asbestos Consultant shall collect clearance air samples utilizing aggressive collection methods in accordance with the Vermont Regulations for Asbestos Control (VRAC).

Clearance air samples shall be analysed by a Vermont certified analytical service and analyst using the Transmission Electron Microscopy (TEM) method. The abatement work area shall be considered adequately clean at the completion of a comprehensive visual inspection (i.e., no visible dust, dirt, debris, or residue in the abatement work area), and after all clearance air samples which were collected indicate acceptable fiber levels at the time of air sample collection in accordance with the

State of Vermont Regulations for Asbestos Control. Contractor shall reclean the entire abatement work area for retesting if the above referenced clearance air monitoring criteria is not met.

All additional costs for recleaning of the abatement work area, additional air sample collection, additional air sample analysis, and professional services related to completion of the Project after the initial procedure has been performed, shall be the responsibility of Contractor. All additional professional services required to complete the Project shall be performed by Owner's Representative. Re-analysis of initial clearance air samples using an alternative analysis methodology other than specified shall not be acceptable for project clearance.

3.07 CONTRACT PERFORMANCE RECORDS:

A. After the completion of the abatement work and final clean-up, copies of all submittal's records, logs, reports, receipts, correspondence, etc. applicable to this project shall be submitted to the owner or the owner's representative.

END OF SPECIFICATIONS

11 June 2024

Addendum No. 1

To: GENERAL SPECIFICATIONS for the Abatement of Asbestos-Containing Materials from Lincoln Hall, 2 Lincoln Street, Essex Junction, Vermont dated 29 May 2024.

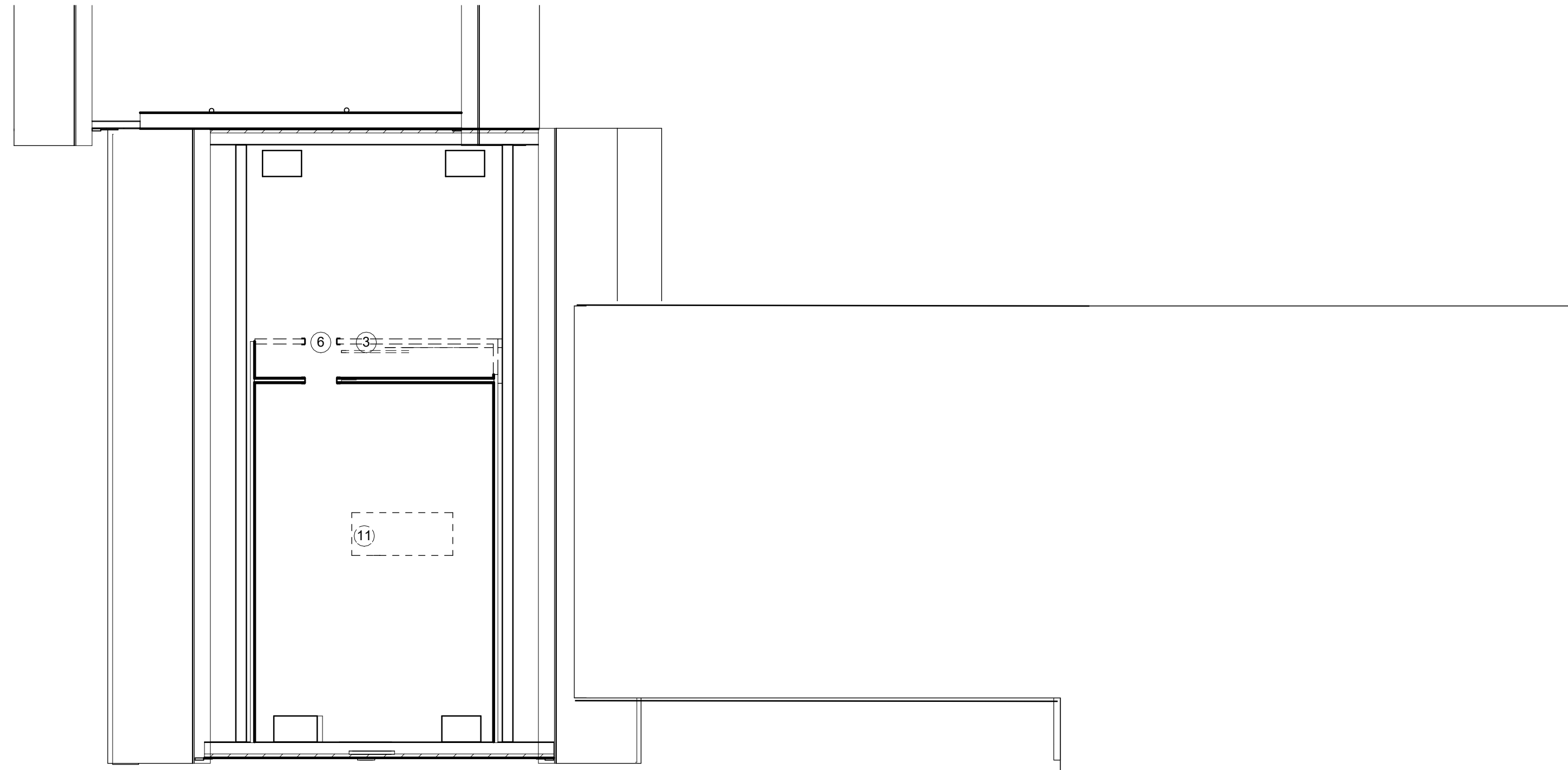
This information shall be considered as part of the design document. All bidders shall acknowledge receipt of this addendum on their bid form.

1. The wood stair treads beneath the asbestos containing sheet vinyl in the stairs to the basement may be removed during the abatement process if helpful in the abatement process.
2. The final visual inspection and required air clearance(s) will be the responsibility of the owner.
3. The “press board” underlayment beneath the vinyl floor tile on the upper floor may be removed as part of the abatement process.
4. The public opening of the submitted bids will be July 9, 2024.
5. Section 1.02 Insurance, Part A. shall be changed to meet the requirement shown below.

COVERAGES		CERTIFICATE NUMBER: 4.12.2016		REVISION NUMBER:		
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.						
INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> GENERAL LIABILITY					EACH OCCURRENCE \$ 1,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY					DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR	<input checked="" type="checkbox"/>	6807335N66A42	7/1/2014	7/1/2015	MED EXP (Any one person) \$ 5,000
			6807335N66A42	7/1/2015	7/1/2016	PERSONAL & ADV INJURY \$ 1,000,000
						GENERAL AGGREGATE \$ 2,000,000
GEN'L AGGREGATE LIMIT APPLIES PER:						PRODUCTS - COMPIOP AGG \$ 2,000,000
<input checked="" type="checkbox"/>	<input type="checkbox"/> POLICY	<input type="checkbox"/> PRO-JECT	<input type="checkbox"/> LOC			
AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident) \$
<input type="checkbox"/> ANY AUTO						BODILY INJURY (Per person) \$
<input type="checkbox"/> ALL OWNED AUTOS						BODILY INJURY (Per accident) \$
<input type="checkbox"/> HIRED AUTOS						PROPERTY DAMAGE (Per accident) \$
<input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS						
UMBRELLA LIAB						EACH OCCURRENCE \$
EXCESS LIAB						AGGREGATE \$
<input type="checkbox"/> OCCUR						
<input type="checkbox"/> CLAIMS-MADE						
WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						<input checked="" type="checkbox"/> WC STATU-TORY LIMITS
<input type="checkbox"/> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)						OTHER
<input type="checkbox"/> If yes, describe above DESCRIPTION OF OPERATIONS below						E.L. EACH ACCIDENT \$ 500,000
Y/N						E.L. DISEASE - EA EMPLOYEE \$ 500,000
N/A						E.L. DISEASE - POLICY LIMIT \$ 500,000
IAUB7335N960						
7/1/2014						
7/1/2015						
7/1/2016						
RTP0007545						
4/8/2016						
4/8/2017						
Professional Liability						Each Occurrence \$1,000,000
						Aggregate \$2,000,000
DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)						
[Municipality name] is additional insured with regard to general liability as required by contract.						

End of Addendum No. I

9/25/2023 2:51:29 PM S:\1-S-P-Projects\MUNICIPAL\Village of Essex_JcL\Lincoln Hall\2023 EJ Village Offices\Drawings\Revit\TRANSMIT MODEL\Lincoln Hall\Lincoln Hall 04.05.24_Central_2023v_2023-9-25_14.8.56\Lincoln Hall\Lincoln Hall 2023.09.25.2023.rvt



ATTIC EXISTING / DEMO PLAN
1/8" = 1'-0"

DEMOLITION NOTES

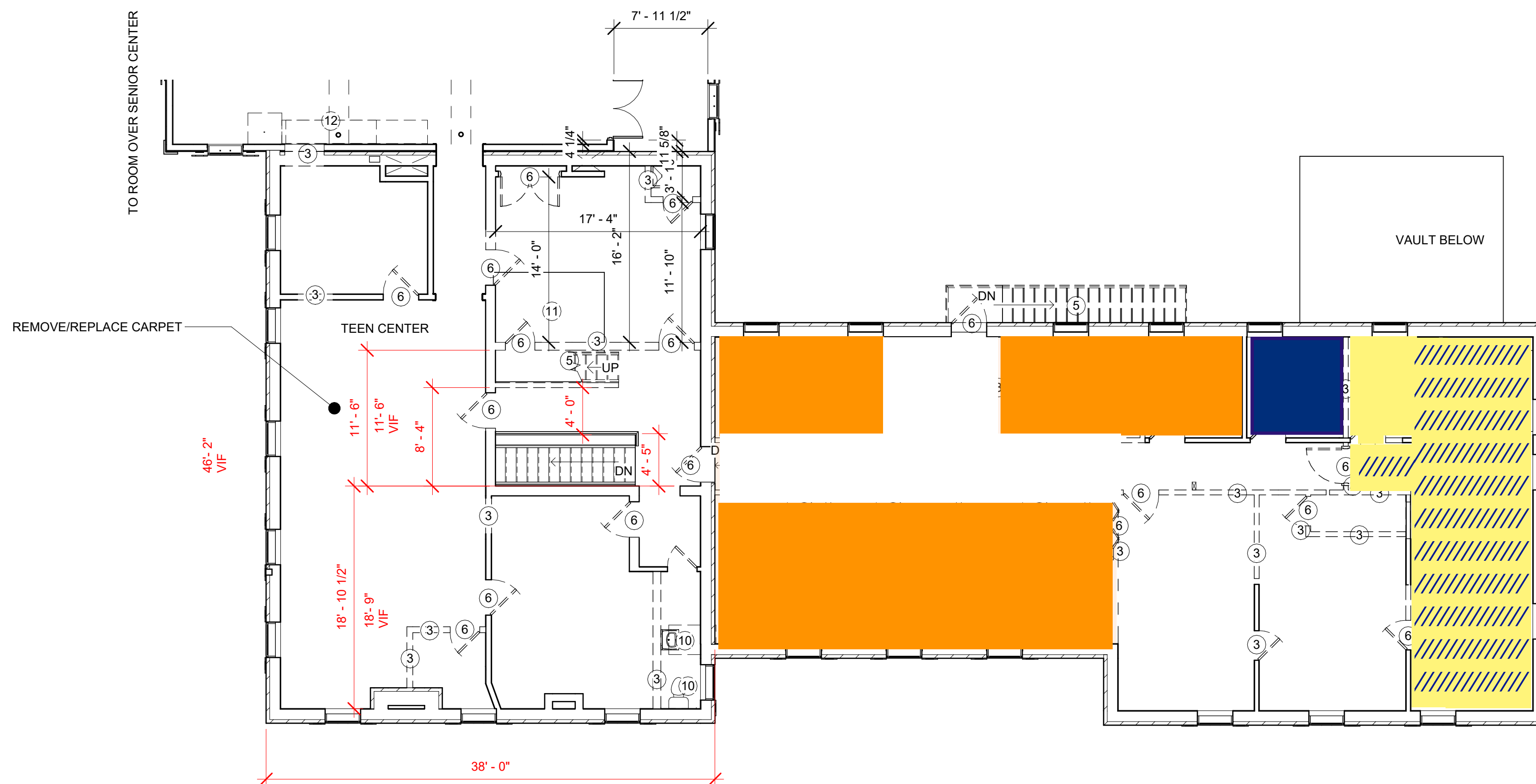
1. DEMOLISH EXTERIOR STAIR
2. DEMOLISH SLAB
3. DEMOLISH WALL
4. DEMOLISH ROOF
5. DEMOLISH STAIR
6. DEMOLISH DOOR
7. DEMOLISH WINDOW
8. DEMOLISH MECHANICAL
9. DEMOLISH ELECTRICAL
10. DEMOLISH PLUMBING FIXTURE, AND ALL PLUMBING FIXTURE FITUP.
11. DEMOLISH FLOOR
12. REMOVE CASEWORK

DRAWING PHASE KEY

	NEW CONSTRUCTION
	DEMOLITION
	EXISTING

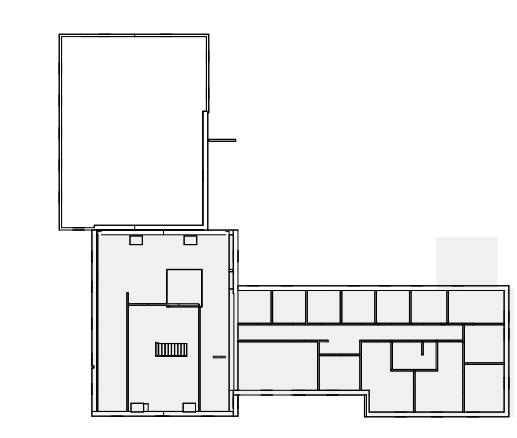
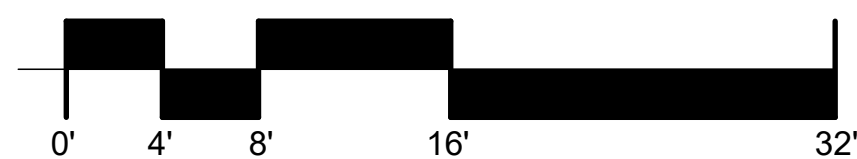
SCOTT + PARTNERS
ARCHITECTURE

7 CARMICHAEL ST. ESSEX JUNCTION, VT 05452
P 802.879.5153 | F 802.872.2764 | SCOTTPARTNERS.COM



SECOND FLOOR EXISTING/ DEMO PLAN
1/8" = 1'-0"

	Sheet Vinyl Flooring
	Vinyl Floor Tile
	Textured Ceiling
	Vinyl Floor Tile & Textured Ceiling



CM PRICING CHECK SET
9-25-2023

SCHEMATIC DESIGN PLANS
CM-BID SET 7/14/2023

project name:
LINCOLN HALL

project address:
2 LINCOLN STREET
05452

ESSEX JUNCTION, VT

scale:	As indicated	
project no.	21-1457	
checked by:	JA	
drawn by:	LMW, TN	
proj. date:	2023	
sheet date:	07/11/2023	
No	Date	Revisions

sheet title:
SECOND FLOOR + ATTIC EXISTING/ DEMO PLANS

sheet no.
A1.1