ADDENDUM No. 4
January 30, 2025

SUNY ECC NORTH CAMPUS KITTINGER HALL
CLASSROOM INFRASTRUCTURE PHASE 1 IMPROVEMENTS

TO: ALL BIDDERS AND DOCUMENT HOLDERS

ISSUED BY:
Ashley McGraw Architects, D.P.C.
125 East Jefferson Street
Syracuse, New York 13202
Phone: (315) 425-1814

All bidders submitting proposals for the above project shall take note of the following Clarifications, Changes, Additions, and Deletions to the drawings and specifications that become part of the contract.

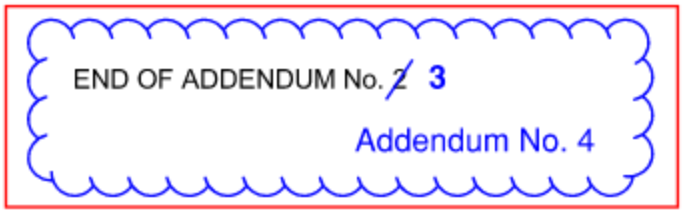
Receipt of this Addendum shall be acknowledged on the Form of Proposal.

This Addendum consists of one hundred thirty-eight (138) pages of 8 ½" x 11" text and nine (9) attached 30" x 42" drawings.

CLARIFICATION

4-C-1 Clarification

1. At the bottom of Addendum No. 3 page 5 of 40., **CHANGE** verbiage to read:



2. **A.** ALL contractors are responsible to restore ALL site elements to their original condition if altered during construction. Site elements include but are not limited to sidewalks, stairs, ramps, railings, curbs, tarvia, grass, landscaping, utilities and signage.

   B. ALL contractors are responsible to restore ALL interior and exterior building elements to their original condition if altered during construction.

3. The general contractor is to provide solid wood blocking in partitions for ALL wall mounted accessories including but not limited to ALL surface mounted projection screens and ALL marker boards in ALL the classrooms and ALL tackboards in the ALL the Corridors for ALL Nook Type B. Coordinate with Drawings A420, A422, A423 and ALL Interior Elevation drawings.

4-C-2

RFI's

1. **Question:** There is a note on the fixture schedule that makes it look as if Batteries are required for the EM Fixtures. Is this correct? **"EMB LIGHTING FIXTURE PROVIDED WITH EMERGENCY BATTERY BALLAST."**

   A. **Response:** All light fixtures marked "EM" are designated to be connected to an emergency source before the switching leg. The contractor shall utilize the existing emergency power panelboard SK to circuit the emergency light fixtures.

2. **Question:** Are the stairs in rooms K105, K139, K165 and K169 to be included in the terrazzo restoration? In the finish schedule on A602 they are listed as TERR-1/CPT-1 but on drawings A7101-A702 they are shown as either no finish or CPT-1.

   A. **Response:** Room Finish Schedule will be corrected on drawing A602 ROOM FINISH SCHEDLE and A602 will be re-issued in Addendum No. 4. Room Finish Schedule to match drawings A701 and A702.

DRAWINGS

4-D-1 DRAWING HM101 – FIRST FLOOR HAZARDOUS MATERIALS REMOVAL PLAN

1. **REPLACEMENT DRAWINGS one (1) 30" x 42"**
   A. **REVISE** as per the clouded areas associated with Addendum No. 4.

4-D-2 DRAWING HM102 – SECOND FLOOR HAZARDOUS MATERIALS REMOVAL PLAN

1. **REPLACEMENT DRAWINGS one (1) 30" x 42"**
   A. **REVISE** as per the clouded areas associated with Addendum No. 4.

4-D-3 DRAWING AD101 – ARCHITECTURAL DEMOLITION – SECOND FLOOR

1. **REPLACEMENT DRAWINGS one (1) 30" x 42"**
   A. **REVISE** as per the clouded areas associated with Addendum No. 4.

4-D-4 DRAWING A104 – ENLAGED PANS – SECOND FLOOR

1. **REPLACEMENT DRAWINGS one (1) 30" x 42"**
   A. **REVISE** as per the clouded areas associated with Addendum No. 4.

4-D-5 DRAWING A123 – ENLARGED REFLECTED CEILIGN PLANS – FIRST FLOOR

1. **REPLACEMENY DRAWINGS one (1) 30" x 42"**
   A. **REVISE** as per the clouded areas associated with Addendum No. 4.

4-D-6 DRAWING A124 – ENLARGED REFLECTED CEILIGN PLANS – SECOND FLOOR

1. **REPLACEMENT DRAWINGS one (1) 30" x 42"**
   A. **REVISE** as per the clouded areas associated with Addendum No. 4.

4-D-7 DRAWING A601 – DOOR SCHEDULE AND DETAILS

1. **REPLACEMETN DRAWINGS one (1) 30" x 42"**
   A. **REVISE** as per the clouded areas associated with Addendum No. 4.

4-D-8 DRAWING A602 – ROOM FINSH SCHEDULE

1. **REPLACEMETN DRAWINGS one (1) 30" x 42"**
   A. **REVISE** as per the clouded areas associated with Addendum No. 4.

4-D-9 DRAWING A500 – HVAC DETAILS

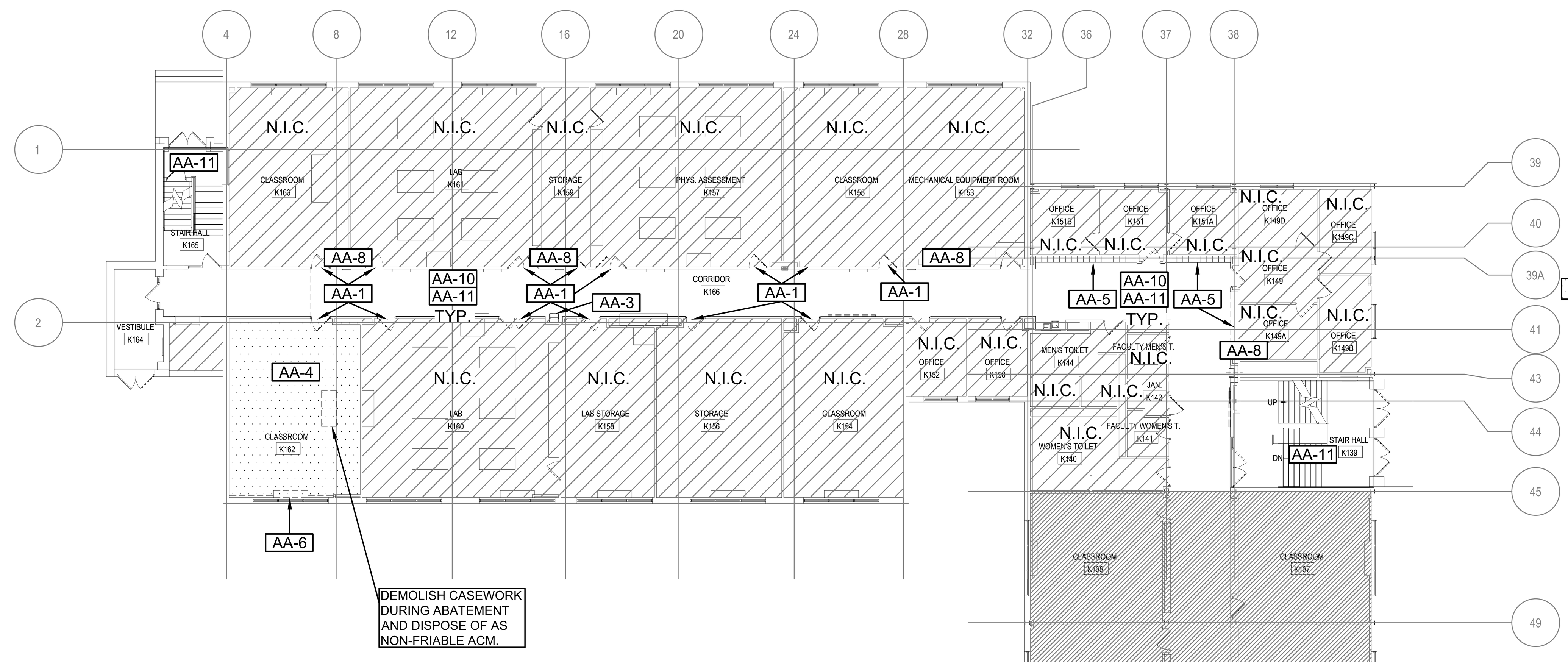
1. **REPLACEMETN DRAWINGS one (1) 30" x 42"**
   A. **REVISE** as per the clouded areas associated with Addendum No. 4.
   REVISE Detail 1, NOTES; 2. and 3.

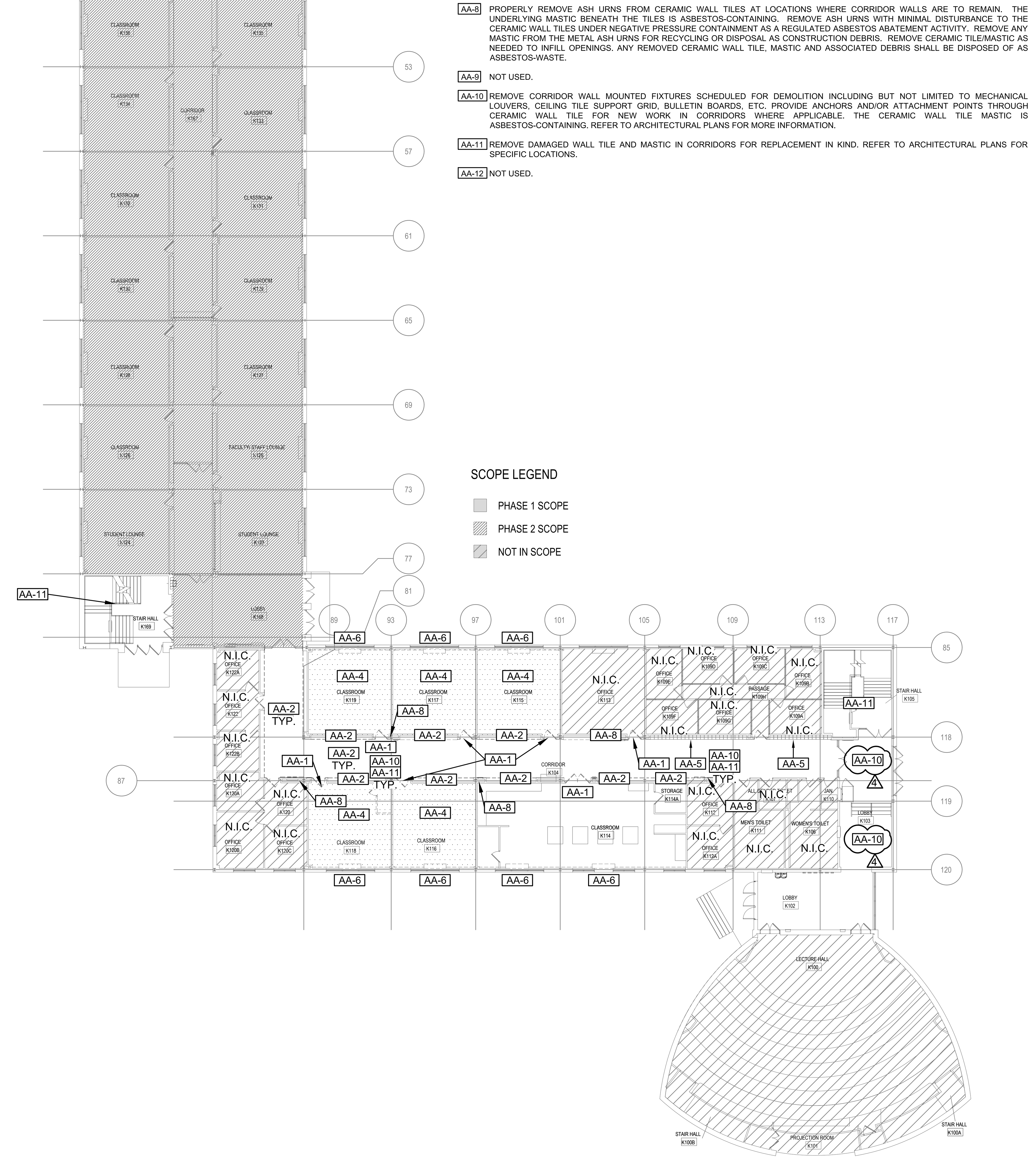
SPECIFICATIONS

4-S-1 SPECIFICATION 02 8213 ASBESTOS ABATEMENT

1. **REPLACEMENT SPECIFICATION:**
   one hundred and thirty-five (135) 8 ½" x 11" pages.

END OF ADDENDUM No. 4





1 FIRST FLOOR HAZARDOUS MATERIALS REMOVAL PLAN

SCALE: 1/16" = 1'-0"

PHOTO 1

VIEW OF CORRIDOR WOOD PANELS AND BLUE CERAMIC WALL TILES BY ROOM 114. THERE IS ASBESTOS-CONTAINING MASTIC BEHIND THE CERAMIC WALL TILES AND EXTENDING BENEATH EDGES OF ABUTTING WOOD PANELS. CARPET ADHESIVE ON TERRAZZO FLOORING WAS DETERMINED TO BE NON-ACM.

PHOTO 2

VIEW OF LOBBY 168 WITH STOREFRONT STYLE DOOR AND WINDOW FRAMES AND BLUE WALL TILES WITH ASBESTOS-CONTAINING MASTIC. CAULK AND GLAZING COMPOUND ON STOREFRONT FRAME DOORS AND WINDOWS WAS DETERMINED TO BE NON-ACM AND NON-PCB CONTAINING.

ASBESTOS ABATEMENT NOTES

AA-1 CONTRACTOR SHALL PROPERLY REMOVE AND DISPOSE OF THE WOOD DOORS WITH ASBESTOS-CONTAINING WINDOW GLAZING COMPOUND FOR THE INSET WINDOWS. THE DOORS ARE TO BE REMOVED INTACT WITHIN A NEGATIVE PRESSURE REGULATED ASBESTOS ABATEMENT WORK AREA, WRAPPED IN 6 MIL POLY SHEETING, EDGES SEALED AND LABELED PRIOR TO TRANSFER TO THE ASBESTOS WASTE STORAGE AREA. THE DOORS ARE TO BE PROPERLY DISPOSED OF AS FRIABLE ASBESTOS-WASTE. REFER TO ARCHITECTURAL DRAWINGS AND DOOR SCHEDULE ON DRAWING KH A601 FOR ADDITIONAL INFORMATION AND TO DETERMINE BASE BID WORK VS. ALTERNATE WORK.

4

AA-2 REMOVE WOOD PANELING AND/OR BUILT IN BENCH AND ALL ASSOCIATED BACKUP SYSTEMS IN THEIR ENTIRETY. REMOVE WALL TILE AND ASBESTOS CONTAINING MASTIC BEHIND WOOD PANELS. WORK ALSO TO INCLUDE REMOVALS OF EXISTING SOFFITS, FASCIAS AND ALL BACKUP SYSTEMS IN THEIR ENTIRETY. REMOVE LOCKERS, SOFFITS AND ASSOCIATED BACKUP. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DELINEATING PRECISE REMOVAL LIMITS. REMOVAL SHALL OCCUR UNDER NEGATIVE PRESSURE CONTAINMENT WITHIN A REGULATED ASBESTOS ABATEMENT WORK AREA. REFER TO ARCHITECTURAL DOCUMENTS FOR MORE DETAIL.

AA-3 CAREFULLY REMOVE DRINKING FOUNTAIN ATTACHED TO WALL WITH ASBESTOS-CONTAINING WALL TILE SYSTEM. IF TILE DAMAGE OCCURS DURING REMOVAL, REMOVE ENTIRE BROKEN TILE(S) AND ASSOCIATED MASTIC IN PREPARATION FOR REPAIR. REMOVE CERAMIC TILE/ MASTIC AS NEEDED TO INFILL OPENINGS. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR FURTHER INFORMATION.

AA-4 REMOVE ALL FLOORING MATERIALS MASTICS AND FILLERS DOWN TO AND FROM BARE CONCRETE SUBSTRATE. 9" X 9" FLOOR TILE AND ASSOCIATED MASTIC BENEATH NEWER FLOORING MATERIAL IS ASBESTOS-CONTAINING. THERE IS MINIMUM OF TWO LAYERS OF FLOORING IN ALL SPACES. PERFORM SCHEDULED DEMOLITION AS REQUIRED TO REACH EXTENTS OF TILE. MULTIPLE LAYERS OF FLOORING ARE PRESENT IN ALL LOCATIONS. CHEMICAL REMOVAL METHODS ARE NOT TO BE UTILIZED FOR MASTIC REMOVAL. RESTORE THE FLOOR SLAB AND ADEQUATELY PREPARE THE SLAB TO AN ACCEPTABLE CONDITION TO RECEIVE NEW FLOORING. REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL INFORMATION ON FLOOR PREPARATION REQUIREMENTS.

4

AA-5 REMOVE DESIGNATED SECTIONS OF LOCKERS, SOFFITS THAT ARE BUILT IN TO CORRIDOR WALLS AND ALL ASSOCIATED BACKUP SYSTEMS. ASBESTOS-CONTAINING MASTIC FROM ABUTTING CERAMIC CORRIDOR WALL TILES WILL BE PRESENT BENEATH EDGES OF THE ABUTTING LOCKERS. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR LOCKERS TO BE REMOVED. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DELINEATING PRECISE REMOVAL LIMITS. REMOVAL OF THE LOCKERS SHALL OCCUR UNDER NEGATIVE PRESSURE CONTAINMENT WITHIN A REGULATED ASBESTOS ABATEMENT WORK AREA. CONTRACTOR SHALL REMOVE ANY RESIDUAL ASBESTOS-CONTAINING MASTIC FROM THE LOCKERS AND FROM THE UNDERLYING SUBSTRATE. REMOVE CERAMIC TILE/MASTIC AS NEEDED TO INFILL OPENINGS. THE LOCKERS CAN BE DISPOSED OF AS CONSTRUCTION DEBRIS OR RECYCLED AFTER VISUAL INSPECTION AND CLEARANCE BY THE INDEPENDENT PROJECT MONITOR. PROPERLY CONTAIN AND DISPOSE OF REMOVED ASBESTOS-CONTAINING MASTIC AND ASSOCIATED DEBRIS AS ASBESTOS-WASTE.

AA-6 DETACH AND DISPOSE OF UNIT VENTILATORS THAT ARE ON TOP OF ASBESTOS-CONTAINING 9” X 9” TILES. THE 9" x 9" FLOOR TILES ARE COVERED BY NEWER FLOORING.

AA-7 PROPERLY REMOVE AND DISPOSE OF ASBESTOS-CONTAINING MUDDED FITTINGS TO ACCOMMODATE REPLACEMENT OF STEAM SUPPLY AND CONDENSATE RETURN LINES TO WALL MOUNTED UNIT VENTILATORS. REMOVE MUDDED FITTINGS AND ADJACENT FIBERGLASS INSULATION APPROXIMATELY 12” BEYOND FITTINGS TO ACCOMMODATE MECHANICAL RENOVATIONS. REFER TO MECHANICAL DEMOLITION AND NEW WORK PLANS. SEAL ENDS OF REMAINING PIPE INSULATION WITH WETTED CLOTH.

AA-8 PROPERLY REMOVE ASH URNS FROM CERAMIC WALL TILES AT LOCATIONS WHERE CORRIDOR WALLS ARE TO REMAIN. THE UNDERLYING MASTIC BENEATH THE TILES IS ASBESTOS-CONTAINING. REMOVE ASH URNS WITH MINIMAL DISTURBANCE TO THE CERAMIC WALL TILES UNDER NEGATIVE PRESSURE CONTAINMENT AS A REGULATED ASBESTOS ABATEMENT ACTIVITY. REMOVE ANY MASTIC FROM THE METAL ASH URNS FOR RECYCLING OR DISPOSAL AS CONSTRUCTION DEBRIS. REMOVE CERAMIC TILE/MASTIC AS NEEDED TO INFILL OPENINGS. ANY REMOVED CERAMIC WALL TILE, MASTIC AND ASSOCIATED DEBRIS SHALL BE DISPOSED OF AS ASBESTOS-WASTE.

AA-9 NOT USED.

AA-10 REMOVE CORRIDOR WALL MOUNTED FIXTURES SCHEDULED FOR DEMOLITION INCLUDING BUT NOT LIMITED TO MECHANICAL LOUVERS, CEILING TILE SUPPORT GRID, BULLETIN BOARDS, ETC. PROVIDE ANCHORS AND/OR ATTACHMENT POINTS THROUGH CERAMIC WALL TILE FOR NEW WORK IN CORRIDORS WHERE APPLICABLE. THE CERAMIC WALL TILE MASTIC IS ASBESTOS-CONTAINING. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION.

AA-11 REMOVE DAMAGED WALL TILE AND MASTIC IN CORRIDORS FOR REPLACEMENT IN KIND. REFER TO ARCHITECTURAL PLANS FOR SPECIFIC LOCATIONS.

AA-12 NOT USED.

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL RULES, REGULATIONS, GUIDELINES, AND THE CONTRACT DOCUMENTS.

B. IF ANY PREVIOUSLY UNIDENTIFIED OR OTHERWISE UNANTICIPATED SUSPECT MATERIAL (I.E. SUSPECT ASBESTOS-CONTAINING MATERIAL, SUSPECT PCB-CONTAINING MATERIAL, MOLD GROWTH, ETC.) IS IDENTIFIED DURING CONSTRUCTION, STOP WORK AND NOTIFY THE OWNER OR THEIR REPRESENTATIVE FOR FURTHER DIRECTION. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR COLLECT AND/OR ANALYZE BULK SAMPLES OF SUSPECT MATERIALS.

C. THE DISTURBANCE OF ANY ASBESTOS-CONTAINING MATERIAL (ACM), OR SUSPECT ACM, SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR.

D. ALL MATERIAL MEASUREMENTS AND/OR QUANTITIES AND LOCATIONS ARE APPROXIMATE AND FOR GENERAL ORIENTATION ONLY.

E. THE LOCATION OF SITE STORAGE OF MATERIAL, EQUIPMENT, WASTE TRAILER/DUMPSTER(S), AS WELL AS CONTRACTOR PARKING, ETC. SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER/OWNER'S REPRESENTATIVE.

F. CONTRACTOR IS RESPONSIBLE FOR ALL TOOLS, EQUIPMENT, AND SUPPLIES. CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING LADDERS, SCAFFOLDING, LIFTS, PLANKING, ETC. AS REQUIRED TO PERFORM WORK. THE OWNER OR THEIR REPRESENTATIVE WILL NOT BE RESPONSIBLE FOR LOST, DAMAGED, OR STOLEN ITEMS.

G. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE WORK AREA IN A CLEAN AND SAFE CONDITION, PROVIDING TEMPORARY PROTECTION, PROTECTING BUILDING MATERIALS SCHEDULED TO REMAIN, AND TO PREVENT UNAUTHORIZED ACCESS DURING THE DURATION OF THE PROJECT. REPAIR OF DAMAGE CAUSED AS A RESULT OF INADEQUATE TEMPORARY PROTECTION OR CONTRACTOR ACTIVITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

H. WHERE FEASIBLE, NON-POROUS CLEANABLE MATERIALS REMOVED DURING ABATEMENT ACTIVITIES SHALL BE PROPERLY CLEANED AND RECYCLED OR DISPOSED OF AS C & D DEBRIS, AS APPROPRIATE. PROJECT MONITOR SHALL VISUALLY INSPECT ALL SUCH MATERIALS TO ENSURE PROPER CLEANING/DECONTAMINATION HAS OCCURRED PRIOR TO BEING REMOVED FROM THE REGULATED ABATEMENT WORK AREA.

I. ALL REMOVED ASBESTOS-CONTAINING MATERIALS AND ASBESTOS-CONTAMINATED WASTE SHALL BE PROPERLY PACKAGED PRIOR TO BEING REMOVED FROM THE WORK AREA(S). WARNING LABELS SHALL BE APPLIED TO ASBESTOS WASTE CONTAINERS AS APPROPRIATE. ALL ASBESTOS-CONTAINING MATERIALS/ASBESTOS-CONTAMINATED WASTE REMOVED FROM THE WORK AREA(S) SHALL BE ACCOMPANIED BY A WASTE SHIPMENT RECORD. COMPLETED WASTE SHIPMENT RECORDS MUST BE PROVIDED TO THE OWNER AS PART OF THE CLOSEOUT DOCUMENTATION. ALL ORIGINAL WASTE SHIPMENT RECORDS MUST BE PROVIDED TO THE OWNER WITHIN 35 DAYS OF THE WASTE LEAVING THE SITE.

J. COORDINATE ALL WORK ACTIVITIES WITH THE OWNER/OWNER'S REPRESENTATIVE TO ENSURE ONSITE ACTIVITIES ARE ACCEPTABLE TO THE OWNER, AND THAT REMOVALS ARE SUFFICIENT TO ACCOMMODATE THE PROJECT ACTIVITIES. THE ECC CAMPUS BUILDINGS WILL BE PARTIALLY OCCUPIED DURING ABATEMENT. CONTRACTOR SHALL COORDINATE ABATEMENT ACTIVITIES AND SCHEDULING WITH THE FACILITY. USE OF REMOTE DECONTAMINATION UNITS SHALL NOT BE ALLOWED UNLESS EXPRESSLY AUTHORIZED BY ERIE COUNTY DPW AND ECC REPRESENTATIVES.

K. REFER TO SPECIFICATION SECTION 028213 AND 028313 AND THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION AND COORDINATION.

L. THE PROVISIONS OF ANY SITE-SPECIFIC VARIANCE(S) OBTAINED BY THE CONTRACTOR MAY NOT BE IMPLEMENTED UNTIL APPROVAL IS GIVEN BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

M. ALL CLEARANCE AIR SAMPLES WILL BE ANALYZED BY TRANSMISSION ELECTRON MICROSCOPY (TEM) USING THE METHOD SPECIFIED UNDER THE ASBESTOS HAZARD EMERGENCY RESPONSE ACT (AHERA).

N. ACTIVE FIRE DETECTION/PROTECTION SYSTEM COMPONENTS SHALL NOT BE CONSIDERED FIXED OBJECTS SUBJECT TO PLASTICIZATION, AND SHALL NOT BE SEALED WITH CRITICAL BARRIERS OR ISOLATION BARRIERS. THE FIRE DETECTION/PROTECTION SYSTEM IS TO BE FULLY OPERATIONAL DURING ABATEMENT ACTIVITIES AND IN ORIGINAL WORKING ORDER AFTER COMPLETION OF THE PROJECT. EXPOSED FIRE DETECTION/PROTECTION SYSTEM DEVICES SHALL BE PROTECTED DURING ACTIVE ABATEMENT WITH PLASTIC SHEETING DRAPED FROM ABOVE THE FIXTURE TO LOOSELY HANG DOWN BEYOND THE FACE ON ALL SIDES. FIRE DETECTION/PROTECTION SYSTEM DEVICES SHALL BE CLEANED BY HEPA-VACUUMING DURING EACH REQUIRED STAGE OF CLEANING. ENSURE THAT ALL FIRE DETECTION/PROTECTION SYSTEM COMPONENTS THAT MAY BE DETACHED DUE TO ABATEMENT AND/OR DEMOLITION ACTIVITIES ARE TEMPORARILY SECURED IN PLACE.

O. CONTRACTOR SHALL PROTECT AND NOT DAMAGE GAS SUPPLY LINES, STEAM HEAT SUPPLY AND RETURN LINES TO THE UNIT VENTILATORS, HVAC DUCTS OR OTHER PIPING, EQUIPMENT AND FITTINGS WITHIN THE REGULATED ABATEMENT AREAS.

P. CONTRACTOR IS RESPONSIBLE FOR ALL CONFINED SPACE ENTRY PROCEDURES FOR ENTERING CRAWL SPACES. THE CRAWL SPACES ARE NOT A PERMIT REQUIRED CONFINED SPACE.

Q. ABATEMENT WORK MAY BE PHASED AND WILL REQUIRE COORDINATION WITH THE GENERAL CONTRACTOR. COORDINATE ANY PHASING, ABATEMENT AND DEMOLITION ACTIVITIES CLOSELY WITH THE GENERAL CONTRACTOR AND OTHER TRADES.

ASBESTOS AWARENESS NOTES

1. IF ASBESTOS-CONTAINING MATERIALS ARE ACCIDENTALLY DISTURBED OR IF UNIDENTIFIED SUSPECT ASBESTOS-CONTAINING MATERIALS ARE DISCOVERED WITHIN PROJECT LIMITS OR UNKNOWN HAZARDOUS MATERIALS ARE FOUND, CEASE WORK WITHIN THE AFFECTED AREA; CORDON OFF THE AFFECTED AREA OR ROOM AT THE LIMITS OF DISTURBANCE OR THE UNKNOWN MATERIALS AND CONTACT THE CONSTRUCTION MANAGER AND ENVIRONMENTAL CONSULTANT IMMEDIATELY.
2. ANY DISTURBANCE TO REGULATED ASBESTOS CONTAINING MATERIALS SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR EMPLOYING CERTIFIED WORKERS.
3. ALL CONTRACTORS/SUBCONTRACTORS SHALL BE AWARE THAT THE FOLLOWING ASBESTOS-CONTAINING MATERIALS ARE PRESENT WITHIN PROJECT LIMITS. REFER TO THE PRE-RENOVATION SURVEY FOR TEST RESULTS AND APPROXIMATE QUANTITIES.
   - MASTIC THIN SET BEHIND CERAMIC WALL TILES ON CORRIDOR WALLS.
   - WINDOW GLAZING COMPOUND FOR INSET WINDOWS IN WOOD DOORS.
   - 9” FLOOR TILES AND ASSOCIATED MASTIC BENEATH WOOD LAMINATE SHEET FLOORING IN CLASSROOMS AND OFFICES WITHIN PROJECT LIMITS.
   - MUDDED FITTINGS DOMESTIC WATER AND STEAM HEAT SUPPLY LINES LOCATED IN THE BASEMENT CRAWL SPACE AND CHASES.
   - BLACK TAR PATCHES ON THE BASE OF ROOFTOP EXHAUST FANS.
4. ESTABLISH GROUND PROJECTION AND PROMPTLY CLEAN UP ANY LOOSE DEBRIS FOR PROPER DISPOSAL.
5. MASTIC/SET ASSOCIATED WITH CERAMIC WALL TILES IN CORRIDORS AND STAIRHALLS IS ASBESTOS-CONTAINING. ALL WORK WHICH MAY DISTURB THE MASTIC INCLUDING BUT NOT LIMITED TO ATTACHING FIXTURES OR REMOVING FIXTURES ANCHORED THROUGH THE MASTIC/SET MUST BE PERFORMED BY AND IS THE RESPONSIBILITY OF THE ASBESTOS ABATEMENT CONTRACTOR. REFER TO THE ENTIRE SET OF DRAWINGS FOR SPECIFIC LOCATIONS. COORDINATE WORK WITH ASSOCIATED TRADES.

LEAD BASED PAINT HANDLING AND AWARENESS NOTES

1. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR CONDUCTING ALL WORK IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS, INCLUDING OSHA 29 CFR 1926.62: LEAD EXPOSURE IN CONSTRUCTION: INTERIM FINAL RULE FOR ALL ACTIVITIES DURING WHICH AN EMPLOYEE MAY BE OCCUPATIONALLY EXPOSED TO LEAD.
2. ALL CONTRACTORS AND SUBCONTRACTORS SHALL ENSURE THAT THEIR EMPLOYEES WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT AND/OR UTILIZE APPROPRIATE WORK METHODS TO PREVENT ELEVATED BLOOD LEAD LEVELS OR EXPOSURE ABOVE THE PERMISSIBLE EXPOSURE LIMIT. DISPOSAL OF GENERATED PAINT CHIPS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE FEDERAL AND STATE REGULATIONS REGARDING LEAD.
3. FURNISHING THIS INFORMATION IS NOT INTENDED TO RELIEVE THE CONTRACTOR/SUBCONTRACTOR OF ITS RESPONSIBILITIES UNDER OSHA TO DETERMINE IF THEIR EMPLOYEES AND SUBCONTRACTORS MAY BE EXPOSED TO LEAD AND TO WARN THEIR EMPLOYEES OF THE POTENTIAL DANGERS OF THE DISTURBANCE OF LEAD-CONTAINING MATERIALS.
4. BASED ON TESTING THE FOLLOWING COMPONENTS IN PROJECT LIMITS HAVE BEEN IDENTIFIED TO BE COATED OR CONTAIN LEAD-BASED PAINT:
   - BLACK STRUCTURAL STEEL BEAMS ALONG UPPER CORRIDOR WALLS.
5. THE CONTRACTOR/SUBCONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE EPA'S LEAD RENOVATION REPAIR AND PAINTING (RRP RULE). USE OF HEAT GUNS SHALL BE LIMITED TO A TEMPERATURE LESS THAN 1,000°F AS NOT TO GENERATE LEAD FUMES. USE OF CHEMICAL STRIPPING AGENTS IS ALLOWED AT THIS FACILITY WHEN MSDS ARE SUBMITTED AND ARE APPROVED BY THE FACILITY MANAGEMENT AND THE ENVIRONMENTAL CONSULTANT.
6. ALL PENETRATIONS AND/OR CUTTING OF STRUCTURAL STEEL BEAMS, WILL DISTURB LEAD-BASED PAINT. CONTRACTOR SHALL PROPERLY COLLECT AND STORE ALL REMOVED PAINT (CHIPS, PAINT SLURRY, ETC.) AND ASSOCIATED DEBRIS GENERATED AT THESE COMPONENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR LABORATORY ANALYSIS FOR TCLP RCRA LEAD AND ANY OTHER REQUIRED DISPOSAL CHARACTERIZATION. PROPERLY DISPOSE OF ANY DEBRIS DETERMINED TO BE RCRA LEAD AS HAZARDOUS WASTE.

ASHLEY MCGRAW

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CONSULTANT:
Watts Architects &Engineers
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SEAL: 01/06/2025 ISSUED FOR BID

Certificate of Authorization: 0018827
Expiration Date: 11/30/25

OWNER:
ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
95 FRANKLIN STREET, SUITE 1400
BUFFALO, NY 14202
ECDPW PROJECT #: 2021-956-01

SUNY ECC ERIE NORTH CAMPUS KITTINGER HALL
CLASSROOM INFRASTRUCTURE PHASE 1 IMPROVEMENTS
6201 MAIN STREET, WILLIAMSVILLE, NY 14221

AM JOB NO.: 21138

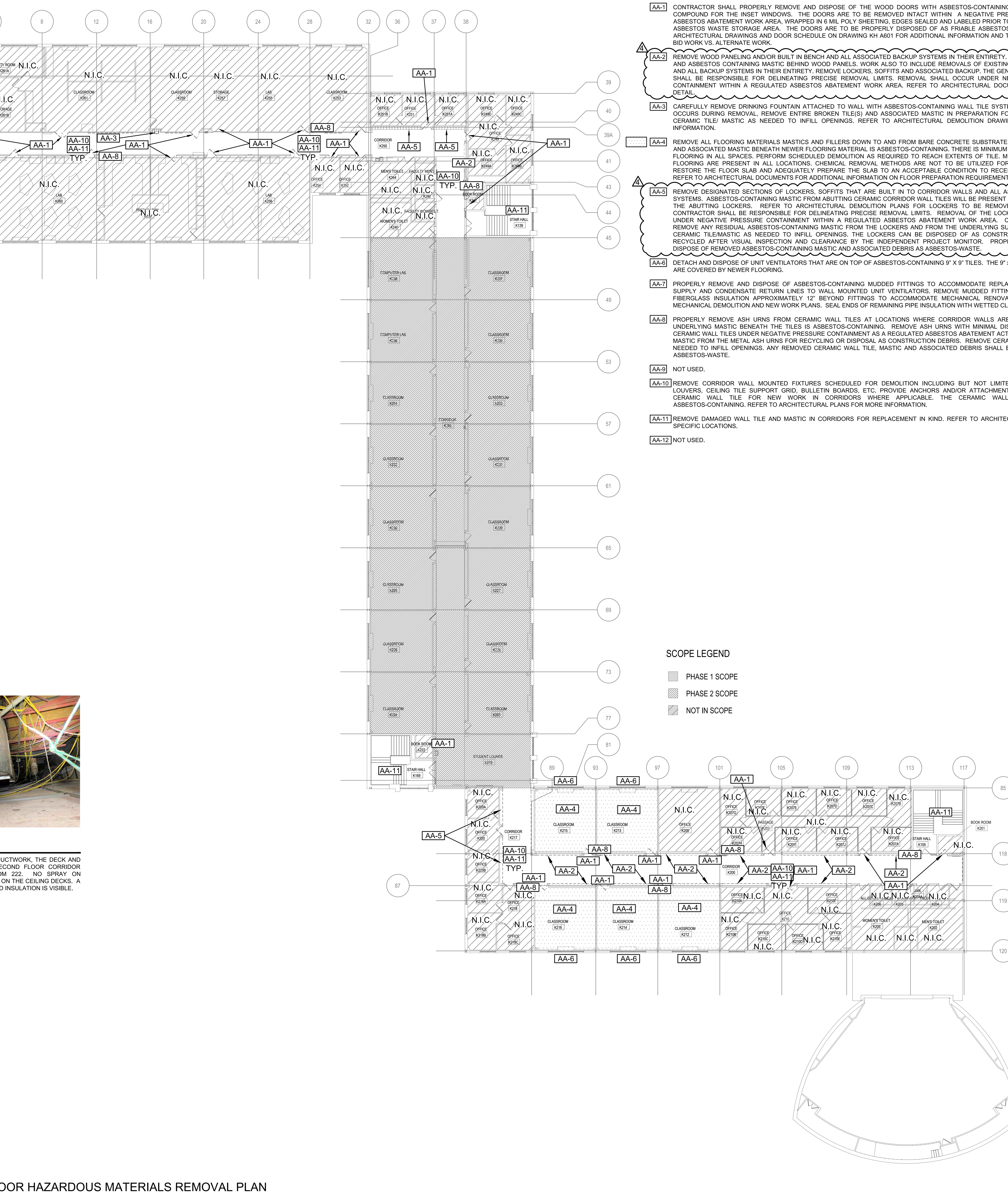
REV. NO.	REV. DATE	REV. DESCRIPTION
4	01/30/25	ADDENDUM 04

DATE ISSUED: 01/06/2025

FIRST FLOOR HAZARDOUS MATERIALS REMOVAL PLAN

KH HM101

9/11/2023 2:43:11 PM



ASBESTOS ABATEMENT NOTES

AA-1 CONTRACTOR SHALL PROPERLY REMOVE AND DISPOSE OF THE WOOD DOORS WITH ASBESTOS-CONTAINING WINDOW GLAZING COMPOUND FOR THE INSET WINDOWS. THE DOORS ARE TO BE REMOVED INTACT WITHIN A NEGATIVE PRESSURE REGULATED ASBESTOS ABATEMENT WORK AREA, WRAPPED IN 6 MIL POLY SHEETING, EDGES SEALED AND LABELED PRIOR TO TRANSFER TO THE ASBESTOS WASTE STORAGE AREA. THE DOORS ARE TO BE PROPERLY DISPOSED OF AS FRIABLE ASBESTOS-WASTE. REFER TO ARCHITECTURAL DRAWINGS AND DOOR SCHEDULE ON DRAWING KH A601 FOR ADDITIONAL INFORMATION AND TO DETERMINE BASE BID WORK VS. ALTERNATE WORK.

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AA-2 REMOVE WOOD PANELING AND/OR BUILT IN BENCH AND ALL ASSOCIATED BACKUP SYSTEMS IN THEIR ENTIRETY. REMOVE WALL TILE AND ASBESTOS CONTAINING MASTIC BEHIND WOOD PANELS. WORK ALSO TO INCLUDE REMOVALS OF EXISTING SOFFITS, FASCIAS AND ALL BACKUP SYSTEMS IN THEIR ENTIRETY. REMOVE LOCKERS, SOFFITS AND ASSOCIATED BACKUP. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DELINEATING PRECISE REMOVAL LIMITS. REMOVAL SHALL OCCUR UNDER NEGATIVE PRESSURE CONTAINMENT WITHIN A REGULATED ASBESTOS ABATEMENT WORK AREA. REFER TO ARCHITECTURAL DOCUMENTS FOR MORE DETAIL.

AA-3 CAREFULLY REMOVE DRINKING FOUNTAIN ATTACHED TO WALL WITH ASBESTOS-CONTAINING WALL TILE SYSTEM. IF TILE DAMAGE OCCURS DURING REMOVAL, REMOVE ENTIRE BROKEN TILE(S) AND ASSOCIATED MASTIC IN PREPARATION FOR REPAIR. REMOVE CERAMIC TILE/ MASTIC AS NEEDED TO INFILL OPENINGS. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS FOR FURTHER INFORMATION.

AA-4 REMOVE ALL FLOORING MATERIALS MASTICS AND FILLERS DOWN TO AND FROM BARE CONCRETE SUBSTRATE. 9" X 9" FLOOR TILE AND ASSOCIATED MASTIC BENEATH NEWER FLOORING MATERIAL IS ASBESTOS-CONTAINING. THERE IS MINIMUM OF TWO LAYERS OF FLOORING IN ALL SPACES. PERFORM SCHEDULED DEMOLITION AS REQUIRED TO REACH EXTENTS OF TILE. MULTIPLE LAYERS OF FLOORING ARE PRESENT IN ALL LOCATIONS. CHEMICAL REMOVAL METHODS ARE NOT TO BE UTILIZED FOR MASTIC REMOVAL. RESTORE THE FLOOR SLAB AND ADEQUATELY PREPARE THE SLAB TO AN ACCEPTABLE CONDITION TO RECEIVE NEW FLOORING. REFER TO ARCHITECTURAL DOCUMENTS FOR ADDITIONAL INFORMATION ON FLOOR PREPARATION REQUIREMENTS.

4

AA-5 REMOVE DESIGNATED SECTIONS OF LOCKERS, SOFFITS THAT ARE BUILT IN TO CORRIDOR WALLS AND ALL ASSOCIATED BACKUP SYSTEMS. ASBESTOS-CONTAINING MASTIC FROM ABUTTING CERAMIC CORRIDOR WALL TILES WILL BE PRESENT BENEATH EDGES OF THE ABUTTING LOCKERS. REFER TO ARCHITECTURAL DEMOLITION PLANS FOR LOCKERS TO BE REMOVED. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR DELINEATING PRECISE REMOVAL LIMITS. REMOVAL OF THE LOCKERS SHALL OCCUR UNDER NEGATIVE PRESSURE CONTAINMENT WITHIN A REGULATED ASBESTOS ABATEMENT WORK AREA. CONTRACTOR SHALL REMOVE ANY RESIDUAL ASBESTOS-CONTAINING MASTIC FROM THE LOCKERS AND FROM THE UNDERLYING SUBSTRATE. REMOVE CERAMIC TILE/MASTIC AS NEEDED TO INFILL OPENINGS. THE LOCKERS CAN BE DISPOSED OF AS CONSTRUCTION DEBRIS OR RECYCLED AFTER VISUAL INSPECTION AND CLEARANCE BY THE INDEPENDENT PROJECT MONITOR. PROPERLY CONTAIN AND DISPOSE OF REMOVED ASBESTOS-CONTAINING MASTIC AND ASSOCIATED DEBRIS AS ASBESTOS-WASTE.

AA-6 DETACH AND DISPOSE OF UNIT VENTILATORS THAT ARE ON TOP OF ASBESTOS-CONTAINING 9" X 9" TILES. THE 9" x 9" FLOOR TILES ARE COVERED BY NEWER FLOORING.

AA-7 PROPERLY REMOVE AND DISPOSE OF ASBESTOS-CONTAINING MUDDED FITTINGS TO ACCOMMODATE REPLACEMENT OF STEAM SUPPLY AND CONDENSATE RETURN LINES TO WALL MOUNTED UNIT VENTILATORS. REMOVE MUDDED FITTINGS AND ADJACENT FIBERGLASS INSULATION APPROXIMATELY 12" BEYOND FITTINGS TO ACCOMMODATE MECHANICAL RENOVATIONS. REFER TO MECHANICAL DEMOLITION AND NEW WORK PLANS. SEAL ENDS OF REMAINING PIPE INSULATION WITH WETTED CLOTH.

AA-8 PROPERLY REMOVE ASH URNS FROM CERAMIC WALL TILES AT LOCATIONS WHERE CORRIDOR WALLS ARE TO REMAIN. THE UNDERLYING MASTIC BENEATH THE TILES IS ASBESTOS-CONTAINING. REMOVE ASH URNS WITH MINIMAL DISTURBANCE TO THE CERAMIC WALL TILES UNDER NEGATIVE PRESSURE CONTAINMENT AS A REGULATED ASBESTOS ABATEMENT ACTIVITY. REMOVE ANY MASTIC FROM THE METAL ASH URNS FOR RECYCLING OR DISPOSAL AS CONSTRUCTION DEBRIS. REMOVE CERAMIC TILE/MASTIC AS NEEDED TO INFILL OPENINGS. ANY REMOVED CERAMIC WALL TILE, MASTIC AND ASSOCIATED DEBRIS SHALL BE DISPOSED OF AS ASBESTOS-WASTE.

AA-9 NOT USED.

AA-10 REMOVE CORRIDOR WALL MOUNTED FIXTURES SCHEDULED FOR DEMOLITION INCLUDING BUT NOT LIMITED TO MECHANICAL LOUVERS, CEILING TILE SUPPORT GRID, BULLETIN BOARDS, ETC. PROVIDE ANCHORS AND/OR ATTACHMENT POINTS THROUGH CERAMIC WALL TILE FOR NEW WORK IN CORRIDORS WHERE APPLICABLE. THE CERAMIC WALL TILE MASTIC IS ASBESTOS-CONTAINING. REFER TO ARCHITECTURAL PLANS FOR MORE INFORMATION.

AA-11 REMOVE DAMAGED WALL TILE AND MASTIC IN CORRIDORS FOR REPLACEMENT IN KIND. REFER TO ARCHITECTURAL PLANS FOR SPECIFIC LOCATIONS.

AA-12 NOT USED.

SCOPE LEGEND

- PHASE 1 SCOPE
- PHASE 2 SCOPE
- NOT IN SCOPE

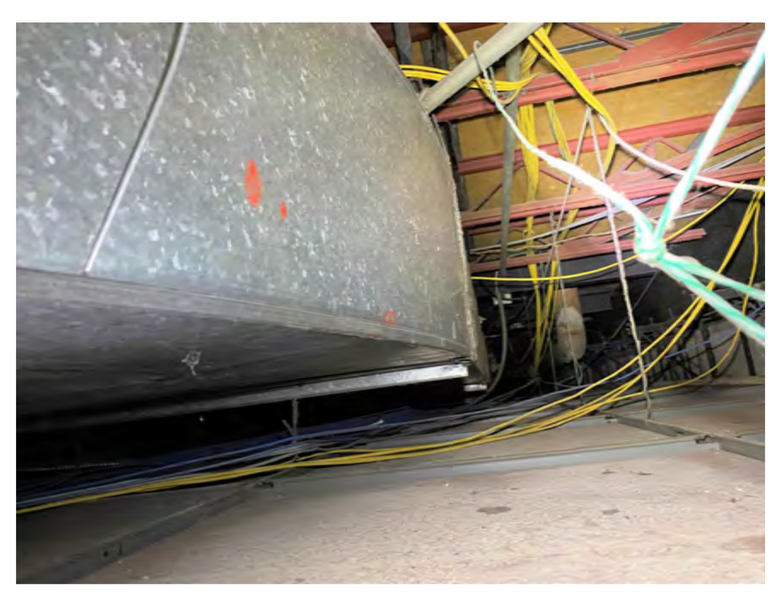

PHOTO 1

VIEW OF BARE SHEET METAL DUCTWORK, THE DECK AND SIGNAL WIRES ABOVE THE SECOND FLOOR CORRIDOR SUSPENDED CEILING BY ROOM 222. NO SPRAY ON FIREPROOFING WAS OBSERVED ON THE CEILING DECKS. A ROOF DRAIN WITH NON-ACM MUD INSULATION IS VISIBLE.

1 SECOND FLOOR HAZARDOUS MATERIALS REMOVAL PLAN

SCALE: 1/16" = 1'-0"

GENERAL NOTES

A. CONTRACTOR SHALL PERFORM ALL WORK IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL RULES, REGULATIONS, GUIDELINES, AND THE CONTRACT DOCUMENTS.

B. IF ANY PREVIOUSLY UNIDENTIFIED OR OTHERWISE UNANTICIPATED SUSPECT MATERIAL (I.E. SUSPECT ASBESTOS-CONTAINING MATERIAL, SUSPECT PCB-CONTAINING MATERIAL, MOLD GROWTH, ETC.) IS IDENTIFIED DURING CONSTRUCTION, STOP WORK AND NOTIFY THE OWNER OR THEIR REPRESENTATIVE FOR FURTHER DIRECTION. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR COLLECT AND/OR ANALYZE BULK SAMPLES OF SUSPECT MATERIALS.

C. THE DISTURBANCE OF ANY ASBESTOS-CONTAINING MATERIAL (ACM), OR SUSPECT ACM, SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR.

D. ALL MATERIAL MEASUREMENTS AND/OR QUANTITIES AND LOCATIONS ARE APPROXIMATE AND FOR GENERAL ORIENTATION ONLY.

E. THE LOCATION OF SITE STORAGE OF MATERIAL, EQUIPMENT, WASTE TRAILER/DUMPSTER(S), AS WELL AS CONTRACTOR PARKING, ETC. SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER/OWNER'S REPRESENTATIVE.

F. CONTRACTOR IS RESPONSIBLE FOR ALL TOOLS, EQUIPMENT, AND SUPPLIES. CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING LADDERS, SCAFFOLDING, LIFTS, PLANKING, ETC. AS REQUIRED TO PERFORM WORK. THE OWNER OR THEIR REPRESENTATIVE WILL NOT BE RESPONSIBLE FOR LOST, DAMAGED, OR STOLEN ITEMS.

G. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE WORK AREA IN A CLEAN AND SAFE CONDITION, PROVIDING TEMPORARY PROTECTION, PROTECTING BUILDING MATERIALS SCHEDULED TO REMAIN, AND TO PREVENT UNAUTHORIZED ACCESS DURING THE DURATION OF THE PROJECT. REPAIR OF DAMAGE CAUSED AS A RESULT OF INADEQUATE TEMPORARY PROTECTION OR CONTRACTOR ACTIVITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

H. WHERE FEASIBLE, NON-POROUS CLEANABLE MATERIALS REMOVED DURING ABATEMENT ACTIVITIES SHALL BE PROPERLY CLEANED AND RECYCLED OR DISPOSED OF AS C & D DEBRIS, AS APPROPRIATE. PROJECT MONITOR SHALL VISUALLY INSPECT ALL SUCH MATERIALS TO ENSURE PROPER CLEANING/DECONTAMINATION HAS OCCURRED PRIOR TO BEING REMOVED FROM THE REGULATED ABATEMENT WORK AREA.

I. ALL REMOVED ASBESTOS-CONTAINING MATERIALS AND ASBESTOS-CONTAMINATED WASTE SHALL BE PROPERLY PACKAGED PRIOR TO BEING REMOVED FROM THE WORK AREA(S). WARNING LABELS SHALL BE APPLIED TO ASBESTOS WASTE CONTAINERS AS APPROPRIATE. ALL ASBESTOS-CONTAINING MATERIALS/ASBESTOS-CONTAMINATED WASTE REMOVED FROM THE WORK AREA(S) SHALL BE ACCOMPANIED BY A WASTE SHIPMENT RECORD. COMPLETED WASTE SHIPMENT RECORDS MUST BE PROVIDED TO THE OWNER AS PART OF THE CLOSEOUT DOCUMENTATION. ALL ORIGINAL WASTE SHIPMENT RECORDS MUST BE PROVIDED TO THE OWNER WITHIN 35 DAYS OF THE WASTE LEAVING THE SITE.

J. COORDINATE ALL WORK ACTIVITIES WITH THE OWNER/OWNER'S REPRESENTATIVE TO ENSURE ONSITE ACTIVITIES ARE ACCEPTABLE TO THE OWNER, AND THAT REMOVALS ARE SUFFICIENT TO ACCOMMODATE THE PROJECT ACTIVITIES. THE ECC CAMPUS BUILDINGS WILL BE PARTIALLY OCCUPIED DURING ABATEMENT. CONTRACTOR SHALL COORDINATE ABATEMENT ACTIVITIES AND SCHEDULING WITH THE FACILITY. USE OF REMOTE DECONTAMINATION UNITS SHALL NOT BE ALLOWED UNLESS EXPRESSLY AUTHORIZED BY ERIE COUNTY DPW AND ECC REPRESENTATIVES.

K. REFER TO SPECIFICATION SECTION 028213 AND 028313 AND THE CONTRACT DOCUMENTS FOR ADDITIONAL INFORMATION AND COORDINATION.

L. THE PROVISIONS OF ANY SITE-SPECIFIC VARIANCE(S) OBTAINED BY THE CONTRACTOR MAY NOT BE IMPLEMENTED UNTIL APPROVAL IS GIVEN BY THE OWNER OR THE OWNER'S REPRESENTATIVE.

M. ALL CLEARANCE AIR SAMPLES WILL BE ANALYZED BY TRANSMISSION ELECTRON MICROSCOPY (TEM) USING THE METHOD SPECIFIED UNDER THE ASBESTOS HAZARD EMERGENCY RESPONSE ACT (AHERA).

N. ACTIVE FIRE DETECTION/PROTECTION SYSTEM COMPONENTS SHALL NOT BE CONSIDERED FIXED OBJECTS SUBJECT TO PLASTICIZATION, AND SHALL NOT BE SEALED WITH CRITICAL BARRIERS OR ISOLATION BARRIERS. THE FIRE DETECTION/PROTECTION SYSTEM IS TO BE FULLY OPERATIONAL DURING ABATEMENT ACTIVITIES AND IN ORIGINAL WORKING ORDER AFTER COMPLETION OF THE PROJECT. EXPOSED FIRE DETECTION/PROTECTION SYSTEM DEVICES SHALL BE PROTECTED DURING ACTIVE ABATEMENT WITH PLASTIC SHEETING DRAPED FROM ABOVE THE FIXTURE TO LOOSELY HANG DOWN BEYOND THE FACE ON ALL SIDES. FIRE DETECTION/PROTECTION SYSTEM DEVICES SHALL BE CLEANED BY HEPA-VACUUMING DURING EACH REQUIRED STAGE OF CLEANING. ENSURE THAT ALL FIRE DETECTION/PROTECTION SYSTEM COMPONENTS THAT MAY BE DETACHED DUE TO ABATEMENT AND/OR DEMOLITION ACTIVITIES ARE TEMPORARILY SECURED IN PLACE.

O. CONTRACTOR SHALL PROTECT AND NOT DAMAGE GAS SUPPLY LINES, STEAM HEAT SUPPLY AND RETURN LINES TO THE UNIT VENTILATORS, HVAC DUCTS OR OTHER PIPING, EQUIPMENT AND FITTINGS WITHIN THE REGULATED ABATEMENT AREAS.

P. CONTRACTOR IS RESPONSIBLE FOR ALL CONFINED SPACE ENTRY PROCEDURES FOR ENTERING CRAWL SPACES. THE CRAWL SPACES ARE NOT A PERMIT REQUIRED CONFINED SPACE.

Q. ABATEMENT WORK MAY BE PHASED AND WILL REQUIRE COORDINATION WITH THE GENERAL CONTRACTOR. COORDINATE ANY PHASING, ABATEMENT AND DEMOLITION ACTIVITIES CLOSELY WITH THE GENERAL CONTRACTOR AND OTHER TRADES.

ASBESTOS AWARENESS NOTES

1. IF ASBESTOS-CONTAINING MATERIALS ARE ACCIDENTALLY DISTURBED OR IF UNIDENTIFIED SUSPECT ASBESTOS-CONTAINING MATERIALS ARE DISCOVERED WITHIN PROJECT LIMITS OR UNKNOWN HAZARDOUS MATERIALS ARE FOUND, CEASE WORK WITHIN THE AFFECTED AREA; CORDON OFF THE AFFECTED AREA OR ROOM AT THE LIMITS OF DISTURBANCE OR THE UNKNOWN MATERIALS AND CONTACT THE CONSTRUCTION MANAGER AND ENVIRONMENTAL CONSULTANT IMMEDIATELY.
2. ANY DISTURBANCE TO REGULATED ASBESTOS CONTAINING MATERIALS SHALL BE PERFORMED BY A LICENSED ASBESTOS ABATEMENT CONTRACTOR EMPLOYING CERTIFIED WORKERS.
3. ALL CONTRACTORS/SUBCONTRACTORS SHALL BE AWARE THAT THE FOLLOWING ASBESTOS-CONTAINING MATERIALS ARE PRESENT WITHIN PROJECT LIMITS. REFER TO THE PRE-RENOVATION SURVEY FOR TEST RESULTS AND APPROXIMATE QUANTITIES.
   - MASTIC THIN SET BEHIND CERAMIC WALL TILES ON CORRIDOR WALLS.
   - WINDOW GLAZING COMPOUND FOR INSET WINDOWS IN WOOD DOORS.
   - 9" FLOOR TILES AND ASSOCIATED MASTIC BENEATH WOOD LAMINATE SHEET FLOORING IN CLASSROOMS AND OFFICES WITHIN PROJECT LIMITS.
   - MUDDED FITTINGS DOMESTIC WATER AND STEAM HEAT SUPPLY LINES LOCATED IN THE BASEMENT CRAWL SPACE AND CHASES.
   - BLACK TAR PATCHES ON THE BASE OF ROOFTOP EXHAUST FANS.
4. ESTABLISH GROUND PROJECTION AND PROMPTLY CLEAN UP ANY LOOSE DEBRIS FOR PROPER DISPOSAL.
5. MASTIC/SET ASSOCIATED WITH CERAMIC WALL TILES IN CORRIDORS AND STAIRHALLS IS ASBESTOS-CONTAINING. ALL WORK WHICH MAY DISTURB THE MASTIC INCLUDING BUT NOT LIMITED TO ATTACHING FIXTURES OR REMOVING FIXTURES ANCHORED THROUGH THE MASTIC/SET MUST BE PERFORMED BY AND IS THE RESPONSIBILITY OF THE ASBESTOS ABATEMENT CONTRACTOR. REFER TO THE ENTIRE SET OF DRAWINGS FOR SPECIFIC LOCATIONS. COORDINATE WORK WITH ASSOCIATED TRADES.

LEAD BASED PAINT HANDLING AND AWARENESS NOTES

1. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE RESPONSIBLE FOR CONDUCTING ALL WORK IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS, INCLUDING OSHA 29 CFR 1926.62: LEAD EXPOSURE IN CONSTRUCTION: INTERIM FINAL RULE FOR ALL ACTIVITIES DURING WHICH AN EMPLOYEE MAY BE OCCUPATIONALLY EXPOSED TO LEAD.
2. ALL CONTRACTORS AND SUBCONTRACTORS SHALL ENSURE THAT THEIR EMPLOYEES WEAR PROPER PERSONAL PROTECTIVE EQUIPMENT AND/OR UTILIZE APPROPRIATE WORK METHODS TO PREVENT ELEVATED BLOOD LEAD LEVELS OR EXPOSURE ABOVE THE PERMISSIBLE EXPOSURE LIMIT. DISPOSAL OF GENERATED PAINT CHIPS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE FEDERAL AND STATE REGULATIONS REGARDING LEAD.
3. FURNISHING THIS INFORMATION IS NOT INTENDED TO RELIEVE THE CONTRACTOR/SUBCONTRACTOR OF ITS RESPONSIBILITIES UNDER OSHA TO DETERMINE IF THEIR EMPLOYEES AND SUBCONTRACTORS MAY BE EXPOSED TO LEAD AND TO WARN THEIR EMPLOYEES OF THE POTENTIAL DANGERS OF THE DISTURBANCE OF LEAD-CONTAINING MATERIALS.
4. BASED ON TESTING THE FOLLOWING COMPONENTS IN PROJECT LIMITS HAVE BEEN IDENTIFIED TO BE COATED OR CONTAIN LEAD-BASED PAINT:
   - BLACK STRUCTURAL STEEL BEAMS ALONG UPPER CORRIDOR WALLS.
5. THE CONTRACTOR/SUBCONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE EPA'S LEAD RENOVATION REPAIR AND PAINTING (RRP RULE). USE OF HEAT GUNS SHALL BE LIMITED TO A TEMPERATURE LESS THAN 1,000°F AS NOT TO GENERATE LEAD FUMES. USE OF CHEMICAL STRIPPING AGENTS IS ALLOWED AT THIS FACILITY WHEN MSDS ARE SUBMITTED AND ARE APPROVED BY THE FACILITY MANAGEMENT AND THE ENVIRONMENTAL CONSULTANT.
6. ALL PENETRATIONS AND/OR CUTTING OF STRUCTURAL STEEL BEAMS, WILL DISTURB LEAD-BASED PAINT. CONTRACTOR SHALL PROPERLY COLLECT AND STORE ALL REMOVED PAINT (CHIPS, PAINT SLURRY, ETC.) AND ASSOCIATED DEBRIS GENERATED AT THESE COMPONENTS. CONTRACTOR SHALL BE RESPONSIBLE FOR LABORATORY ANALYSIS FOR TCLP RCRA LEAD AND ANY OTHER REQUIRED DISPOSAL CHARACTERIZATION. PROPERLY DISPOSE OF ANY DEBRIS DETERMINED TO BE RCRA LEAD AS HAZARDOUS WASTE.

LEAD REMOVAL NOTE

L-1 REMOVE LEAD-BASED PAINT FROM STRUCTURAL STEEL AS REQUIRED FOR MODIFICATIONS TO SUPPORT NEW ROOF TOP UNITS.

ASHLEY MCGRAW

125 EAST JEFFERSON STREET
SYRACUSE, NEW YORK 13202

CONSULTANT:
Watts Architects &Engineers
95 Perry Street, Suite 300
Buffalo, NY 14203

SEAL:
01/06/2025
ISSUED FOR BID
Certificate of Authorization: 0018827
Expiration Date: 11/30/25

OWNER:
ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
95 FRANKLIN STREET, SUITE 1400
BUFFALO, NY 14202
ECDPW PROJECT #: 2021-956-01

SUNY ECC ERIE NORTH CAMPUS KITTINGER HALL
CLASSROOM INFRASTRUCTURE PHASE 1 IMPROVEMENTS
6201 MAIN STREET, WILLIAMSVILLE, NY 14221

AM JOB NO. 21138

REV. NO.	REV. DATE	REV. DESCRIPTION
4	01/30/25	ADDENDUM 04

DATE ISSUED: 01/06/2025

SECOND FLOOR HAZARDOUS MATERIALS REMOVAL PLAN

KH HM102

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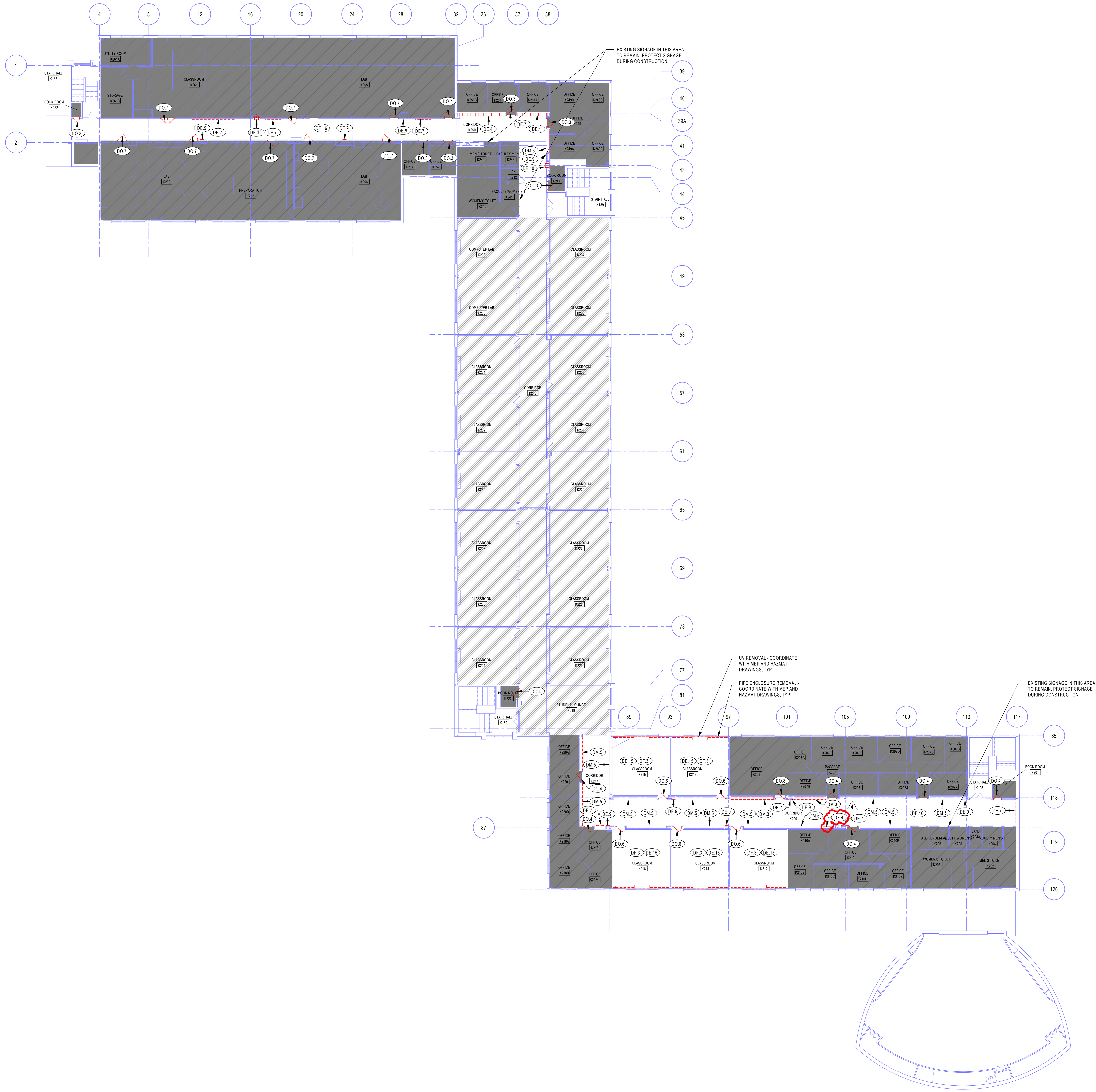


A1 SECOND FLOOR - DEMOLITION PLAN
1/16" = 1'-0"

SCOPE LEGEND

- PHASE 1 SCOPE
- PHASE 2 SCOPE
- NOT IN SCOPE

KEYED NOTES

KEYED NOTES LOCATED WITHIN A SPACE SHALL APPLY THROUGHOUT THE SPACE UNLESS OTHERWISE INDICATED.

Dx = DEMOLITION KEYNOTE	F = FLOORING	R = ROOFING
C = CEILING	M = MILLWORK	S = STAIRS / RAMPS
E = EQUIPMENT / FIXTURES	O = OPENING	W = WALL / STRUCTURE

NO.	DESCRIPTION
DE.4	REMOVE METAL LOCKERS. EXISTING CONCRETE HAUNCH AND EXISTING CERAMIC TILE BASE TO REMAIN. COORDINATE WITH HAZ-MAT DRAWINGS.
DE.7	REMOVE TACK BOARD AND ACCESSORIES. SALVAGE AND TURNOVER TO OWNER.
DE.9	REMOVE ASH URN AND ACCESSORIES BY ENVIRONMENTAL SUB-CONTRACTOR. COORDINATE WITH HAZ-MAT DRAWINGS.
DE.10	REMOVE DRINKING FOUNTAIN. COORDINATE WITH HAZ-MAT AND PLUMBING DRAWINGS.
DE.15	REMOVE ALL EXISTING WALL ACCESSORIES IN AREAS OF PROJECT SCOPE INCLUDING, BUT NOT LIMITED TO, PENCIL SHARPENERS, PROJECTOR SCREENS AND BULLETIN BOARDS.
DE.16	REMOVE ALL EXISTING ROOM NUMBERING SIGNAGE IN AREAS OF PROJECT SCOPE TO ACCOMMODATE NEW PAINT U.N.O.
DF.3	ACM FLOORING AND RESILIENT FLOORING UNDER THE ACM FLOORING, RESILIENT BASE, ACCESSORIES AND ADHESIVES TO BE REMOVED BY ENVIRONMENTAL SUB-CONTRACTOR. COORDINATE WITH HAZ-MAT DRAWINGS.
DF.4	CUT OPENING THROUGH SLAB AND FLOOR SYSTEM. COORDINATE WITH MECHANICAL DRAWINGS. 4
DM.3	REMOVE BENCH SEAT, BASE FRAME, TRIM AND SURROUNDING WOOD PANELS. EXISTING CONCRETE HAUNCH TO REMAIN. COORDINATE WITH HAZ-MAT DRAWINGS.
DM.5	REMOVE WOOD PANELS. EXISTING CONCRETE HAUNCH TO REMAIN. COORDINATE WITH HAZ-MAT DRAWINGS.
DO.3	ALTERNATE G-01: REMOVE DOOR AND HARDWARE. SALVAGE HARDWARE TO OWNER. FRAME TO REMAIN. COORDINATE WITH HAZ-MAT DRAWINGS.
DO.4	ALTERNATE G-02: REMOVE DOOR AND HARDWARE. SALVAGE HARDWARE TO OWNER. FRAME TO REMAIN. COORDINATE WITH HAZ-MAT DRAWINGS.
DO.6	REMOVE DOOR HARDWARE AND SALVAGE TO OWNER. DOOR REMOVAL BY ENVIRONMENTAL SUB-CONTRACTOR. FRAME TO REMAIN. COORDINATE WITH HAZ-MAT DRAWINGS.
DO.7	ALTERNATE #G-01: REMOVE DOOR HARDWARE AND SALVAGE TO OWNER. DOOR REMOVAL BY ENVIRONMENTAL SUB-CONTRACTOR. FRAME TO REMAIN. COORDINATE WITH HAZ-MAT DRAWINGS.
DO.8	ALTERNATE #G-02: REMOVE DOOR HARDWARE AND SALVAGE TO OWNER. DOOR REMOVAL BY ENVIRONMENTAL SUB-CONTRACTOR. FRAME TO REMAIN. COORDINATE WITH HAZ-MAT DRAWINGS.

GENERAL DEMOLITION NOTES

A GENERAL NOTES APPLY TO THE INTENDED WORK INCLUDED IN THE CONTRACT DOCUMENTS.

B THE DEMOLITION DRAWINGS ARE INTENDED AS A SUMMARY OF THE DEMOLITION, BUT MAY NOT REPRESENT ALL OF THE DEMOLITION REQUIRED TO COMPLETE THE WORK. THE DEMOLITION DRAWINGS AND THE REMAINDER OF THE CONSTRUCTION DOCUMENTS ARE COMPLIMENTARY, AS ADDITIONAL INFORMATION REQUIRED TO COMPLETE THE DEMOLITION MAY BE INDICATED THROUGHOUT.

C DEMOLITION REQUIRED TO COMPLETE THE WORK, BUT NOT INDICATED, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR COMPLETING THAT WORK.

D DEMOLITION OF MECHANICAL, ELECTRICAL, AND PLUMBING ELEMENTS REQUIRED BY THE GENERAL DEMOLITION, BUT NOT INDICATED, SHALL BE COMPLETED BY THE APPROPRIATE TRADE CONTRACTORS. EACH TRADE CONTRACTOR SHALL COORDINATE THEIR DEMOLITION WITH EACH OTHER AND WITH THE SCOPE OF THE FINISHED WORK.

E WHERE NEW FINISHES ARE TO BE APPLIED REMOVE ABANDONED, NON-FUNCTIONING ITEMS, SUCH AS SURFACE MOUNTED CONDUIT, RACEWAYS, JUNCTION BOXES, CLIPS, BRACKETS, FASTENERS, ETC. MECHANICAL, ELECTRICAL, AND PLUMBING ELEMENTS SHALL BE REMOVED BY THE APPROPRIATE TRADE CONTRACTORS, UNLESS OTHERWISE INDICATED OR DIRECTED.

F EXISTING CONDITIONS MAY VARY FROM THOSE INDICATED. NOTIFY THE ARCHITECT IN WRITING OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS BEFORE PROCEEDING WITH THE WORK.

G WHEN REMOVING A MATERIAL, COMPONENT, ASSEMBLY OR SYSTEM, IT SHALL INCLUDE REMOVAL OF ASSOCIATED SUSPENSION, HANGERS, BRACING, SHIMS, FASTENERS, ANCHORS, TRIM, ACCESSORIES, TRANSITION PIECES, ADHESIVES, SEALANTS, ETC., THE PRESENCE OF WHICH SERVES NO OTHER DISCERNABLE PURPOSE OTHER THAN ITS ASSOCIATION WITH ITEM BEING REMOVED, UNLESS OTHERWISE INDICATED.

H WHERE REMOVAL OF A MATERIAL, COMPONENT, ASSEMBLY OR SYSTEM IS INDICATED, IT SHALL INCLUDE THE REMOVAL OF RESIDUAL MATERIALS LEFT BEHIND ON ADJACENT SURFACES TO BE EXPOSED IN THE COMPLETED WORK, OR AS REQUIRED TO PREPARE SUCH SURFACES TO RECEIVE FINISHES INDICATED.

I WHERE NEWLY EXPOSED SURFACES ARE TO REMAIN EXPOSED IN THE COMPLETED WORK CONTRACTORS SHALL PATCH SURFACES WITH IN-KIND MATERIAL TO LIKE-NEW CONDITION, SUBJECT TO ARCHITECT'S APPROVAL.

J CONTRACTORS ARE RESPONSIBLE FOR DECONSTRUCTION OF ASSEMBLIES OR SYSTEMS AS REQUIRED TO SEPARATE RECYCLABLE MATERIALS INTO THEIR CORRECT CATEGORIES.

K SALVAGE MATERIALS AND EQUIPMENT AND TURN OVER TO THE OWNER AS INDICATED. SALVAGING SHALL INCLUDE THE REMOVAL OF INTACT ASSEMBLIES, THEIR STORAGE, PROTECTION, ORGANIZING AND RELOCATION UNLESS OTHERWISE INDICATED OR AS DIRECTED.

L WHEN REMOVING AN ITEM THAT HAS ATTACHED RIGID SIGNAGE, REMOVED SIGNAGE IN-TACT, AND REINSTALL ON THE NEW WORK OR TURN OVER AS DIRECTED BY OWNER'S REPRESENTATIVE. PROVIDE APPROPRIATE FASTENERS, TAPE, OR ADHESIVE COMPATIBLE WITH SIGNAGE AND SURFACE.

M WHEN REMOVING A UNIQUE, CUSTOM, OR DIFFICULT TO OBTAIN MATERIAL, VERIFY SALVAGE OPTIONS WITH OWNER'S REPRESENTATIVE PRIOR TO DISCARDING. EXAMPLES MAY INCLUDE GLAZED BLOCK, MOLDED BRICKS, CAST TERRAZZO BASE, ETC.

N WHEN REMOVING ITEMS INDICATED FOR REINSTALLATION, REMOVAL SHALL INCLUDE TRIM, ACCESSORIES, MOUNTING HARDWARE, ETC., REQUIRED FOR REINSTALLATION.

O WHERE DEMOLITION EXPOSES ENCLOSED SPACE OR SURFACES THAT WILL REMAIN EXPOSED IN THE FINISHED WORK, PROVIDE A THOROUGH CLEANING OF ALL SURFACES PRIOR TO PATCHING / FINISHING.

P CONTRACTORS SHALL ASSUME THE PRESENCE OF LEAD BASED PAINT AND OTHER LEAD CONTAINING MATERIALS IN BUILDING CONSTRUCTION BUILT PRIOR TO 1978, AND SHALL FOLLOW ALL REQUIRED WORK PRACTICES AND REGULATORY REQUIREMENTS REQUIRED TO CARRY OUT THE WORK. OTHER HAZARDOUS MATERIALS MAY BE PRESENT IN EXISTING CONSTRUCTION. INFORMATION ON THE PRESENCE OF KNOWN HAZARDOUS MATERIALS IS AVAILABLE FROM THE OWNER FOR CONTRACTORS' REVIEW. CONTRACTORS SHALL EXAMINE THE INFORMATION PRIOR TO BIDDING, AND BECOME FAMILIAR WITH LOCATIONS WHERE HAZARDOUS MATERIALS ARE KNOWN OR LIKELY TO BE PRESENT. CONTRACTORS ARE REQUIRED TO PLAN THEIR WORK IN ACCORDANCE WITH CONTRACT AND STATUTORY REQUIREMENTS, AND TO COORDINATE THEIR WORK WITH ANY REMEDIATION REQUIRED.

Q SHORE, BRACE AND SUPPORT STRUCTURAL ELEMENTS DURING CUTTING AND PATCHING. DO NOT CUT AND PATCH STRUCTURAL ELEMENTS IN A MANNER THAT COULD CHANGE THEIR LOAD CARRYING CAPACITY OR LOAD DEFLECTION RATIO. WHERE CUTTING AND PATCHING INVOLVE ADDING REINFORCEMENT TO STRUCTURAL ELEMENTS, SUBMIT DETAILS AND ENGINEERING CALCULATIONS OF A REGISTERED PROFESSIONAL (STRUCTURAL) ENGINEER, CURRENTLY LICENSED IN NEW YORK STATE, SHOWING INTEGRATION OF REINFORCEMENT WITH ORIGINAL STRUCTURE.

R WHERE NEW OR ENLARGED OPENINGS ARE INDICATED IN EXISTING CONSTRUCTION CONTRACTORS SHALL COORDINATE SIZES AND LOCATIONS OF OPENINGS WITH THE FINISHED WORK. REFRAME OPENINGS IN STUD WALLS, INCLUDING NEW HEADER.

S WHERE NEW OR ENLARGED OPENINGS ARE INDICATED IN UNIT MASONRY THAT WILL BE LEFT EXPOSED, PATCH MASONRY WITH IN-KIND UNITS WITH FINISHED SURFACES, TOOTHED IN, TO MATCH SURROUNDING COURSING AND BOND. PROVIDE NEW LINTEL UNLESS OTHERWISE INDICATED.

T WHERE NEW OR ENLARGED OPENINGS ARE INDICATED IN FLOOR AND ROOF CONSTRUCTION CUT DECK OPENING TO MINIMAL SIZE REQUIRED TO INSTALL NEW WORK. MODIFICATIONS TO EXISTING OPENINGS SHALL INCLUDE RELOCATION AND MODIFICATION OF EXISTING FRAMING. NEW OPENINGS SHALL INCLUDE NEW SUPPORT FRAMING, AND REMOVAL, REINFORCING, RELOCATION OR MODIFICATION OF EXISTING FRAMING UNLESS OTHERWISE INDICATED.

U WHERE NEW WINDOWS ARE INDICATED IN EXISTING OPENINGS, REMOVE AND REINSTALL WINDOW TREATMENTS UNLESS OTHERWISE INDICATED OR DIRECTED. WHERE REMOVAL OF WINDOWS IS INDICATED WITHOUT REPLACEMENT, REMOVE WINDOW TREATMENTS AND TURN OVER TO THE OWNER UNLESS OTHERWISE INDICATED OR DIRECTED.

V WHERE REMOVAL OF DOORS IS INDICATED, BOX AND LABEL HARDWARE, AND TURN OVER TO THE OWNER UNLESS OTHERWISE INDICATED OR DIRECTED.

W WHERE REMOVAL OF ADJUSTABLE SHELVING, MODULAR CHALK BOARDS ON STANDARDS, OR SIMILAR RELOCATABLE ITEMS IS REQUIRED, TURN OVER TO THE OWNER THOSE ITEMS, INCLUDING ALL STANDARDS, BRACKETS, AND ACCESSORIES, UNLESS OTHERWISE INDICATED OR DIRECTED.

X WHERE REMOVAL OF SUSPENDED CEILINGS IS INDICATED FOR ACCESS TO WORK ABOVE, GC SHALL REMOVE CEILING PANELS, GRID AND SUSPENSION COMPONENTS TO ALLOW UNENCUMBERED ACCESS. COORDINATE EXTENT WITH WORK OF OTHER TRADES REQUIRING ACCESS. GC SHALL REINSTALL CEILING UPON COMPLETION OF WORK ABOVE. WHERE REMOVAL OF CEILINGS IS REQUIRED, BUT NOT INDICATED, REMOVAL AND REPLACEMENT SHALL BE BY CONTRACTOR REQUIRING ACCESS.

Y WHERE REMOVAL OF GWB/PLASTER CEILINGS IS INDICATED FOR ACCESS TO WORK ABOVE, GC SHALL REMOVE GWB/PLASTER AND FRAMING TO LOGICAL POINT OF SUPPORT TO ALLOW UNENCUMBERED ACCESS. COORDINATE EXTENT WITH WORK OF OTHER TRADES REQUIRING ACCESS. GC SHALL RECONSTRUCT CEILING IN-KIND TO LIKE-NEW CONDITION UNLESS OTHERWISE INDICATED. WHERE REMOVAL OF CEILINGS IS REQUIRED, BUT NOT INDICATED, REMOVAL AND RECONSTRUCTION SHALL BE BY CONTRACTOR REQUIRING ACCESS. RECONSTRUCTION SHALL INCLUDE PAINTING.

ASHLEY MCGRAW
125 EAST JEFFERSON STREET
SYRACUSE, NEW YORK 13202

CONSULTANT:

SEAL: 01/06/2025 ISSUE FOR BID

OWNER:
ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
95 FRANKLIN STREET, SUITE 1400
BUFFALO, NY 14202
ECDPW PROJECT #: 2021-956-01

SUNY ECC NORTH CAMPUS KITTINGER HALL
CLASSROOM INFRASTRUCTURE PHASE 1 IMPROVEMENTS
6205 MAIN STREET, WILLIAMSVILLE, NY 14221

AM JOB NO.: 21138

REV. NO.	REV. DATE	REV. DESCRIPTION
4	01/30/25	Addendum 04

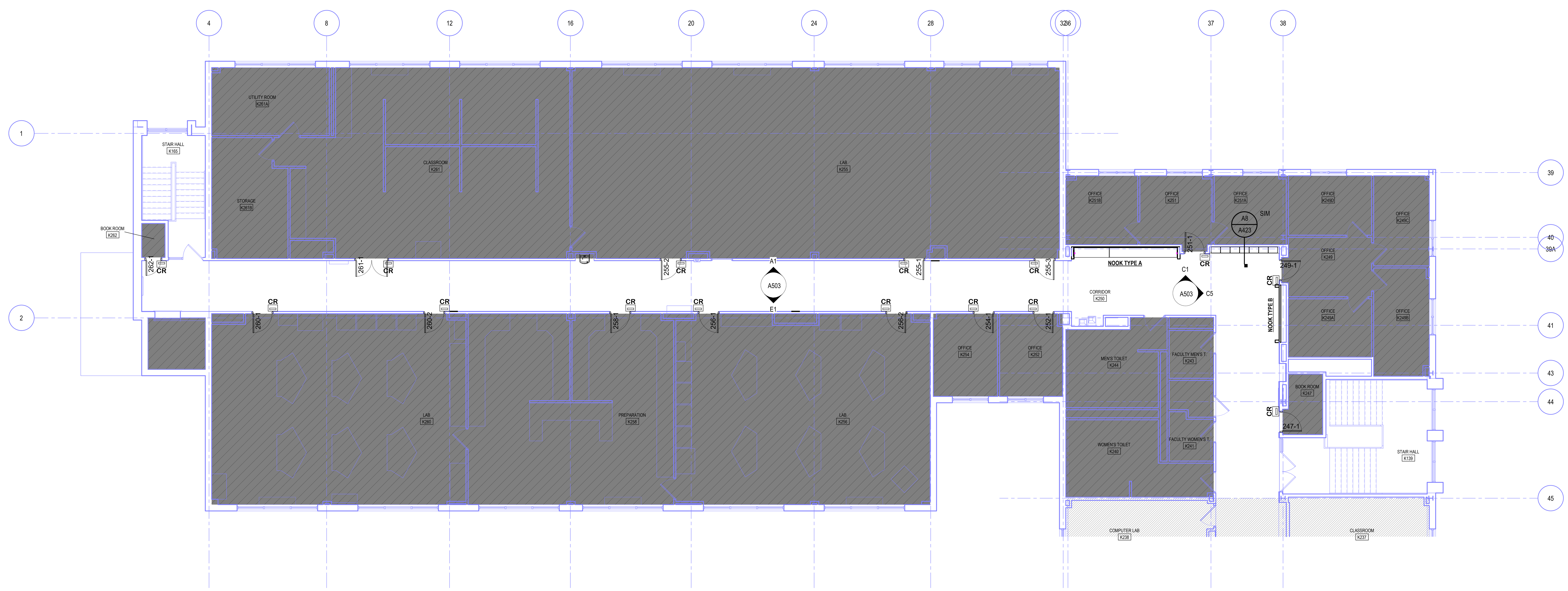
DATE ISSUED: 01/06/2025

ARCHITECTURAL DEMOLITION - SECOND FLOOR

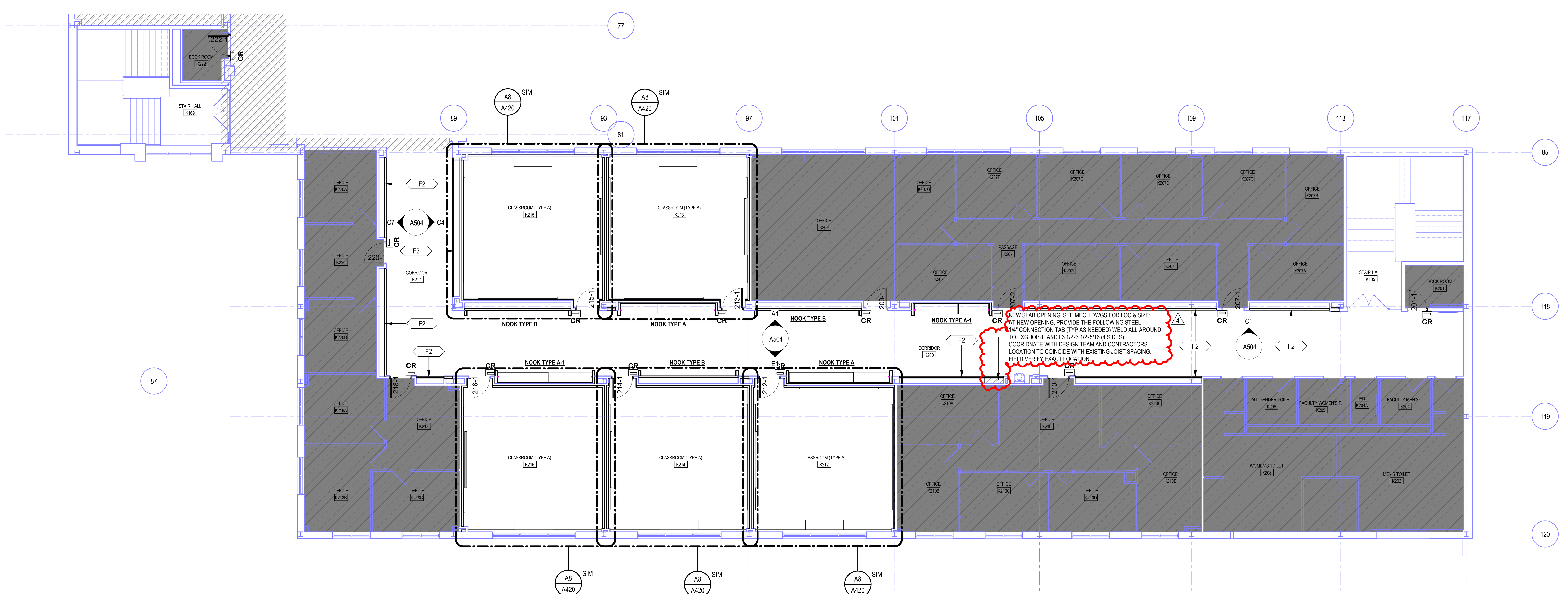
KH AD102

SCOPE LEGEND

- PHASE 1 SCOPE
- PHASE 2 SCOPE
- NOT IN SCOPE



E2 ENLARGED FLOOR PLAN - SECOND FLOOR NORTH CORRIDOR
1/8" = 1'-0"



A3 ENLARGED FLOOR PLAN - SECOND FLOOR SOUTH CORRIDOR
1/8" = 1'-0"

NORTH

ASHLEY MCGRAW
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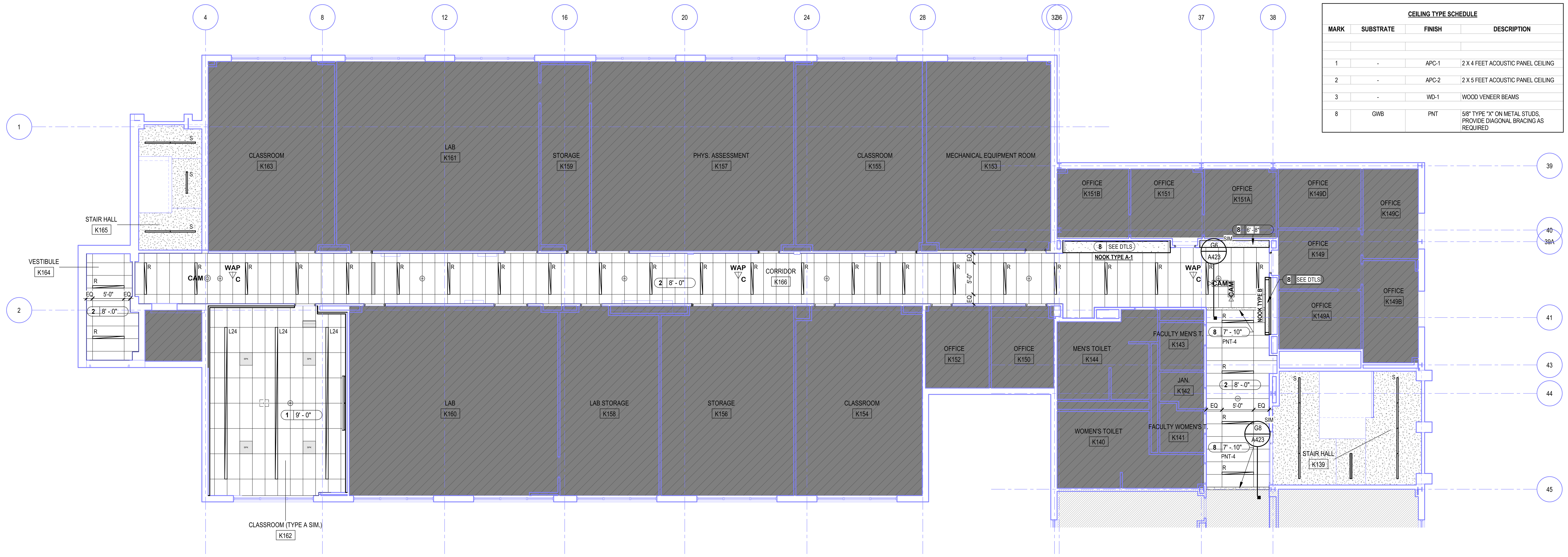
ENLARGED PLANS - SECOND FLOOR

KH A104

SCOPE LEGEND

- PHASE 1 SCOPE
- PHASE 2 SCOPE
- NOT IN SCOPE



E1 ENLARGED REFLECTED CEILING PLAN - FIRST FLOOR - NORTH WING

1/8" = 1'-0"

CEILING TYPE SCHEDULE

MARK	SUBSTRATE	FINISH	DESCRIPTION
1	-	APC-1	2 X 4 FEET ACOUSTIC PANEL CEILING
2	-	APC-2	2 X 5 FEET ACOUSTIC PANEL CEILING
3	-	WD-1	WOOD VENEER BEAMS
8	GWB	PNT	5/8" TYPE "X" ON METAL STUDS, PROVIDE DIAGONAL BRACING AS REQUIRED

GENERAL CEILING NOTES

A THESE GENERAL NOTES APPLY TO NEW SPACES AND EXISTING SPACES AFFECTED BY THE WORK. GENERAL NOTES APPLY TO THE WORK IN ITS ENTIRETY, REGARDLESS OF HOW OR WHERE THAT WORK APPEARS IN THE CONTRACT DOCUMENTS.

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C SHOULD CONFLICTS EXIST WITHIN THE CONSTRUCTION DOCUMENTS, VERIFY INTENT WITH ARCHITECT PRIOR TO BIDDING. CLARIFICATIONS ISSUED AFTER BIDDING SHALL NOT BE BASIS FOR ADDITIONAL COMPENSATION.

D IT IS INTENDED THAT ALL EQUIPMENT AND FIXTURES ARE LAID OUT ACCORDING TO THE ARCHITECTURAL REFLECTED CEILING PLANS.

E SEE GENERAL DEMOLITION NOTES FOR REMOVAL, AND REINSTALLATION OR REPLACEMENT OF EXISTING CEILINGS FOR ACCESS TO WORK ABOVE.

F IT IS THE RESPONSIBILITY OF THE CEILING INSTALLER TO COORDINATE WITH THE OTHER PRIME CONTRACTORS TO ALLOW COMPLETION OF THEIR WORK AT AND ABOVE CEILINGS, PRIOR TO COMPLETION OF CEILINGS, UNLESS OTHERWISE INDICATED IN THE APPROVED PROJECT SCHEDULE.

G IN SPACES WITH CLOSETS, ALCOVES OR SIMILAR ANCILLARY AREAS, CEILING TYPES SHALL CONTINUE INTO THOSE AREAS UNLESS INDICATED OTHERWISE.

H LOCATE AND INSTALL CONTROL JOINTS IN GWB CEILINGS AS INDICATED, BUT NOT LESS THAN REQUIRED PER GYPSUM CONSTRUCTION HANDBOOK (CURRENT EDITION), SUBJECT TO APPROVAL BY ARCHITECT.

I PAINT GWB CEILINGS, SOFFITS, AND BULKHEADS UNLESS INDICATED OTHERWISE.

J PAINT EXPOSED STRUCTURAL ELEMENTS AND EXPOSED MISCELLANEOUS METALS EXPOSED AT CEILINGS UNLESS INDICATED OTHERWISE.

K PAINT EXPOSED WOOD GROUNDS, BACKERS, FILLERS, SPACERS AND OTHER UNFINISHED COMPONENTS ASSOCIATED WITH INSTALLATION OF EQUIPMENT OR ACCESSORIES TO MATCH CEILING SURFACE UNLESS INDICATED OTHERWISE.

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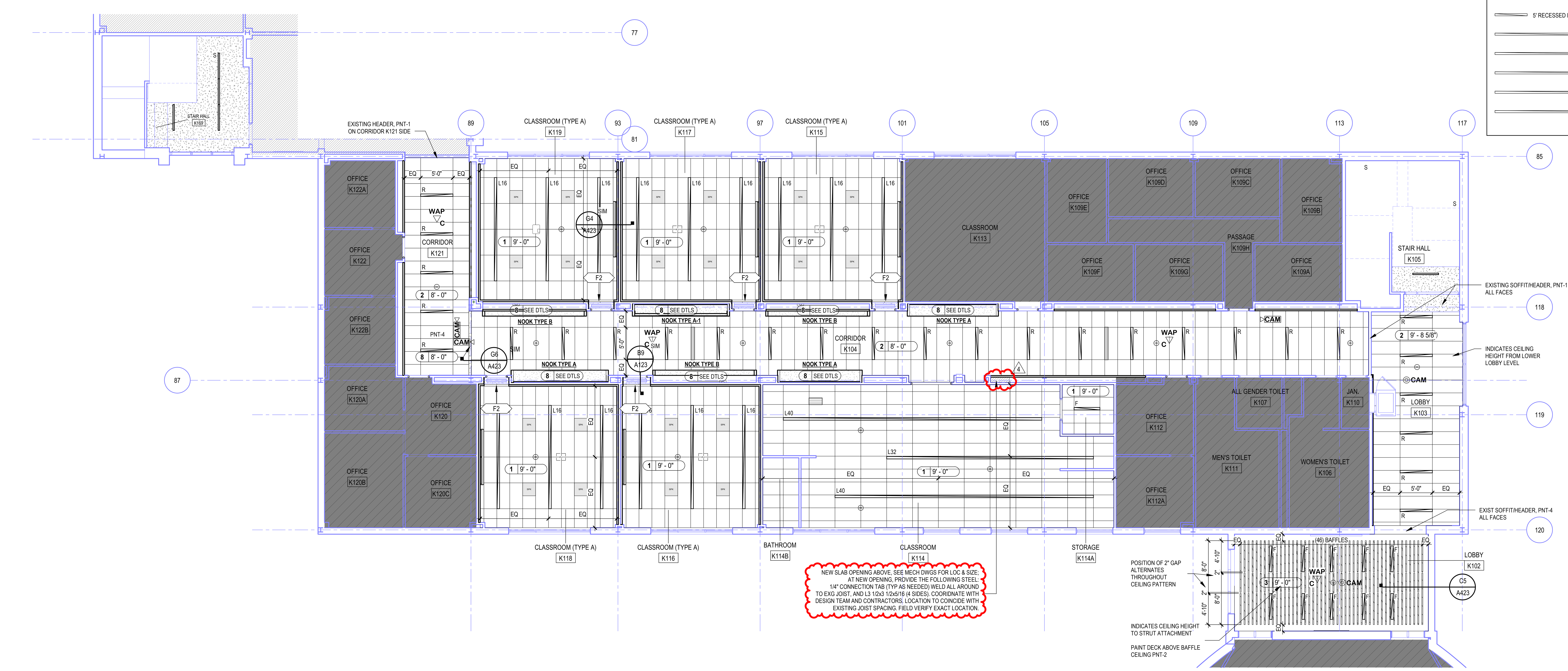
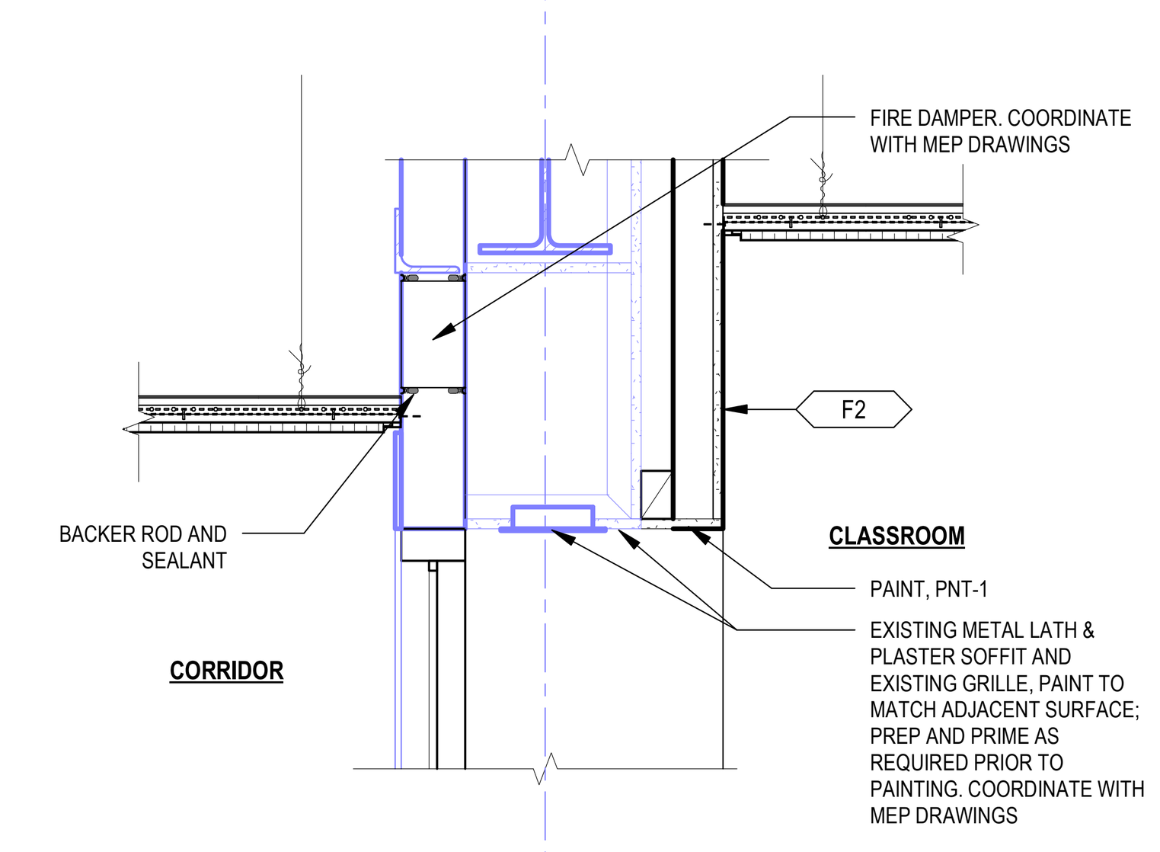
CEILING FIXTURE LEGEND

- 4' SURFACE MOUNTED STAIRWELL LIGHTING (S), MOUNTING HEIGHT AFF TO BE DETERMINED IN FIELD
- 4' LINEAR PENDANT (F), BOTTOM OF FIXTURE AT 8'-0" AFF @ K114A, REFER TO DETAIL FOR MOUNTING HEIGHT @ LOBBY K102
- 5' RECESSED LINEAR FIXTURE (R)
- 16' SUSPENDED LINEAR PENDANT (L16), BOTTOM OF FIXTURE AT 8'-0" AFF
- 24' SUSPENDED LINEAR PENDANT (L24), BOTTOM OF FIXTURE AT 8'-0" AFF
- 32' SUSPENDED LINEAR PENDANT (L32), BOTTOM OF FIXTURE AT 8'-0" AFF
- 40' SUSPENDED LINEAR PENDANT (L40), BOTTOM OF FIXTURE AT 8'-0" AFF
- 48' SUSPENDED LINEAR PENDANT (L48), BOTTOM OF FIXTURE AT 8'-0" AFF



A1 ENLARGED REFLECTED CEILING PLAN - FIRST FLOOR - SOUTH WING

1/8" = 1'-0"



B9 DETAIL - TYPICAL SOFFIT GRILLE DETAIL

1" = 1'-0"

ASHLEY McGRAW

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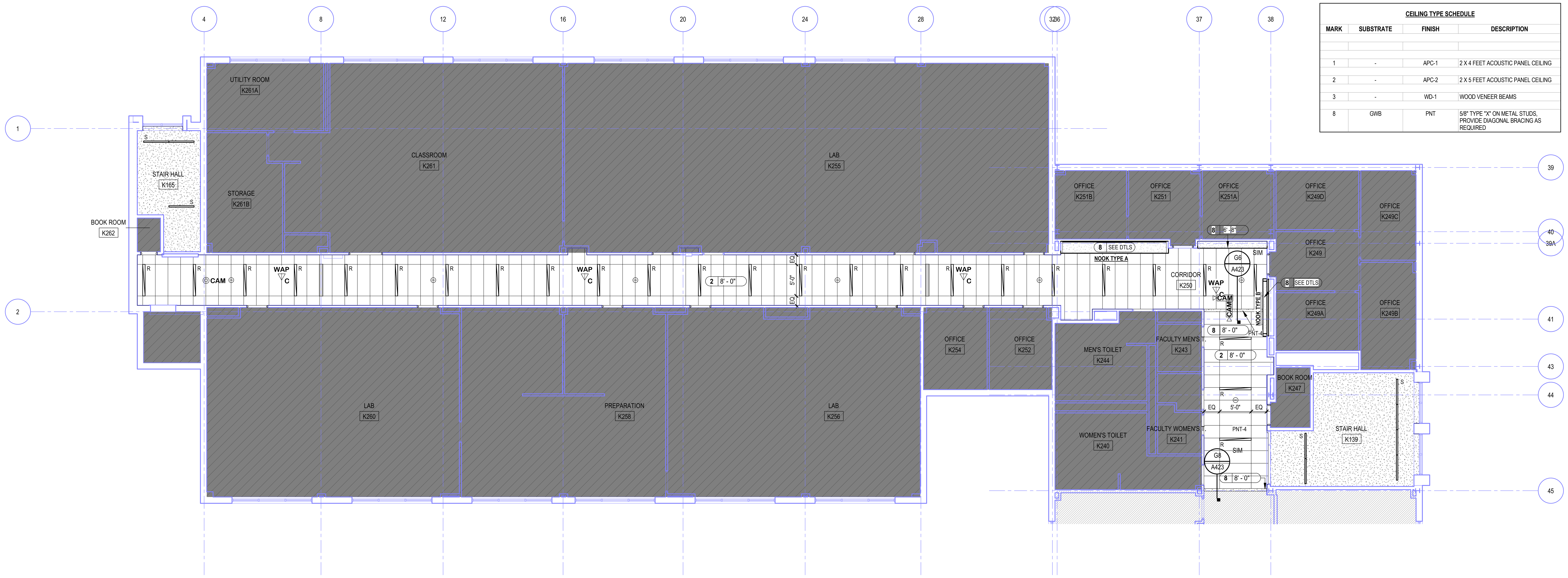
ENLARGED REFLECTED CEILING PLANS - FIRST FLOOR

KH A123



E1 ENLARGED REFLECTED CEILING PLAN - SECOND FLOOR - NORTH WING

1/8" = 1'-0"

SCOPE LEGEND

- PHASE 1 SCOPE
- PHASE 2 SCOPE
- NOT IN SCOPE

CEILING TYPE SCHEDULE

MARK	SUBSTRATE	FINISH	DESCRIPTION
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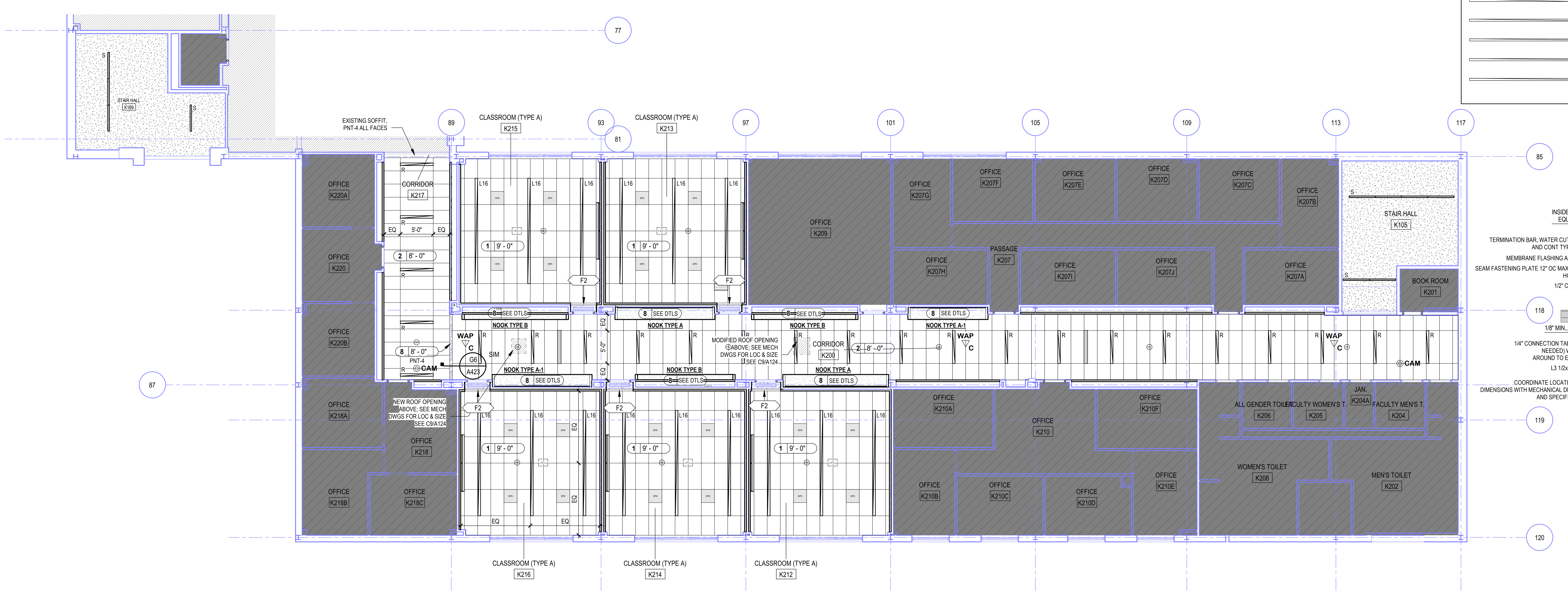
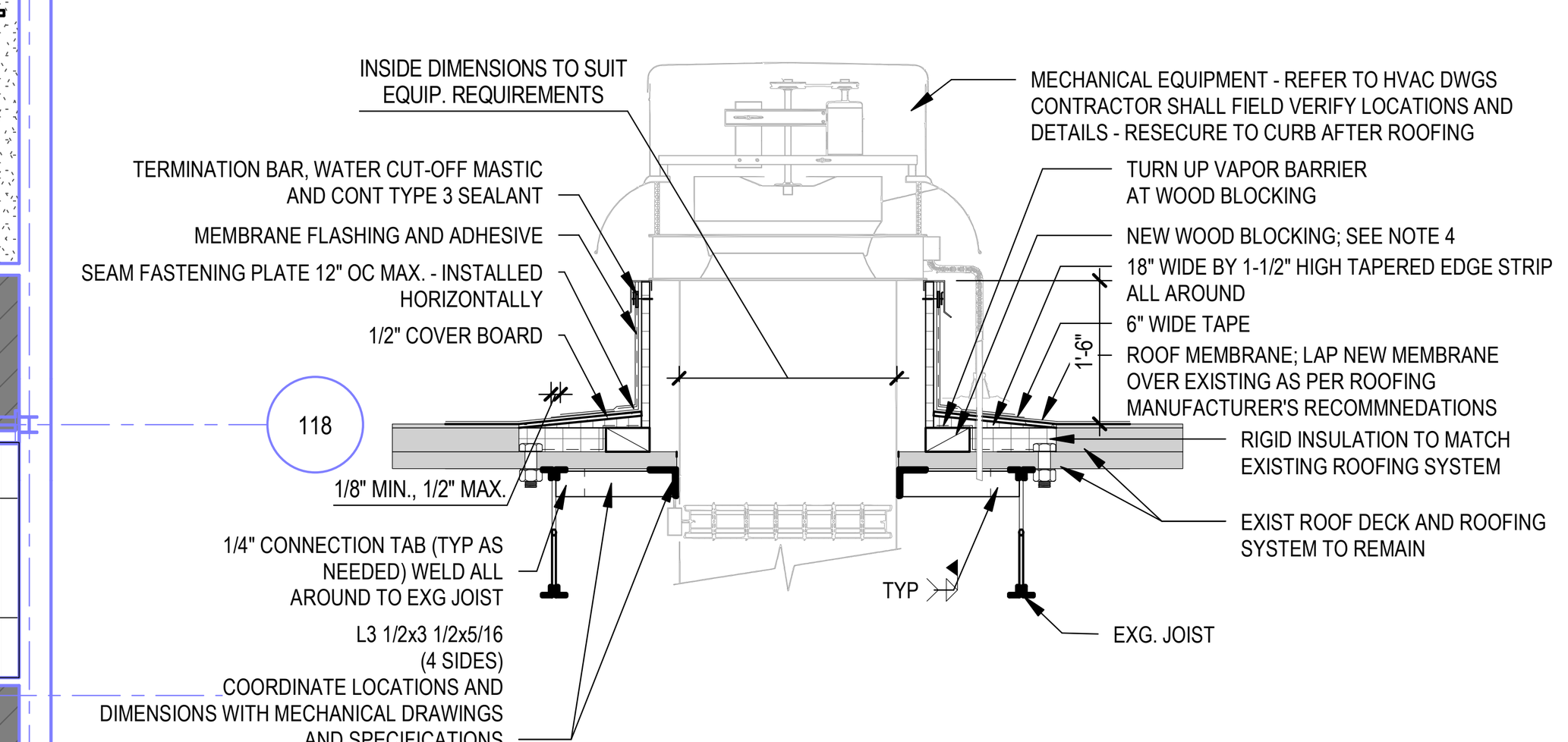


A1 ENLARGED REFLECTED CEILING PLAN - SECOND FLOOR - SOUTH WING

1/8" = 1'-0"



NOTES:
1. FIELD VEIFY EXG BEAMS & JOIST SIZE & LOCATIONS.
2. PROVIDE AT EXHAUST FANS, MECHANICAL OPENINGS, AND UNDER MECH. UNIT CURBS
3. VERIFY ALL OPENING LOCATIONS W/ MECHANICAL DWGS.
4. PROVIDE NEW PT WOOD BLOCKING AT NEW CURBS OR CONTRACTOR TO DETERMINE HEIGHT OF EXISTING CURBS AND ADD BLOCKING AS REQUIRED TO RAISE TOP OF FLASHING 18" MINIMUM OFF FINISHED ROOF. 4
5.DOUBLE FLASH ALL INSIDE AND OUTSIDE CURB CORNERS
6. IF VERTICAL SPLICES IS NOT LOCATED AT CORDER, 6" WIDE PRESSURE-SENSITIVE FLASHING MUST BE CENTERED OVER FIELD SPLICE AT ANGLE.
7. FASTENING PLATES MAY ONLY BE INSTALLED VERTICALLY WITH PRIOR APPROVAL BY DIRECTOR'S REPRESENTATIVE.
8. APPLY PRIMER PRIOR TO INSTALLING TAPE.
9. MANUFACTURER'S RECOMMENDED SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED MEMBRANE.
11. AT MECHANICAL PENETRATIONS, EXTEND CURB FLASHING UP AND OVER THE TOP CURB.
~~12. COORDINATE ALL PROPOSED DETAI~~LING AND WORK WITH EXISTING ROOF SYSTEM MANUFACTURER. ~~PROVIDE WARRANTY FOR FIVE YEARS.~~ 4
~~13. COORDINATE WITH DETAIL 1/KH-H500.~~
14. EXISTING ROOFING IS: FULLY ADHERED SINGLE-PLY PVC ROOF MEMBRANE REPLACEMENT SYSTEM COMPLETED IN 1994; NON-REINFORCED RESTORATION COATING APPLIED IN 2012, WARRANTY EXPIRED IN 2017. CURRENTLY, NO ROOF WARRANTY. 4

C9 DETAIL - TYPICAL ROOF OPENING DETAIL

Not To Scale

NORTH

ASHLEY MCGRAW

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ENLARGED REFLECTED CEILING PLANS - SECOND FLOOR

KH
A124

DOOR AND FRAME SCHEDULE - PHASE 1

		DOOR											FRAME												
		LOCATION					SIZE							DETAIL											
FROM ROOM	TO ROOM	DOOR NO.	FUNCTION	PANEL 1	PANEL 2	PANEL MATL	PANEL 1 W	PANEL 2 W	W	H	TH	GLAZING	MATL	TYPE	HEAD	JAMB	THRESHOLD	GLAZING	HDWR SET	RATING	SMOKE	TEMP RISE	KEYED NOTES/REMARKS	ROOM NO.	DOOR NO.
FIRST FLOOR																									
CORRIDOR	PASSAGE	109H-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01A	20 MIN			1, 4, 5	K109H	109H-1
CORRIDOR	OFFICE	112-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 4, 5	K112	112-1
CORRIDOR	CLASSROOM	113-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 4, 5	K113	113-1
CLASSROOM	CORRIDOR	114-1	Interior	N425	N425	WD	3' - 0"	3' - 0"	6' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	TS-4		ER01B	20 MIN			1, 4, 5	K114	114-1
CORRIDOR	CLASSROOM (TYPE A)	115-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	TS-1		ER01	20 MIN			1, 2, 5	K115	115-1
CORRIDOR	CLASSROOM (TYPE A)	116-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	TS-1		ER01	20 MIN			1, 2, 5	K116	116-1
CORRIDOR	CLASSROOM (TYPE A)	117-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	TS-1		ER01	20 MIN			1, 2, 5	K117	117-1
CORRIDOR	CLASSROOM (TYPE A)	118-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	TS-1		ER01	20 MIN			1, 2, 5	K118	118-1
CORRIDOR	CLASSROOM (TYPE A)	119-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	TS-1		ER01	20 MIN			1, 2, 5	K119	119-1
OFFICE	CORRIDOR	120-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01A	20 MIN			1, 4, 5	K120	120-1
CORRIDOR	OFFICE	122-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 4, 5	K122	122-1
	OFFICE	149-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K149	149-1
OFFICE	CORRIDOR	150-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K150	150-1
CORRIDOR	OFFICE	151-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K151	151-1
OFFICE	CORRIDOR	152-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K152	152-1
CORRIDOR	MECHANICAL EQUIPMENT ROOM	153-1	Interior	F		WD			3' - 0"	7' - 4"	1 3/4"		HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	45 MIN			1, 3, 5	K153	153-1
CLASSROOM	CORRIDOR	154-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K154	154-1
CORRIDOR	CLASSROOM	155-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K155	155-1
STORAGE	CORRIDOR	156-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K156	156-1
CORRIDOR		157-1	Interior	N425	N425	WD	2' - 6"	2' - 6"	5' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01B	20 MIN			1, 3, 5	K157	157-1
CORRIDOR		157-2	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K157	157-2
LAB STORAGE	CORRIDOR	158-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K158	158-1
CORRIDOR	STORAGE	159-1	Interior	F		WD			3' - 0"	7' - 4"	1 3/4"		HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01A	20 MIN			1, 3, 5	K159	159-1
CORRIDOR	LAB	160-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K160	160-1
LAB	CORRIDOR	160-2	Interior	N425	N425	WD	2' - 6"	2' - 6"	5' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01B	20 MIN			1, 3, 5	K160	160-2
LAB	CORRIDOR	161-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K161	161-1
CORRIDOR	LAB	161-2	Interior	N425	N425	WD	2' - 6"	2' - 6"	5' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01B	20 MIN			1, 3, 5	K161	161-2
CLASSROOM (TYPE A SIM.)	CORRIDOR	162-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	TS-1		ER01	20 MIN			1, 3, 5	K162	162-1
CORRIDOR	CLASSROOM	163-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K163	163-1
SECOND FLOOR																									
CORRIDOR	BOOK ROOM	201-1	Interior	F		WD			2' - 8"	7' - 4"	1 3/4"		HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01A	20 MIN			1, 4, 5	K201	201-1
CORRIDOR	PASSAGE	207-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01A	20 MIN			1, 4, 5	K207	207-1
CORRIDOR	PASSAGE	207-2	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 4, 5	K207	207-2
CORRIDOR	OFFICE	209-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 4, 5	K209	209-1
CORRIDOR	OFFICE	210-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 4, 5	K210	210-1
CORRIDOR	CLASSROOM (TYPE A)	212-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	TS-1		ER01	20 MIN			1, 2, 5	K212	212-1
CORRIDOR	CLASSROOM (TYPE A)	213-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	TS-1		ER01	20 MIN			1, 2, 5	K213	213-1
CORRIDOR	CLASSROOM (TYPE A)	214-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	TS-1		ER01	20 MIN			1, 2, 5	K214	214-1
CORRIDOR	CLASSROOM (TYPE A)	215-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	TS-1		ER01	20 MIN			1, 2, 5	K215	215-1
CORRIDOR	CLASSROOM (TYPE A)	216-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	TS-1		ER01	20 MIN			1, 2, 5	K216	216-1
OFFICE	CORRIDOR	218-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01A	20 MIN			1, 4, 5	K218	218-1
CORRIDOR	OFFICE	220-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 4, 5	K220	220-1
STUDENT LOUNGE	BOOK ROOM	222-1	Interior	F		WD			3' - 0"	7' - 4"	1 3/4"		HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01A	20 MIN			1, 4, 5	K222	222-1
	BOOK ROOM	247-1	Interior	F		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01A	20 MIN			1, 3, 5	K247	247-1
	OFFICE	249-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K249	249-1
CORRIDOR	OFFICE	251-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K251	251-1
OFFICE	CORRIDOR	252-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K252	252-1
OFFICE	CORRIDOR	254-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K254	254-1
CORRIDOR	LAB	255-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K255	255-1
LAB	CORRIDOR	255-2	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01D	20 MIN			1, 3, 5	K255	255-2
CORRIDOR	LAB	255-3	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K255	255-3
LAB	CORRIDOR	256-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01D	20 MIN			1, 3, 5	K256	256-1
LAB	CORRIDOR	256-2	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01D	20 MIN			1, 3, 5	K256	256-2
PREPARATION	CORRIDOR	258-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01	20 MIN			1, 3, 5	K258	258-1
LAB	CORRIDOR	260-1	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01D	20 MIN			1, 3, 5	K260	260-1
LAB	CORRIDOR	260-2	Interior	N425		WD			3' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01D	20 MIN			1, 3, 5	K260	260-2
CLASSROOM	CORRIDOR	261-1	Interior	N425	N425	WD	2' - 6"	2' - 6"	5' - 0"	7' - 4"	1 3/4"	FRG-1	HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01E	20 MIN			1, 3, 5	K261	261-1
BOOK ROOM	CORRIDOR	262-1	Interior	F		WD			2' - 4"	7' - 4"	1 3/4"		HM	F01	EXISTING - VIF	EXISTING - VIF	EXISTING - VIF		ER01C	20 MIN			1, 3, 5	K262	262-1

GENERAL DOOR, FRAME, AND HARDWARE NOTES

A THESE NOTES APPLY TO EXISTING SPACES AND BUILDING CONSTRUCTION AFFECTED BY THE WORK.

B THE DOOR SCHEDULE IS INTENDED AS A SUMMARY, BUT MAY NOT REPRESENT ALL OF THE DOORS, FRAMES AND HARDWARE REQUIRED TO COMPLETE THE WORK. THE DOOR SCHEDULE AND THE REMAINDER OF THE CONSTRUCTION DOCUMENTS ARE COMPLIMENTARY, AS ADDITIONAL INFORMATION REQUIRED TO COMPLETE THE DOORS, FRAMES, AND HARDWARE MAY BE INDICATED THROUGHOUT.

C IT IS INTENDED THAT ALL NEW DOORS RECEIVE HARDWARE. WHERE HARDWARE SETS ARE NOT INDICATED CONTRACTOR SHALL INCLUDE IN THEIR BID HARDWARE OF TYPE AND FUNCTION SIMILAR TO DOORS OF LIKE USE OR LOCATION.

D WHERE NEW HARDWARE IS INSTALLED ON AN EXISTING DOOR OR FRAME, THE CONTRACTOR SHALL INCLUDE ALL MACHINING AND PATCHING OF THE EXISTING SURFACES WITH IN-KIND MATERIALS AND FINISHES, OR WHERE APPROVED BY ARCHITECT, PROVIDE ALTERNATIVE METHODS TO CONCEAL REMEDIAL WORK.

E WOOD LITE KITS AND GLAZING STOPS SHALL BE OF SPECIES AND FINISH TO MATCH DOOR.

F METAL HARDWARE ACCESSORIES, SUCH AS ASTRAGALS, REMOVABLE MULLIONS, OR LITE KITS SHALL BE PAINTED PRIOR TO INSTALLATION, TO MATCH DOOR, IN COLOR SELECTED BY ARCHITECT.

G TOPS AND BOTTOMS OF DOORS THAT ARE FIELD CUT SHALL RECEIVE TWO COATS OF CLEAR SEALER AT STAINED DOORS, OR OTHERWISE FINISHED IN-KIND TO MATCH DOOR FACE.

H ALL EXSITING DOOR FRAMES THAT HAVE DENTS AND OTHER COSMETIC DEFECTS SHALL BE INFILLED WITH EPOXY. EPOXY SHOULD BE GRINDED SMOOTH. PAINT FRAME.

I ALL EXISTING DOOR FRAMES THAT HAVE HOLES AND OTHER DEFECTS THAT AFFECT THE FIRE RATING SHALL BE WELDED AND GROUND SMOOTH.

J ALL HOLLOW METAL DOOR FRAMES TO REMAIN, UNLESS NOTED OTHERWISE.

K PROVIDE NEW FRAME RATING LABELS TO COORDINATE WITH CODE REQUIREMENTS.

L OFFER ALL DOORS AND DOOR HARDWARE REMOVED DURING DEMOLITION TO OWNERS REPRESENTATIVE FOR SELECTIVE STOCK, ITEMS NOT ACCEPTED BY OWNER TO BE REMOVED FROM SITE.

M FIELD LABEL RATING ON EXISTING DOOR FRAME BY INDEPENENT AND UL APPROVED TESTING AGENCY.

N THE CONTRACTOR SHALL ASSUME RESPONSIBILTY FOR ALL ACCESSORIES AND ITEMS REQUIRED FOR A COMPLETE AND PROPER INSTALLATION PER THE MANUFACTURER'S RECOMMENDATIONS.

O NO THRU-BOLTING.

P ALL HARDWARE TO MEET ALL ADA REQUIREMENTS INCLUDING BUT NOT LIMITED TO MOUNTING HEIGHTS ABOVE FINISHED FLOOR.

Q RETROFIT ITEMS FOR ALL EXISTING HOLLOW METAL FRAMES TO REMAIN. ONSITE VISIT REQUIRED TO VERIFY HINGE SIZE AND LOCATION AND STRIKE LOCATION. FIELD PREP OR MODIFY EXISTING FRAME TO RECEIVE NEW ELECTRIC STRIKE. FILL ALL EXPOSED HOLES IN EXISTING FRAME FROM PREVIOUS HARDWARE IN AN AESTHETICALLY PLEASING MANNER. PREP, PRIME AND FINISH PAINT.

DOOR SCHEDULE KEYED NOTES

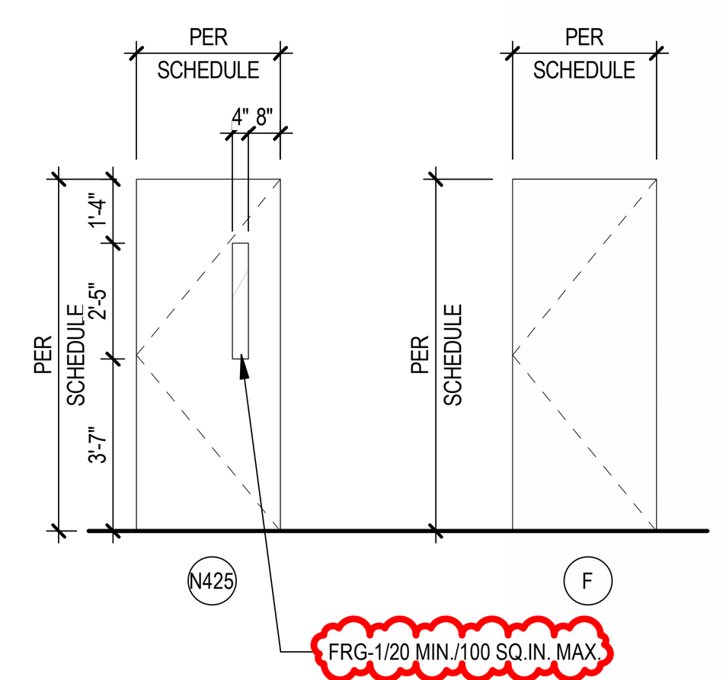
1 REMOVE EXISTING DOOR AND HARDWARE, PROVIDE NEW DOOR AND HARDWARE. AT EXISTING HM FRAMES THAT ARE TO REMAIN, FILL ALL EXISTING HOLES, REPAIR ALL IMPERFECTIONS AND PREP, PRIME AND PAINT. CONTRACTOR SCOPE TO INCLUDE FIELD LABELING OF EXISTING HM FRAMES BY INDEPENDENT AND UL APPROVED TESTING AGENCY. AT FRAMES WHERE DOOR SWINGS SWITCHED FROM OR TO CORRIDORS, WELD IN STEEL PLATES WHERE HINGES WERE REMOVED AND GRIND SMOOTH (255-1, 255-3, 256-1, 256-2, 260-1, 260-2).

2 BASE BID: CLASSROOM DOOR REPLACEMENT

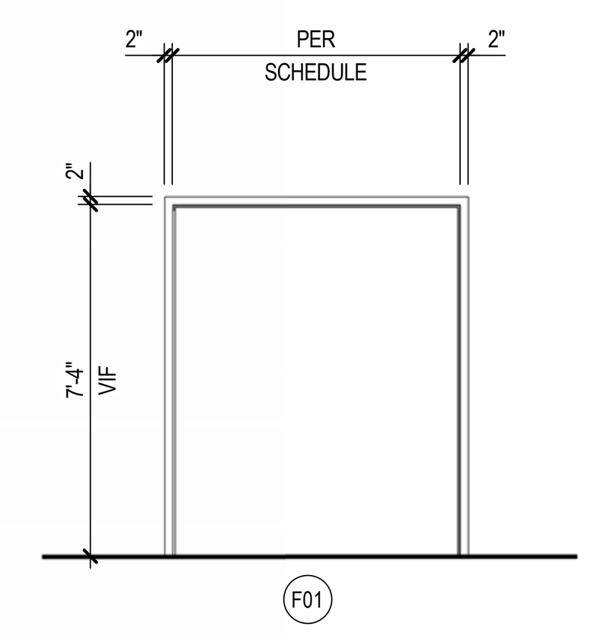
3 ALTERNATE G-01: NORTH WING DOOR REPLACEMENT - FIRST AND SECOND FLOOR

4 ALTERNATE G-02: SOUTH WING DOOR REPLACEMENT - FIRST AND SECOND FLOOR

5 PREP FOR CARD ACCESS



DOOR TYPES



FRAME TYPES

ALL FRAMES ARE EXISTING HOLLOW METAL TO REMAIN. VERIFY ALL CONDITIONS IN THE FIELD.

ASHLEY MCGRAW

125 EAST JEFFERSON STREET
SYRACUSE, NEW YORK 13202

CONSULTANT:

SEAL: 01/06/2025 ISSUE FOR BID

OWNER:
ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
95 FRANKLIN STREET, SUITE 1400
BUFFALO, NY 14202
ECDPW PROJECT #: 2021-956-01

SUNY ECC NORTH CAMPUS KITTINGER HALL
CLASSROOM INFRASTRUCTURE PHASE 1 IMPROVEMENTS
6205 MAIN STREET, WILLIAMSVILLE, NY 14221

AM JOB NO. 21138

REV. NO.	REV. DATE	REV. DESCRIPTION
1	01/14/25	Addendum 01
4	01/30/25	Addendum 04

DATE ISSUED: 01/06/2025

DOOR SCHEDULE AND DETAILS

KH
A601

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR SUBSTRATE	FLOOR FINISH	WALLS – BASE SUBSTRATE	BASE FINISH	NORTH SUBSTRATE	NORTH FINISH	SOUTH SUBSTRATE	SOUTH FINISH	EAST SUBSTRATE	EAST FINISH	WEST SUBSTRATE	WEST FINISH	REMARKS / ROOM FINISH SCHEDULE KEYED NOTES	ROOM NO.
FIRST FLOOR															
K103	LOBBY	CONC	CPT-1	GWB / EXIST TILE	RB-2	GWB / EXIST TILE	PNT	EXIST BRICK	--	EXIST BRICK	--	GWB / EXIST TILE	PNT/WD-2	2, 3, 4	K103
K104	CORRIDOR	CONC	TERR-1 (4)	GWB / EXIST TILE	RB-2	GWB / EXIST TILE	PNT/WC-1/WC-2/WC-3	GWB / EXIST TILE	PNT/WC-1/WC-2/WC-3	--	--	--	--	4	K104
K105	STAIR HALL	CONC	--	EXIST TILE	RB-2	EXIST TILE	PNT-5	EXIST TILE	PNT-5	EXIST TILE	PNT-5	EXIST TILE	PNT-5	1, 2	K105
K115	CLASSROOM (TYPE A)	CONC	RT-1/RT-2	GWB / EXIST CMU	RB-1	EXIST CMU	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1		K115
K116	CLASSROOM (TYPE A)	CONC	RT-1/RT-2	GWB / EXIST CMU	RB-1	GWB	PNT-1	EXIST CMU	PNT-1	GWB	PNT-1	GWB	PNT-1		K116
K117	CLASSROOM (TYPE A)	CONC	RT-1/RT-2	GWB / EXIST CMU	RB-1	EXIST CMU	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1		K117
K118	CLASSROOM (TYPE A)	CONC	RT-1/RT-2	GWB / EXIST CMU	RB-1	GWB	PNT-1	EXIST CMU	PNT-1	GWB	PNT-1	GWB	PNT-1		K118
K119	CLASSROOM (TYPE A)	CONC	RT-1/RT-2	GWB / EXIST CMU	RB-1	EXIST CMU	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1		K119
K121	CORRIDOR	CONC	TERR-1 (4)	GWB / EXIST TILE	RB-2	--	--	--	--	GWB / EXIST TILE	PNT/WC-3	GWB	PNT	4	K121
K139	STAIR HALL	CONC	CPT-1	EXIST TILE	RB-2	EXIST TILE	PNT-5	EXIST TILE	PNT-5	EXIST BRICK	--	EXIST TILE	PNT-5	1, 2, 3	K139
K162	CLASSROOM (TYPE A SIM.)	CONC	RT-1/RT-2	GWB / EXIST CMU	RB-1	GWB	PNT-1	EXIST CMU	PNT-1	GWB	PNT-1	GWB	PNT-1		K162
K165	STAIR HALL	CONC	CPT-1 (4)	EXIST TILE	RB-2	EXIST BRICK	--	EXIST TILE	PNT-5	EXIST TILE	PNT-5	EXIST TILE	PNT-5	1, 2, 3	K165
K166	CORRIDOR	CONC	TERR-1	GWB / EXIST TILE	RB-2	EXIST CMU / EXIST TILE / GWB	PNT/WC-1/WC-2	EXIST CMU / EXIST TILE	PNT	GWB / EXIST TILE	PNT/WC-1/WC-3	EXIST CMU / EXIST TILE	PNT	4	K166
K169	STAIR HALL	CONC	CPT-1 (4)	EXIST TILE	RB-2	EXIST TILE	PNT-5	EXIST TILE	PNT-5	EXIST TILE / EXIST BRICK	PNT-5	EXIST TILE	PNT-5	1, 2, 3	K169
AUD LEVEL															
K102	LOBBY	CONC	CPT-1	EXIST TILE	RB-2	EXIST BRICK	--	EXIST BRICK	--	EXIST BRICK	--	EXIST BRICK	--	3	K102
SECOND FLOOR															
K200	CORRIDOR	CONC	TERR-1	GWB / EXIST TILE	RB-2	GWB / EXIST TILE	PNT/WC-1/WC-2/WC-3	GWB / EXIST TILE	PNT/WC-1/WC-2/WC-3	EXIST CMU / EXIST TILE	PNT	--	--	4	K200
K212	CLASSROOM (TYPE A)	CONC	RT-1/RT-2	GWB / EXIST CMU	RB-1	GWB	PNT-1	EXIST CMU	PNT-1	GWB	PNT-1	GWB	PNT-1		K212
K213	CLASSROOM (TYPE A)	CONC	RT-1/RT-2	GWB / EXIST CMU	RB-1	EXIST CMU	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1		K213
K214	CLASSROOM (TYPE A)	CONC	RT-1/RT-2	GWB / EXIST CMU	RB-1	GWB	PNT-1	EXIST CMU	PNT-1	GWB	PNT-1	GWB	PNT-1		K214
K215	CLASSROOM (TYPE A)	CONC	RT-1/RT-2	GWB / EXIST CMU	RB-1	EXIST CMU	PNT-1	GWB	PNT-1	GWB	PNT-1	GWB	PNT-1		K215
K216	CLASSROOM (TYPE A)	CONC	RT-1/RT-2	GWB / EXIST CMU	RB-1	GWB	PNT-1	EXIST CMU	PNT-1	GWB	PNT-1	GWB	PNT-1		K216
K217	CORRIDOR	CONC	TERR-1	GWB / EXIST TILE	RB-2	--	--	--	--	GWB / EXIST TILE	PNT/WC-3	GWB / EXIST TILE	PNT	4	K217
K250	CORRIDOR	CONC	TERR-1	GWB / EXIST TILE	RB-2	EXIST CMU / EXIST TILE / GWB	PNT/WC-1/WC-2	EXIST CMU / EXIST TILE	PNT	GWB / EXIST TILE	PNT/WC-1/WC-3	EXIST CMU / EXIST TILE	PNT	4	K250

FINISH MATERIAL LEGEND

MATERIAL	MANUFACTURER	DESCRIPTION / STYLE	COLOR	SIZE
CARPET TILE				
CPT-1	INTERFACE	STEP REPEAT SR899	MIDNIGHT 104922	50CM X 50CM
FABRICS				
FAB-1	CF STINSON	FUSE 2.0 FSE	223 AQUA	--
PAINT				
PNT-1	SHERWIN WILLIAMS	REPOSE GRAY	SW7015	--
PNT-2	SHERWIN WILLIAMS	COMPOSED	SW6427	--
PNT-3	SHERWIN WILLIAMS	GRIZZLE GRAY	SW7068	--
PNT-4	SHERWIN WILLIAMS	CEILING BRIGHT WHITE	SW7007	--
PNT-5	WOLF GORDON SCUFFMASTER	SCRUBTOUGH	COLOR TO MATCH SHERWIN WILLIAMS MINDFUL GRAY 7016	--
PNT-6	SHERWIN WILLIAMS	BRACING BLUE	SW6242	--
PHENOLIC LOCKERS				
LKR-1	COLUMBIA LOCKERS	BLACK CORE PHENOLIC CLASS A	8200K-16 WHITE DRIFTWOOD	18"W X 15"D X 72"H (TWO TIER)
PLASTIC LAMINATE				
PLAM-1	WILSONART	HIGH PRESSURE LAMINATE	HIGH RISE 4996-38, FINE VELVET FINISH	--
PLAM-2	FORMICA	HIGH PRESSURE LAMINATE	NAVY GRAFIX 7018-58, MATTE TEXTURE	--
RESILIENT BASE				
RB-1	JOHNSONITE BASEWORKS	THERMOSET RUBBER	20 CHARCOAL WG	4"
RB-2	JOHNSONITE BASEWORKS	THERMOSET RUBBER	20 CHARCOAL WG	6"
RESILIENT FLOORING				
RT-1	PATCRAFT	CURVED	IVORY WILLOW 00125	9" X 36"
RT-2	PATCRAFT	WOODTONE	WILLOW 00135	9" X 36"
TACKABLE FABRIC WRAPPED PANELS				
TAC-1	USG	MICORE, 1/2" THICK FIBERBOARD FABRIC-WRAPPED PANEL	CARNEGIE XOREL, STRIE 6423, COLOR 818	REFER TO ELEVATIONS
TERRAZZO REFINISHING				
TERR-1	EXISTING	REFINISHING OF EXISTING TERRAZZO FLOORING	-	--
TILE				
CT-1	AMERICAN OLEAN	COLOR STORY WALL	MATTE DESIGNER WHITE 0061	NOMINAL 4"X12" CUT TO SIZE
WALL COVERING				
WC-1	KOROSEAL	ARBOR WOOD VENEER	OAK, WHITE RIFT CUT - AA5621	--
WC-2	FILZFELT	FELT	427 STEIN	3MM
WC-3	KOROSEAL	ARCO	HANNA RA21-06	--
WOOD				
WD-1	CERTAINTEED	WOOD VENEER BEAMS	RIFT CUT WHITE OAK VRO0	2" WIDE X 6" HIGH
WD-2		SOLID WOOD WALL SLATS	CLEAR WHITE OAK TO MATCH WD-1	2" WIDE X 3/4" DEEP

ROOM FINISH SCHEDULE KEYED NOTES

1 ALTERNATE G-05: ALL EXISTING CERAMIC WALL TILE WITHIN STAIR HALL TO BE PAINTED PNT-5, NO NEW PAINTING AT CMU ABOVE. AT AREAS OF DAMAGED CERAMIC WALL TILE, PATCH WITH CT-1 BEFORE INSTALLING NEW FINISHES

2 NEW CARPET AND/OR REFINISHED TERRAZZO AT MAIN LANDINGS ONLY. STAIR TREADS, RISERS AND INTERMEDIATE LANDINGS NOT INCLUDED IN SCOPE

3 DO NOT APPLY PAINT AT BRICK WALLS. AT EXISTING TILE BASE BELOW BRICK WALLS, PATCH DAMAGED TILES AS REQUIRED WITH CT-1, PREPARE TILE SUBSTRATE TO RECEIVE RESILIENT BASE. RB-1 OR RB-2 MAY BE USED DEPENDING ON HEIGHT OF TILE BASE BELOW BRICK.

4 AT AREAS OF DAMAGED CERAMIC WALL TILE, PATCH WITH CT-1 BEFORE INSTALLING NEW FINISHES

GENERAL FINISH NOTES

A GENERAL NOTES APPLY TO THE INTENDED WORK INCLUDED IN THE CONTRACT DOCUMENTS.

B THE ROOM FINISH SCHEDULE IS GENERAL IN NATURE, AND IS INTENDED AS A SUMMARY OF THE DESIRED FINISHES FOR EACH SPACE LISTED, BUT MAY NOT REPRESENT ALL OF THE FINISHES REQUIRED TO COMPLETE THE WORK. THE ROOM FINISH SCHEDULE AND THE REMAINDER OF THE CONSTRUCTION DOCUMENTS ARE COMPLIMENTARY, AS ADDITIONAL FINISH INFORMATION MAY BE INDICATED THROUGHOUT.

C IT IS INTENDED THAT EXPOSED AND SEMI-EXPOSED SURFACES SHALL RECEIVE FINISH, MATCHING ADJACENT OR OTHER LIKE SURFACES WITHIN THE PROJECT, EVEN IF NOT SPECIFICALLY INDICATED IN THE CONSTRUCTION DOCUMENTS.

D SHOULD CONFLICTS EXIST WITHIN THE CONSTRUCTION DOCUMENTS, OR FINISHES ARE NOT INDICATED FOR NEW CONSTRUCTION ITEMS, VERIFY INTENT WITH ARCHITECT PRIOR TO BIDDING. CLARIFICATIONS ISSUED AFTER BIDDING SHALL NOT BE BASIS FOR ADDITIONAL COMPENSATION.

E COLORS/TEXTURES INDICATED ARE THOSE OF THE BASIS-OF-DESIGN MANUFACTURER/FINISH. APPROVED SUBSTITUTIONS SHALL BE PROVIDED IN COLOR/TEXTURE MATCHING THE BASIS-OF-DESIGN, INCLUDING CUSTOM COLORS/TEXTURES, AT NO ADDITIONAL COST.

F WHERE COLORS/TEXTURES ARE NOT INDICATED, THEY SHALL BE SELECTED FROM FULL RANGE OF OPTIONS FROM BASIS-OF-DESIGN MANUFACTURER. APPROVED SUBSTITUTIONS SHALL BE PROVIDED IN COLOR/TEXTURE MATCHING THE FULL RANGE OF OPTIONS FROM BOTH THE SUBSTITUTE AND BASIS-OF-DESIGN MANUFACTURERS' FULL RANGE OF OPTIONS, INCLUDING CUSTOM COLORS/TEXTURES, AT NO ADDITIONAL COST.

G PROVIDE PREPARATION OF SURFACES TO RECEIVE FINISH PER REVIEWED SUBMITTALS, RECOMMENDED METHODS AND GUIDELINES OF INDUSTRY STANDARDS, MANUFACTURER'S INSTRUCTIONS, AND SPECIFICATIONS INCLUDING MANUALS AND PUBLICATIONS LISTED THEREIN, UNLESS OTHERWISE INDICATED.

H WHERE EXISTING CEILINGS ARE RAISED OR REMOVED, IT IS INTENDED THAT THE NEWLY EXPOSED WALL SHALL BE PATCHED AND FINISHED, AND FINISHES EXTENDED TO THE NEW CEILING/DECK.

I PAINT WALLS AFFECTED BY THE WORK UNLESS OTHERWISE INDICATED.

J PAINT HM DOORS AND FRAMES UNLESS OTHERWISE INDICATED.

K PAINT EXPOSED OR SEMI-EXPOSED STEEL STAIR AND RAILING CONSTRUCTION UNLESS OTHERWISE INDICATED.

L PAINT EXPOSED STRUCTURAL ELEMENTS AND EXPOSED MISCELLANEOUS METALS EMBEDDED IN WALLS TO MATCH ADJACENT SURFACE UNLESS OTHERWISE INDICATED.

M PAINT EXPOSED WOOD GROUNDS, BACKERS, FILLERS, SPACERS AND OTHER UNFINISHED COMPONENTS ASSOCIATED WITH INSTALLATION OF EQUIPMENT OR ACCESSORIES TO MATCH ADJACENT SURFACE UNLESS OTHERWISE INDICATED.

N PAINT EXPOSED UNFINISHED PIPING, CONDUITS, JUNCTION BOXES, ETC. TO MATCH ADJACENT SURFACE UNLESS OTHERWISE INDICATED.

O PAINT ACCESS DOORS INSTALLED IN SURFACES OF DISSIMILAR COLOR TO MATCH SURFACE UNLESS OTHERWISE INDICATED.

P PAINT HVAC GRILLES AND REGISTERS INSTALLED IN SURFACES OF DISSIMILAR COLOR TO MATCH SURFACE UNLESS OTHERWISE INDICATED.

Q FLOOR FINISH SHALL CONTINUE UNDER OPEN BASE CASEWORK/MILLWORK AND OPEN COUNTERS.

R IN SPACES WITH CLOSETS, ALCOVES OR SIMILAR ANCILLARY AREAS, ADJACENT FINISHES SHALL CONTINUE INTO THOSE AREAS UNLESS OTHERWISE INDICATED.

S WHERE NEW FLOORING IS INSTALLED PROVIDE NEW RB IN COLOR SELECTED BY ARCHITECT, UNLESS OTHERWISE INDICATED.

T PROVIDE BASE AT CASEWORK AND MILLWORK TO MATCH ROOM, UNLESS NOTED OTHERWISE.

U WHERE COUNTERTOP FINISH IS NOT INDICATED PROVIDE SSM IN COLOR SELECTED BY ARCHITECT.

V PROVIDE SEALANT WHERE COUNTERTOPS/BACKSPLASHES MEET OTHER CONSTRUCTION, AFTER PAINTING IS COMPLETE: TYPE AND COLOR TO BE SELECTED BY ARCHITECT.

W FLOOR FINISH TRANSITIONS SHALL OCCUR AT FACE OF DOOR AT FRAME STOPS. AT TRANSITIONS BETWEEN MATERIALS OF UNEVEN THICKNESS, HIGH SIDE OF TRANSITION SHALL BE INSTALLED AT FACE OF DOOR AT FRAME STOPS. AT AMBIGUOUS CONDITIONS VERIFY INTENT WITH ARCHITECT PRIOR TO FLOORING INSTALLATION. PROVIDE A MOCK UP FOR EACH CONDITION FOR APPROVAL BY THE ARCHITECT AND OWNER.

X WHERE A FINISH OR MATERIAL TERMINATES RESULTING IN AN EXPOSED EDGE, PROVIDE A PRE-FINISHED EDGE, STANDARD TRIM OR TRANSITION, OR OTHER FINISHED DETAIL APPROVED BY ARCHITECT.

Y PAINT ALL EXPOSED CMU WALLS.

ASHLEY MCGRAW

125 EAST JEFFERSON STREET
SYRACUSE, NEW YORK 13202

CONSULTANT:

SEAL: 01/06/2025 ISSUE FOR BID

OWNER:
ERIE COUNTY DEPARTMENT OF PUBLIC WORKS
95 FRANKLIN STREET, SUITE 1400
BUFFALO, NY 14202
ECDPW PROJECT #: 2021-956-01

SUNY ECC NORTH CAMPUS KITTINGER HALL
CLASSROOM INFRASTRUCTURE PHASE 1 IMPROVEMENTS
6205 MAIN STREET, WILLIAMSVILLE, NY 14221

AM JOB NO. 21138

REV. NO.	REV. DATE	REV. DESCRIPTION
4	01/30/25	Addendum 04

DATE ISSUED: 01/06/2025

ROOM FINISH SCHEDULE

KH A602

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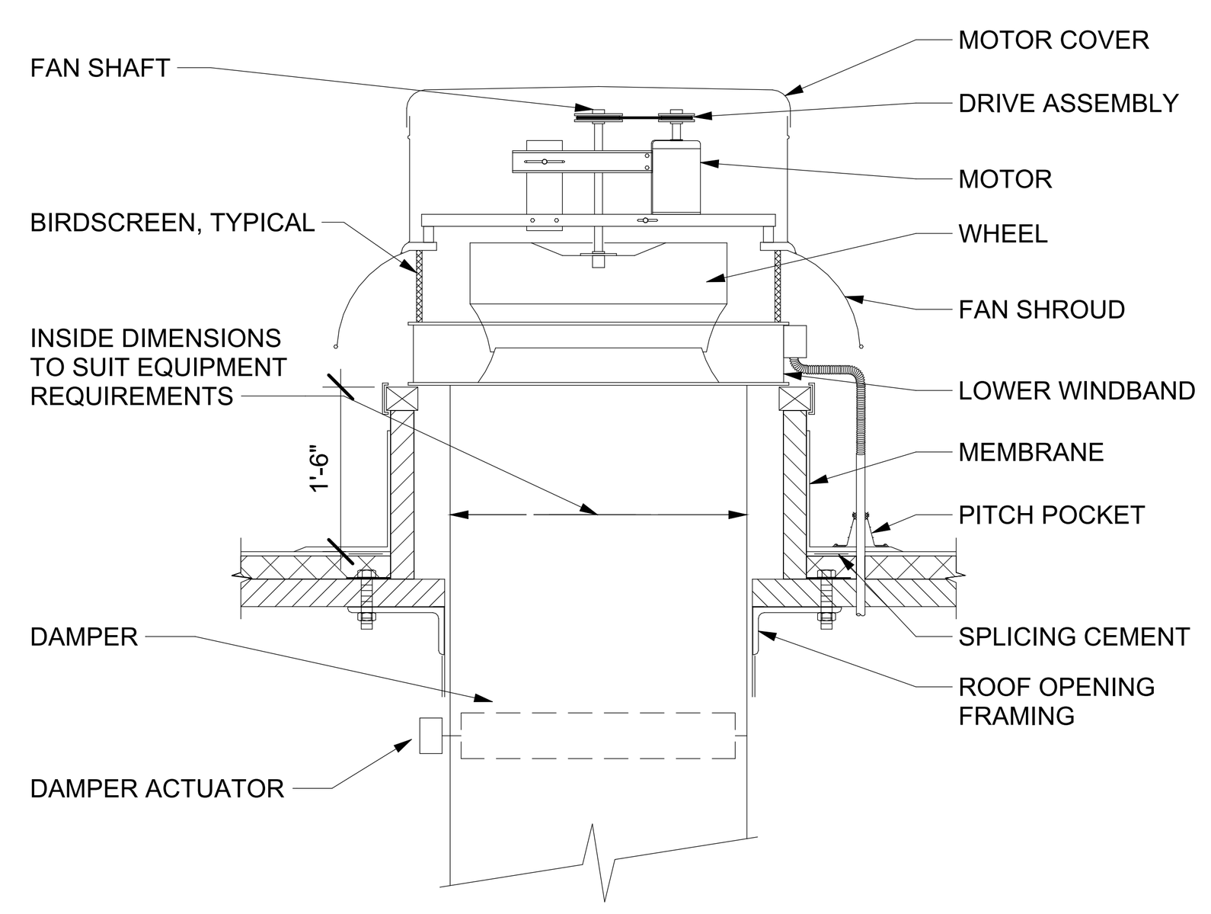
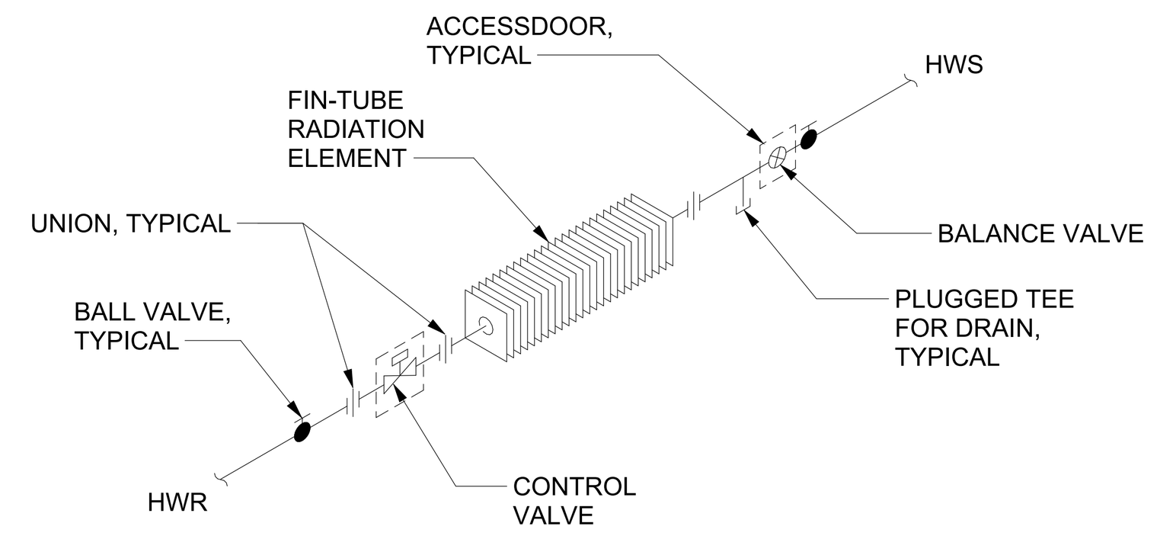


NOTES:
1. PROVIDE ATTACHMENT OF ROOF CURB TO STRUCTURE AND ATTACHMENT OF EQUIPMENT TO ROOF CURB PER SECTION 230550.
2. EXISTING ROOFING IS FULLY ADHERED SINGLE-PLY PVC ROOF MEMBRANE REPLACEMENT SYSTEM COMPLETED IN 1994; NON-REINFORCED RESTORATION COATING APPLIED IN 2012. WARRANTY EXPIRED IN 2017. CURRENTLY, NO ROOF WARRANTY.
3. PROVIDE WARRANTY FOR 5 YEARS. COORDINATE ALL PROPOSED DETAILING WORK WITH EXISTING ROOF SYSTEM MANUFACTURER.
4. DIRECT DRIVE AND EC MOTOR FANS SIMILAR.
5. COORDINATE ALL DETAILING WITH DETAIL C9/KH A124.

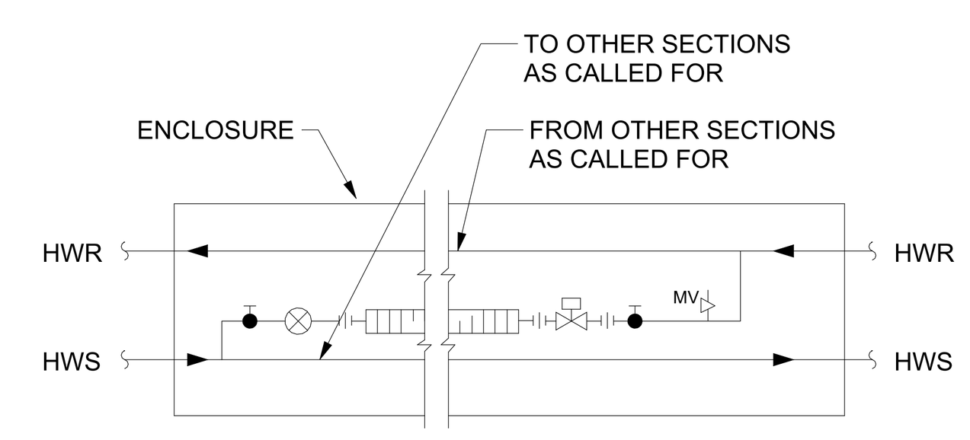
4

1 DOWN BLAST EXHAUST FAN DETAIL - FLAT ROOF
NTS

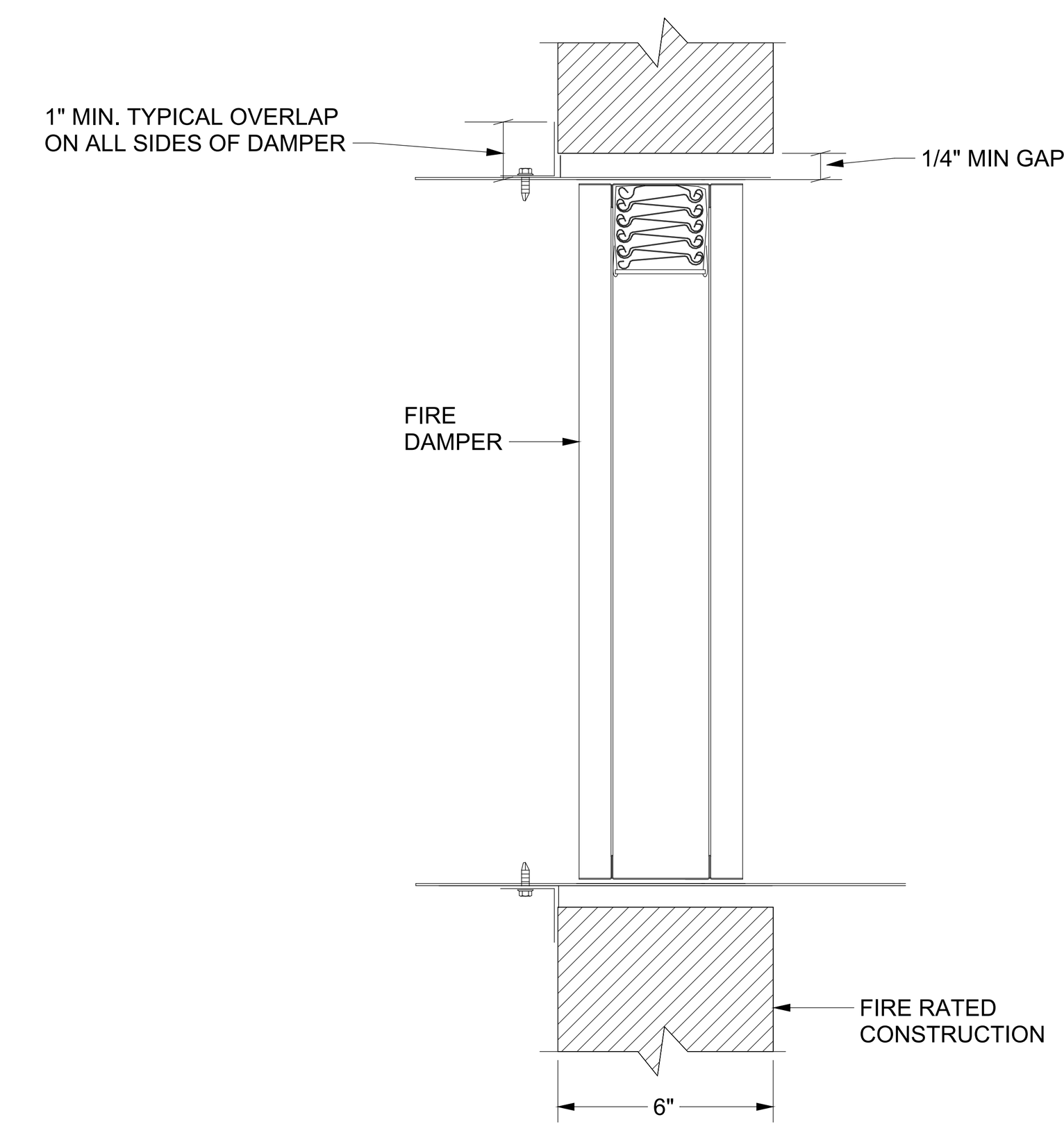


NOTES:
1. REFER TO PLANS & SPECIFICATIONS FOR TYPE OF ENCLOSURE AND FIN-TUBE CHARACTERISTICS.
2. WHEN FIN RADIATION IS INSTALLED IN CLASSROOMS WITH UNIT VENTS, VALVES SHALL BE LOCATED BEHIND FIN ENCLOSURE AS APPLICABLE. PROVIDE ACCESS DOORS TO SERVICE VALVES, CIRCUIT SETTERS, ETC.. DOOR FINISH TO MATCH FIN COVER.

2 FIN RADIATION PIPING DETAIL
NTS

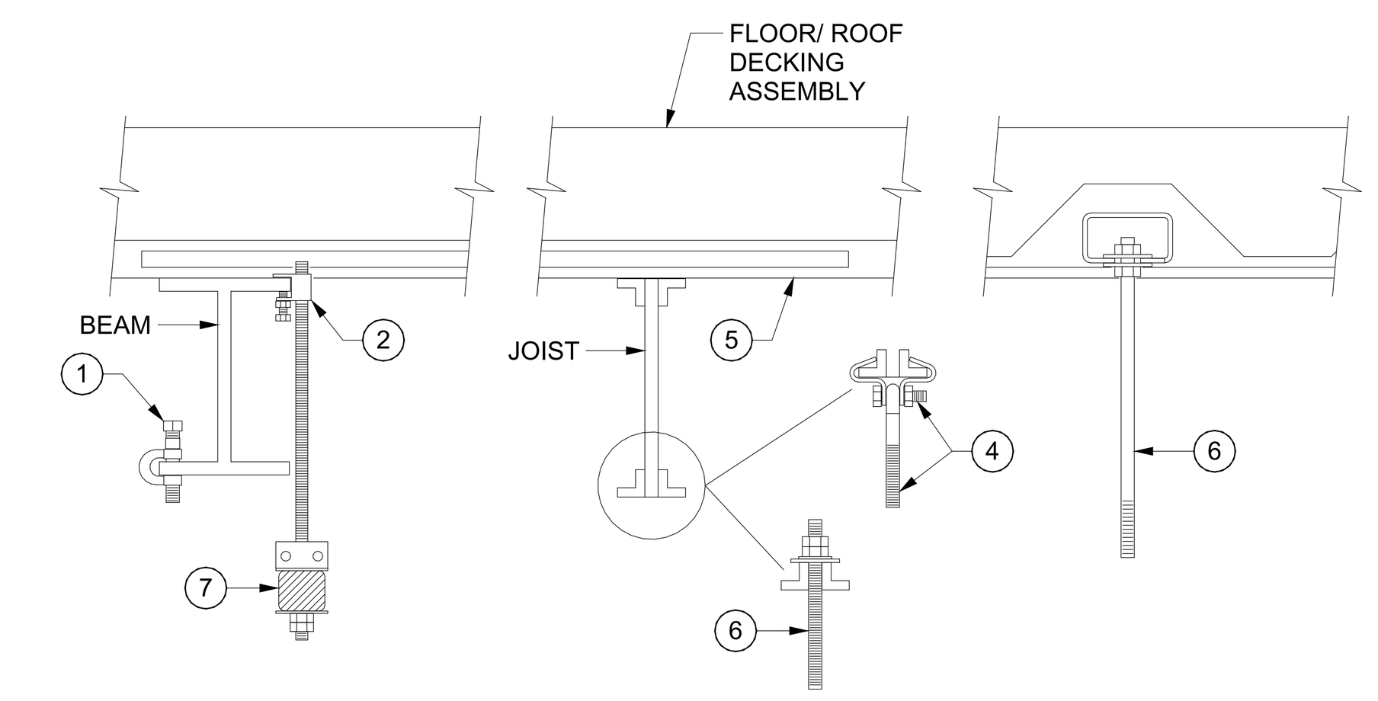


3 FIN RADIATION PIPING IN ENCLOSURE DETAIL - HOT WATER
NTS



NOTES:
1. THE MC SHALL COORDINATE INSTALLATION OF STUD FRAMING AROUND SLEEVE WITH THE GC.
2. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS.

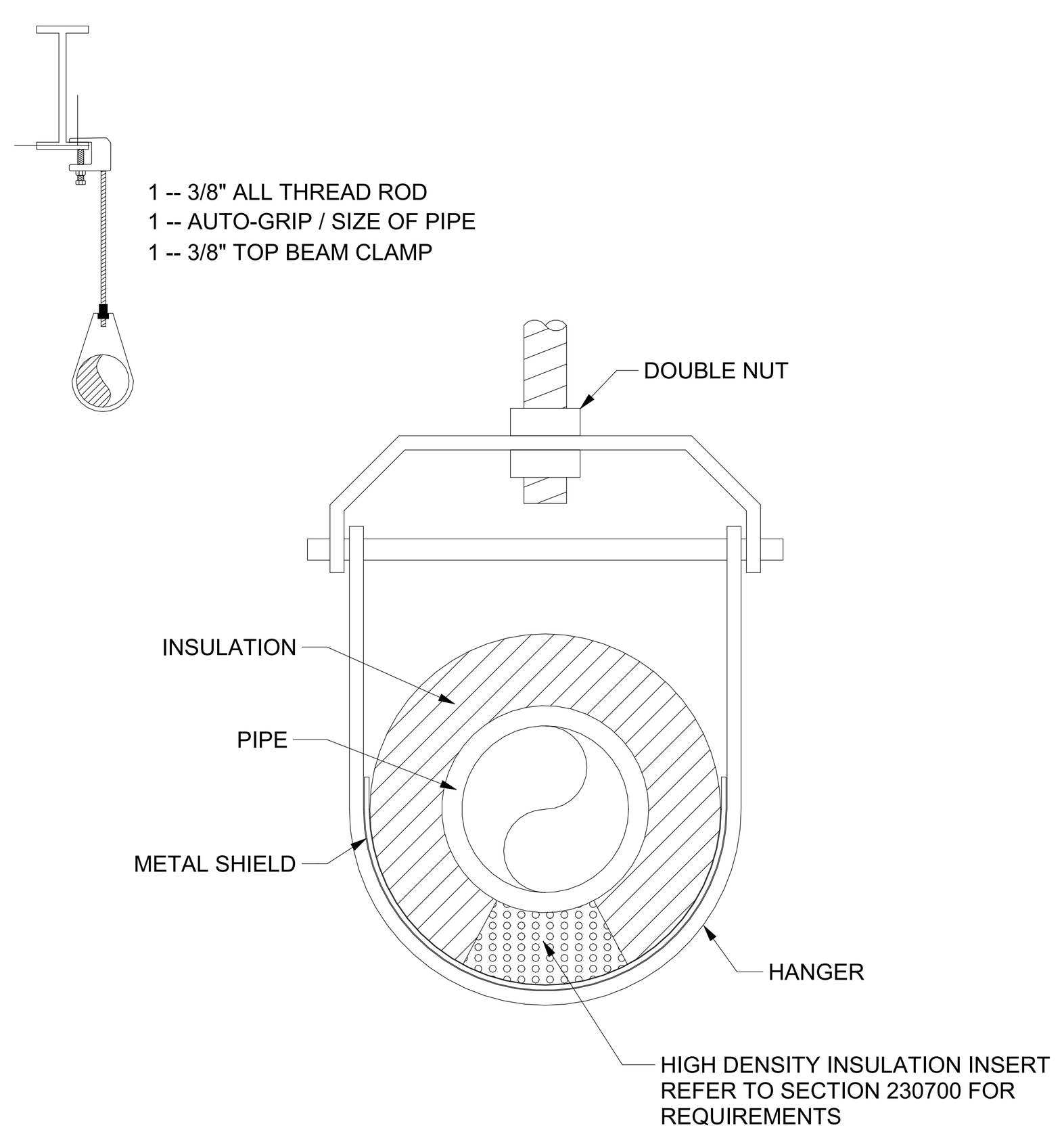
4 FIRE DAMPER INSTALLATION DETAIL
NTS



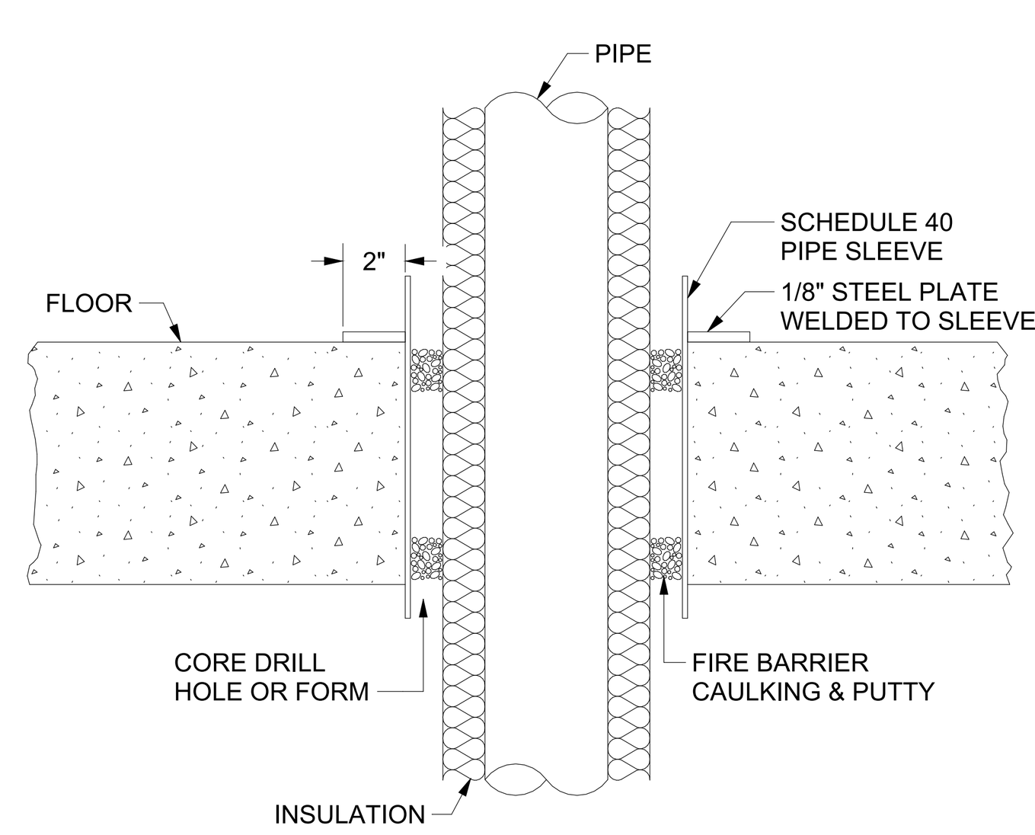
GENERAL NOTES:
A. PROVIDE LINKED EYELETS WITH STUDS AT CONNECTION TO SLOPING STRUCTURE WITH PITCH OF 1 IN 2 OR GREATER. BENDING OF HANGER RODS NOT ALLOWED.

DRAWING NOTES:
1. BOTTOM FLANGED MOUNTED "C" CLAMP WITH SET SCREW, LOCKNUT, AND RETAINING STRAP (FOR USE ON BEAMS ONLY, NOT ALLOWED ON JOISTS).
2. TOP FLANGED MOUNTED "C" CLAMP WITH SET SCREW AND LOCKNUT (FOR USE ON BEAMS ONLY, NOT ALLOWED ON JOISTS).
3. STEEL PLATE WASHER WITH DOUBLE NUT.
4. CONCENTRIC BEAM CLAMP WITH THREADED, WELDED EYEROD. FOR USE WITH JOIST AND BEAMS.
5. CHANNEL SPANNING BETWEEN BEAMS AND/OR JOISTS IN DECKING "CAVITY". SET ON AND SECURE TO BEAMS AND JOISTS.
6. STEEL ALL-THREAD RODS.
7. VIBRATION ISOLATION DEVICE ASSEMBLY FOR FANS, AIR-HANDLING UNITS, FAN COIL UNITS, ETC.

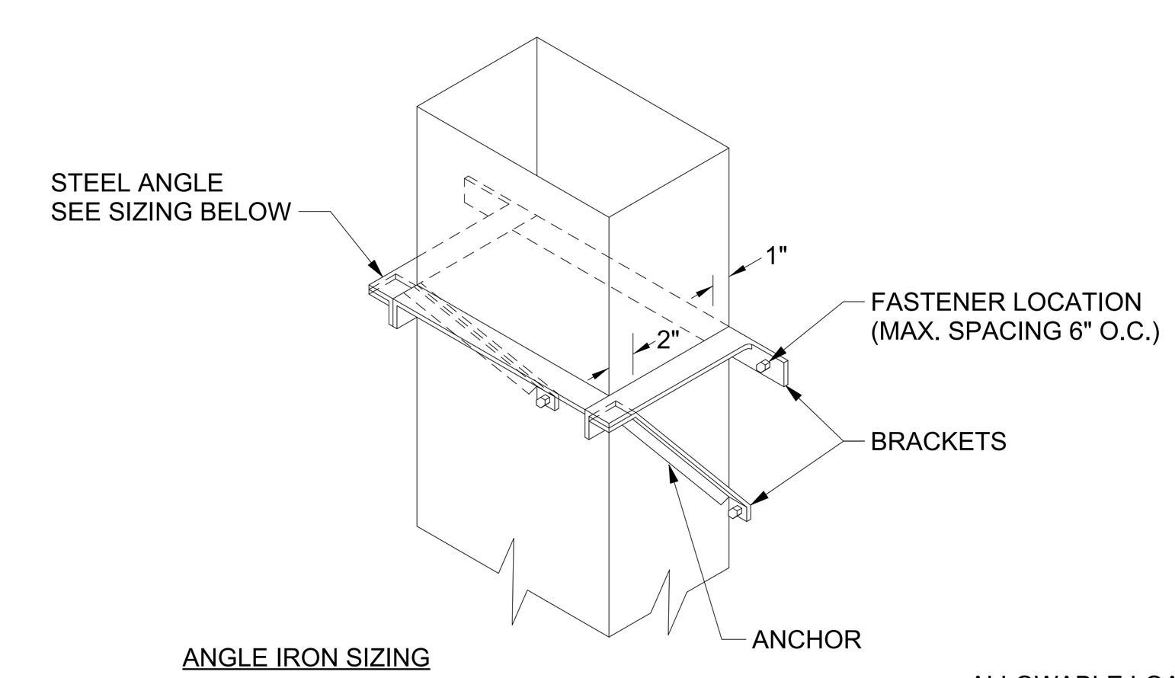
5 HANGERS SUPPORT FASTENING DETAIL
NTS



6 PIPE HANGER DETAIL
NTS



7 PIPE SLEEVE THRU EXISTING FLOOR DETAIL
NTS

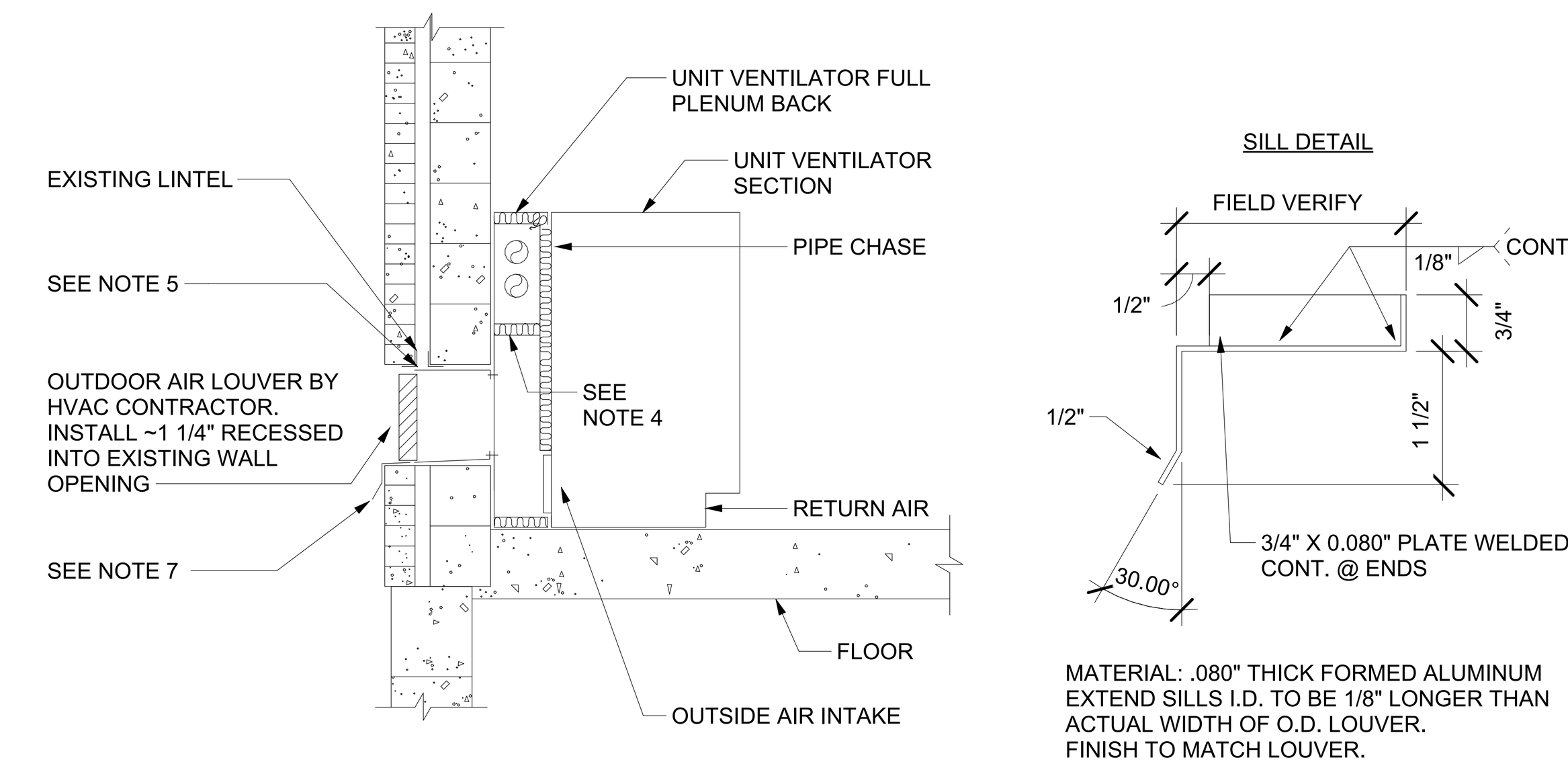


ANGLE IRON SIZING

DUCT SIZE UP TO	ANGLE	DUCT GAUGE	ALLOWABLE LOAD PER FASTENER
36"x18"	1"x1"x1/8"	28, 26	25 LB.
48"x30"	1-1/4"x1-1/4"x1/8"	24, 22, 20	35 LB.
		18, 16	50 LB.

NOTES:
1. BRACKETS 6 FEET ON CENTERS, MAXIMUM, MINIMUM 2 PER EXPOSED RISER.
2. LOCATED DUCT WITHIN 2" OF WALL.
3. EACH WALL ANCHOR SHALL SATISFY THE FOLLOWING CRITERIA:
   A. TENSILE LOAD = 3/8"x4"xDUCT WEIGHT.
   B. SHEAR LOAD = 1/2"x4"xDUCT WEIGHT.

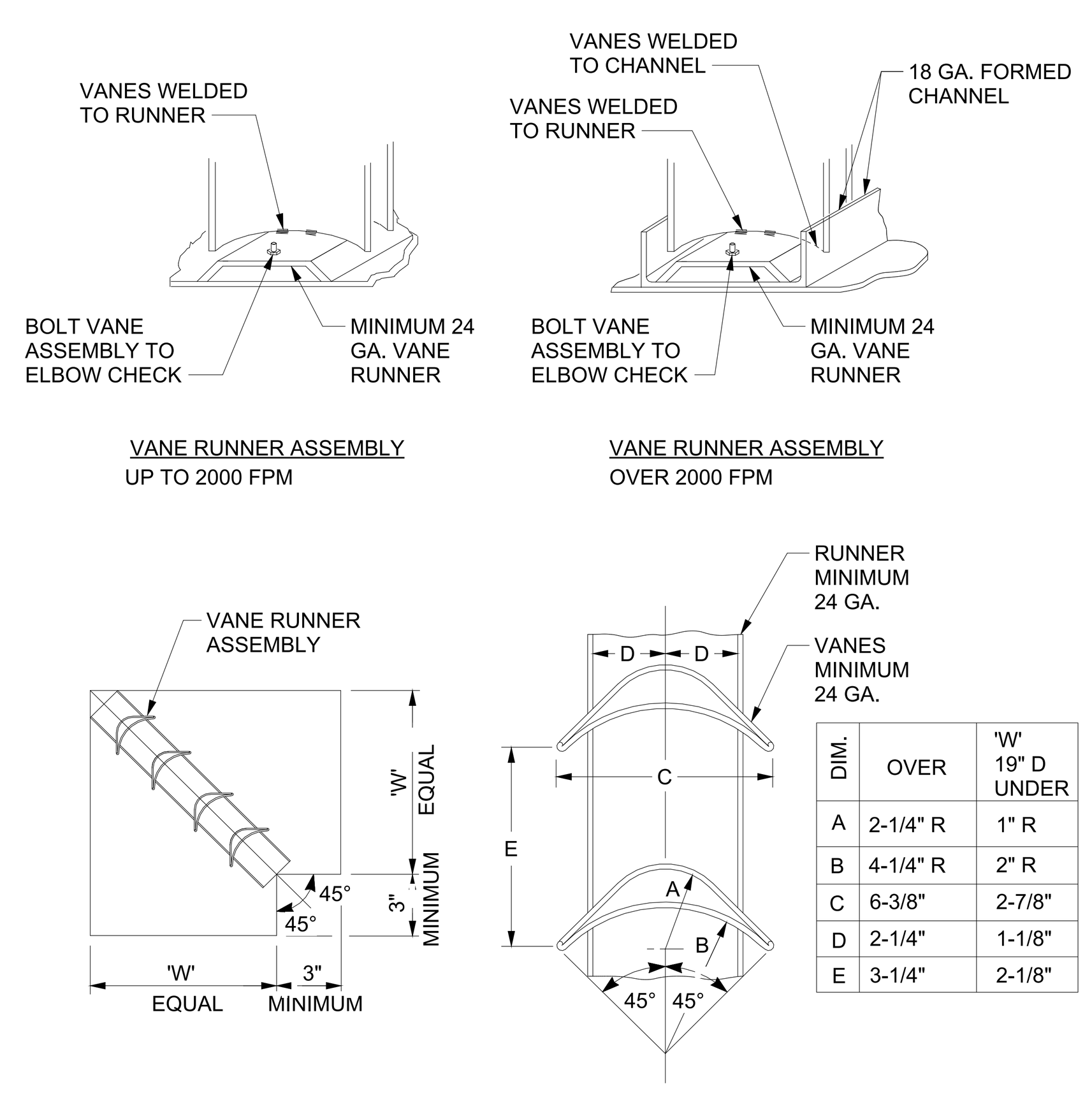
8 RECTANGULAR RISER SUPPORT DETAIL
NTS



MATERIAL: .080" THICK FORMED ALUMINUM EXTEND SILLS I.D. TO BE 1/8" LONGER THAN ACTUAL WIDTH OF O.D. LOUVER. FINISH TO MATCH LOUVER.

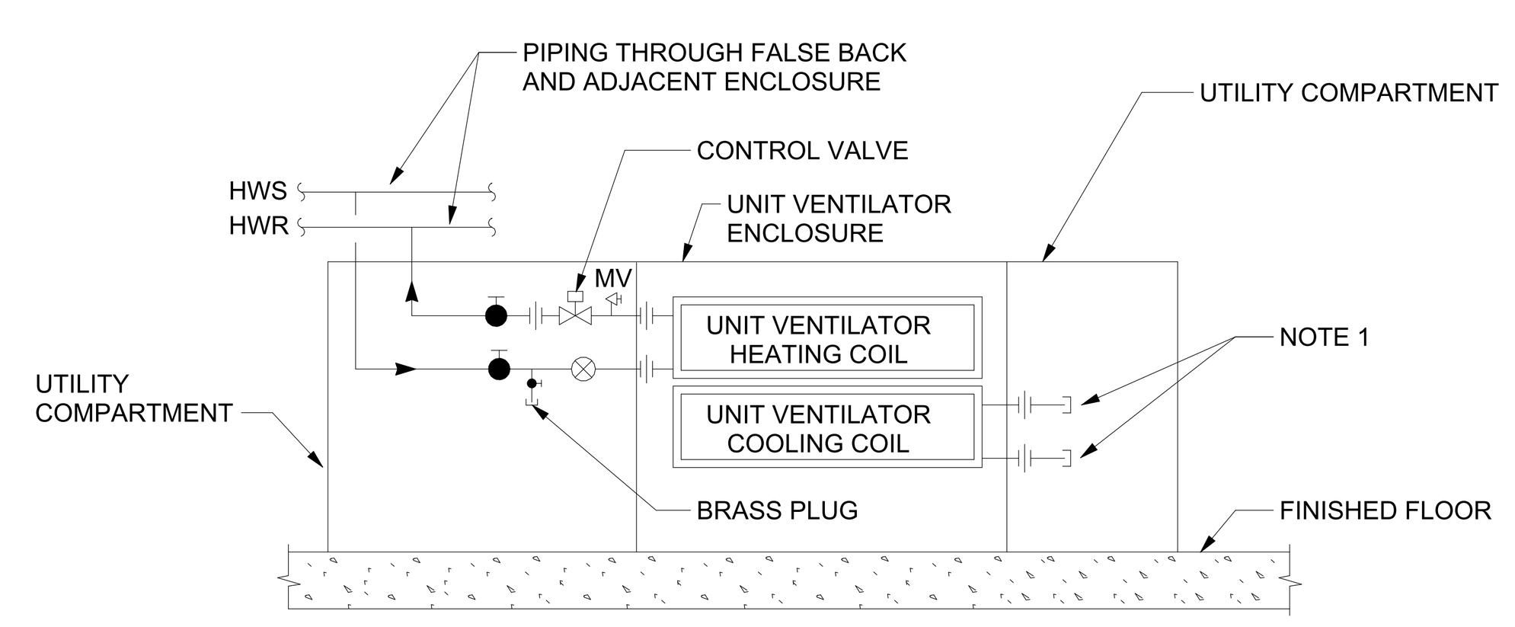
NOTES:
1. PITCH BOTTOM OF WALL SLEEVE TO LOUVER.
2. SEAL AND CAULK WALL SLEEVE CONNECTION TO BACKPLATE, WALL OPENING, AND LOUVER. AT LOUVER, CAULK COLOR TO MATCH LOUVER (TYPICAL).
3. SHIM AND GROUT FLOOR TO LEVEL UNIT VENTILATOR.
4. PROVIDE 1" DOUBLE WALL INSULATED PANEL AT LOUVER TOP WHERE REQUIRED TO PROVIDE AIRTIGHT SEAL BETWEEN UNIT VENTILATOR BACK PLENUM AND LOUVER OPENING.
5. 16 GA., 4-SIDED, SHEET METAL WALL SLEEVE BY HVAC CONTRACTOR. COORDINATE LENGTH REQUIRED FOR RECESSED LOUVER INSTALLATION.
6. PROVIDE MOCK-UP OF UNIT VENTILATOR AND PIPE COVER, COMPLETE WITH ALL COMPONENTS FOR APPROVAL BY MECHANICAL ENGINEER, ARCHITECT AND OWNER.
7. NEW SLOPED ALUMINUM SILL WITH DRIP. PROVIDE VERTICAL END DAMS AT JAMBS. ALL FASTENING/ANCHORAGE TO BE CONCEALED. FINISH TO MATCH LOUVER - CELAR ANODIZED. SILL AND ALL COMPONENTS OF ASSEMBLY TO BE COMPATIBLE WITH ALL ADJACENT, EXISTING AND PROPOSED, MATERIALS.COORDINATE WITH DETAILING OF LOUVER/LOUVER SIL/SILL EXTENSION. PROVIDE RUSKIN SILL OR EQUAL. REFER TO SILL DETAIL ABOVE.

9 UNIT VENTILATOR DETAIL
NTS



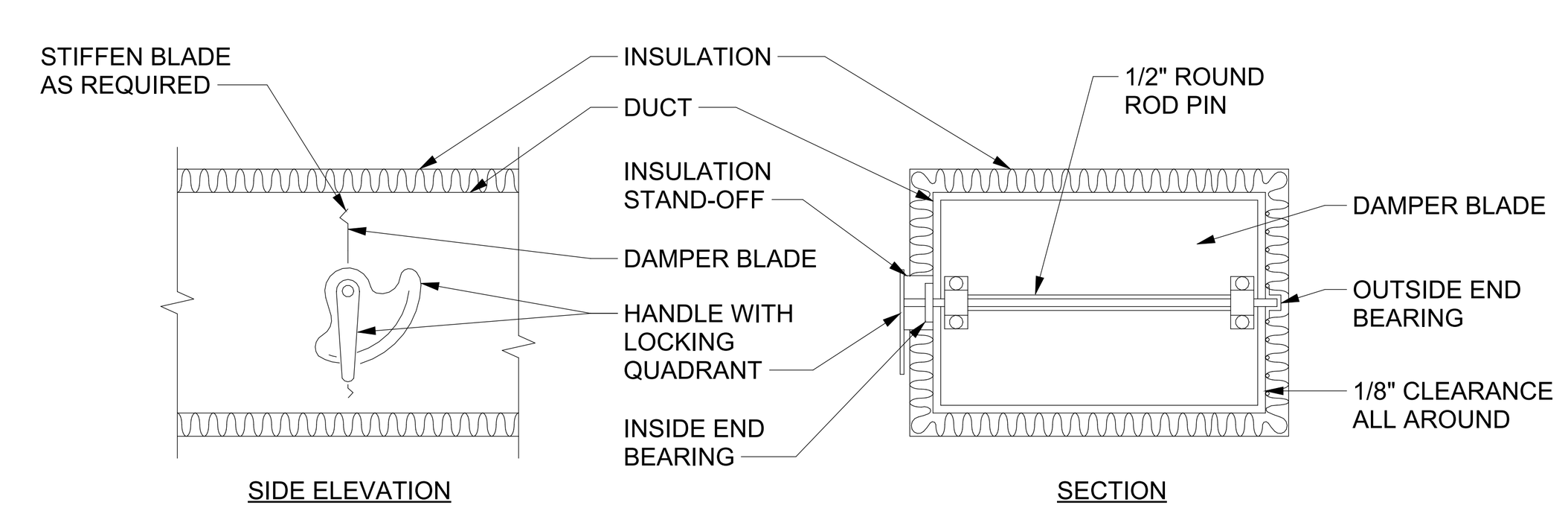
DIM.	OVER	'W' 19" D UNDER
A	2-1/4" R	1" R
B	4-1/4" R	2" R
C	6-3/8"	2-7/8"
D	2-1/4"	1-1/8"
E	3-1/4"	2-1/8"

10 VANED ELBOW DETAIL
NTS



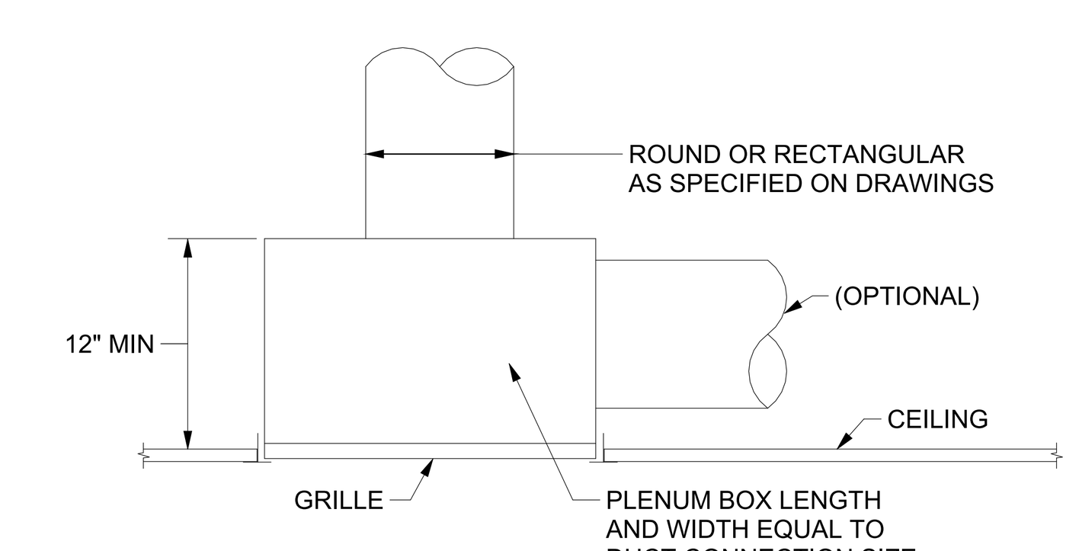
NOTES:
1. PROVIDE 1 1/4" CWS/CWR PIPING CONNECTIONS FOR UV-K114, 1" CWS/CWR PIPING CONNECTIONS FOR ALL OTHER UNIT VENTILATORS. EXTEND ~3" INTO UTILITY COMPARTMENT AND CAP FOR FUTURE CONNECTION.

11 UNIT VENTILATOR PIPING DETAIL W/ HW & CW COILS
NTS



NOTES:
1. DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
2. DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSULATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.
3. REFER TO SECTION 233000 FOR ADDITIONAL REQUIREMENTS.

12 VOLUME DAMPER DETAIL
NTS



13 TYPICAL CEILING GRILLE INSTALLATION DETAIL
NTS

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SEAL:
01/06/2025
ISSUE FOR BID

OWNER:
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95 FRANKLIN STREET, SUITE 1400
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ECDPW PROJECT # 2021-956-01

SUNY ECC NORTH CAMPUS KITTINGER HALL
CLASSROOM INFRASTRUCTURE PHASE 1 IMPROVEMENTS
6201 MAIN STREET, WILLIAMSVILLE, NY 14221

AM JOB NO.
21138

REV. NO.	REV. DATE	REV. DESCRIPTION
3	01/27/25	Addendum 03
4	01/30/25	Addendum 04

DATE ISSUED:
01/06/2025

HVAC DETAILS

KH H500

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SECTION 028200 - ASBESTOS ABATEMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This Section references procedures for the removal of existing asbestos-containing materials (ACM) as part of the Kittinger Hall Classroom Improvements at the Erie County Community College North Campus in Williamsville, New York. Refer to Hazardous Materials Removal Drawings HM-100, HM-101, HM-102 and HM-103 as well as the survey report titled "Pre-Renovation Survey for Asbestos-Containing Materials, Lead-Based Paint, Polychlorinated Biphenyls in Caulks/Sealants, Universal Waste and Miscellaneous Hazardous Materials for the Kittinger Hall Interior Renovations Project prepared by Watts Architects and Engineers dated September 15, 2023 and included with Appendix A.

1.3 SCOPE OF WORK

A. The asbestos abatement work shall include the following:

1. Properly remove and dispose of all wood doors with asbestos-containing window glazing compound for the inset windows within project limits. There are approximately 45 doors each with approximately 0.3 square feet of asbestos-containing window glazing compound, total approximately seventeen square feet. The doors are to be removed intact within a negative pressure regulated asbestos abatement work area, wrapped in 6 mil poly sheeting, edges sealed and labeled prior to transfer to the asbestos waste storage area. The doors are to be properly disposed of as friable asbestos-waste. Refer to architectural drawings and door schedule on drawing KH A601 for additional information and to determine base bid work vs. Alternate work.

2. Remove wood paneling and/or built in bench and all associated backup systems in their entirety. Remove wall tile and asbestos-containing mastic behind wood panels. Work also to include removals of existing soffits, fascia and all backup systems in their entirety. Remove lockers, soffits and associated backup. The general contractor shall be responsible for delineating precise removal limits. Removal shall occur under negative pressure containment within a regulated asbestos abatement work area. Refer to architectural documents for more detail.

3. Carefully remove drinking fountain attached to wall with asbestos-containing wall tile system. If tile damage occurs during removal, remove entire broken tile(s) and associated mastic in preparation for repair. Remove ceramic tile/mastic as needed to infill openings. Refer to architectural demolition drawings for further information. Less than 10 square feet of wall tile mastic disturbance anticipated.

4. Remove all flooring materials, mastics and fillers down to and from bare concrete substrate. 9” x 9” floor tile and associated mastic beneath newer flooring material is asbestos-containing. Perform scheduled demolition as required to reach extents of tile. Multiple layers of flooring are present at all locations. Coordinate with flooring installed to ensure removal methods are appropriate for new flooring and will not void warranty. There is approximately 5,800 square feet of ACM flooring and overlying laminate flooring to be abated within the project limits.

5. Properly remove and dispose of designated sections of lockers, soffits that are built into corridor walls and all associated backup systems. Asbestos-containing mastic from abutting ceramic corridor wall tiles will be present beneath edges of the abutting lockers. There is approximately 909 square feet of lockers to be removed. Refer to architectural demolition plans for lockers to be removed. The General Contractor shall be responsible for delineating precise removal limits. Removal of the lockers shall occur under negative containment within a regulated asbestos abatement work area. The Abatement Contractor shall remove any residual asbestos-containing mastic from the lockers and from the underlying substrate. Remove ceramic tile/mastic as needed to infill openings. The lockers can be disposed of as construction debris after visual inspection and clearance by the independent project monitor. Properly contain and dispose of removed asbestos-containing mastic and associated debris as asbestos-waste.

6. Properly detach and dispose of unit ventilators that are on top of asbestos-containing 9” x 9” tiles. Specific unit ventilators on top of asbestos-containing tiles have been delineated. The 9" x 9" floor tiles are covered by newer flooring. There are approximately 14 unit ventilators to be removed.

7. Properly remove and dispose of asbestos-containing mudded pipe fittings on basement steam supply and condensate return lines to accommodate mechanical and plumbing renovations. There are approximately 40 basement-level mudded fittings at four separate locations will need to be abated for the project.

   Refer to mechanical plans for precise locations. The General Contractor/other trades shall be responsible for delineating precise piping connection locations. Abatement of mudded fittings shall occur under negative containment as a regulated abatement activity. Remove abutting non-ACM jackets and fiberglass insulation approximately 12” beyond delineated mudded fittings and seal ends with wetted cloth. Properly dispose of removed mudded fittings, abutting insulation and associated debris as asbestos-waste.

8. Properly remove ash urns from ceramic wall tiles at locations where corridor walls are to remain. The underlying mastic is asbestos-containing. Remove ash urns with minimal disturbance to the wall tiles within a negative pressure containment as a regulated asbestos abatement activity. Remove any mastic from the metal ash urns and recycle the urns as appropriate. Any removed ceramic wall tile, mastic and/or associated debris shall be properly containerized, labeled and disposed of as asbestos waste. Approximately 30 square feet of mastic disturbance is anticipated.

9. Properly remove and dispose of asbestos-containing black tar from the exterior of delineated roof top exhaust fans. There are approximately four roof top exhaust fans, each with approximately one square foot of tar, total of four square feet to be abated.

The tar occurs as intermittent patches on the base and sides of the exhaust fans. Confirm specific fans with the General Contractor/other trades. Remove the tar down from the exhaust fans, which are to be replaced by other trades. Dispose of the black tar patches and associated debris as asbestos waste.

10. Remove corridor mounted fixtures scheduled for demolition/removal including but not limited to mechanical louvers, ceiling tile support grid, bulletin boards, etc. Provide anchors and/or attachment points through ceramic wall tile in corridors for new work where applicable. The ceramic wall tile mastic is asbestos-containing. Budget for up to 200 square feet of disturbance/800 detachments/anchor installations. Refer to full project drawing set for locations and more information. Coordinate with associated trades.

11. Remove damaged wall tile and mastic in corridors for replacement in kind. Refer to architectural plans for specific locations. Budget for up to 100 square feet of removal.

12. Remove all pipe insulation, associated debris on floor and any porous materials within the designated areas. The current condition is an incidental disturbance of friable asbestos which will require a variance from ICR-56 to address. Submit a draft variance petition to the owner and their representative for review prior to submission to NYSDOL engineering services. Approximately 11 linear feet of asbestos-containing pipe insulation and 26 square feet of contaminated floor space to be abated.

B. Work resulting in disturbance of asbestos-containing materials shall be performed by a licensed asbestos abatement contractor employing certified workers in accordance with all applicable standards referenced herein.

1.4 CODES AND REGULATIONS

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

B. Contractor Responsibility: The Contractor shall assume full responsibility and liability for the compliance with all applicable Federal, State and local regulations pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site and persons occupying areas adjacent to the site. The Contractor is responsible for providing medical examinations and maintaining medical records of personnel as required by the applicable Federal, State and local regulations. The Contractor shall hold the Owner and Owner's 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. Federal Requirements which govern asbestos abatement work or hauling and disposal of asbestos waste materials include but are not limited to the following:

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

Occupational Exposure to Asbestos, Tremolite, Anthophyllite, and Actinolite; Final Rules
Title 29, Part 1926, Section 1101 of the Code of Federal Regulations

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

Access to Employee Exposure and Medical Records
Title 29, Part 1910, Section 2 of the Code of Federal Regulations
Hazard Communication
Title 29, Part 1910, Section 1200 of the Code of Federal Regulations

Specifications for Accident Prevention Signs and Tags
Title 29, Part 1910, Section 145 of the Code of Federal Regulations
DOT: U.S. Department of Transportation, including but not limited to:

Hazardous Substances
Title 29, Part 171 and 172 of the Code of Federal Regulations
EPA: U.S. Environmental Protection Agency (EPA), including but not limited to:

Training Requirements of (AHERA) Regulations
Asbestos-Containing Material in Schools Final Rule & Notice

Title 40, Part 763, Subpart E, amended Appendix C of the Code of Federal Regulations dated April 4, 1994

National Emission Standard for Hazardous Air Pollutants (NESHAPS)
National Emission Standard for Asbestos
Title 40, Part 61, Subpart A, and revised Subpart M (Revised Subpart B) of the Code of Federal Regulations dated November 20, 1990

D. State Requirements which govern asbestos abatement work or hauling and disposal of asbestos waste materials include but are not limited to the following:

New York State Department of Labor (NYSDOL) Industrial Code Rule 56 (Code Rule 56): Asbestos, as Amended adopted January 11, 2006 and Effective September 5, 2006.
New York State Department of Environmental Conservation (DEC) Regulations regarding waste collector registration Title 6, Part 364 of the New York State Official compilation of Codes, Rules and Regulations. An annual "Industrial Waste Hauler Permit" specifically for asbestos-containing materials is required for transportation of asbestos-containing waste to the disposal site.

E. Local Requirements: Abide by all local requirements which govern asbestos abatement work or hauling and disposal of asbestos waste materials.

1.5 STANDARDS

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

B. Contractor Responsibility: The Contractor shall assume full responsibility and liability for the compliance with all standards pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site and persons occupying areas adjacent to the site. The Contractor

shall hold the Owner and Owner's Representative harmless for failure to comply with any applicable standard on the part of himself, his employees or his subcontractors.

C. Standards: These standards apply to asbestos abatement work or hauling and disposal of asbestos waste materials and include but are not limited to the following:

American National Standards Institute (ANSI)
1430 Broadway
New York, NY 10018
(212) 354-3300

Practices for Respiratory Protection Publication Z88.2-80

American Society for Testing and Materials (ASTM)
1916 Race Street
Philadelphia, PA 19103
(215) 299-5400

Safety and Health Requirements Relating to Occupational Exposure to Asbestos E 849-82

1.6 SUBMITTALS

A. No less than 7 days before the start of the project, three (3) legible copies of the following items must be submitted to the Owner or the Owner's Representative:

1. NYSDOL Contractor's License (DOH-432).
2. A statement signed by an authorized representative of the company stating that a Respiratory Protection Program which meets the requirements of OSHA Title 29, Part 1910, Section 134 will be in effect and followed during the project.
3. Provide a statement signed by an authorized representative of the company stating that the Building Occupants/Other Trades notification required by ICR 56 will be or has been posted at least 3 days prior to the start of the project. Provide a copy of the notification that will be posted at the job site.
4. Variance(s) to be used on the project (if required).
5. Copy of permit for transporter that will be used.
6. Copy of permit for disposal site that will be used.
7. Name, address and phone number of air sampling firm and laboratory to be used on the project for OSHA personal samples. Include the accreditation of the analytical laboratory (ELAP certificates).
8. Site-specific work plan in accordance with Section 1.07 C.
9. U.S. EPA and NYSDOL Project Notifications: As required by Federal and State regulatory agencies together with proof of transmittal (i.e. certified mail return receipt).

B. During the projet, legible copies of the following items must be maintained at the job site for review by the Owner's Representative:

1. NYSDOL Asbestos Handling Certifications (DOH 442) for all persons employed on the project. (Likeness on photographs must be clear.)
2. Proof of current (within the last 12 months) physical examination for all persons employed on the project.
3. Proof of current (within the last 12 months) respirator fit test for all persons employed on the project.
4. Work Area Entry/Exit Log.

5. Asbestos Abatement Contractor Daily Project Log.
6. Any and all changes to the Contract should any occur.
7. Personal sampling results within 24 hours of sampling.
8. The company's standard operating procedures manual.
9. The company's respiratory protection program.

C. Upon completion of the project, legible copies of the following items must be submitted to the Owner or Owner's Representative:

1. Personal air sampling records including chain-of-custody forms and laboratory results. These records must also include the accreditation of the analytical laboratory (ELAP certificates).
2. Waste manifest(s), shipment records and landfill receipts signed by the landfill operator within 30 days after the waste leaves the site. A percentage of the final payment will be withheld until the waste shipment records are received by the Owner or Owner's Representative.
3. NYSDOL Asbestos Handling Certifications (DOH 442) for all persons employed on the project. (Likeness on photographs must be clear).
4. Proof of current (within the last 12 months) physical examination for all persons employed on the project.
5. Proof of current (within the last 12 months) respirator fit test for all persons employed on the project.
6. Work Area Entry/Exit Log.
7. Asbestos Abatement Contractor Daily Project Log.

1.7 QUALITY ASSURANCE

A. Regulatory Requirements: Comply with the referenced regulations and standards.

B. Pre-work Conference: Before the work of this section is scheduled to commence, a conference will be held at the site for the purpose of reviewing the Contract Documents, discussing requirements for the work, and reviewing the work procedures. The conference shall be attended by the asbestos abatement contractor.

C. Work Plan: The Contractor shall prepare a detailed work plan and submit the plan no later than one week prior to the start of the abatement project. The work plan shall include, but not be limited to: a schedule for completion of the work; work procedures; types of equipment; crew size; shift times and durations; and emergency procedures for fire and medical emergencies and for failure of containment barriers. The work plan shall include details on the procedures that will be used to construct the containment barriers, including measures to be taken to prevent damage to existing finishes and use of spray adhesives, duct tape etc.

1.8 SPECIAL CONDITIONS

A. Locations and quantities of all materials to be removed by the abatement contractor must be field verified. Information given on the drawings and in the specifications is for general orientation and information only.

B. The contractor shall have at least one English-speaking supervisor on the job site at all times while the project is in progress.

C. All clearance air samples will be analyzed by transmission electron microscopy (TEM) using the method specified under the Asbestos Hazard Emergency Response Act (AHERA).

D. Contractor is responsible for obtaining any and all site-specific variances, as required to perform work. Submit variance petition for review, prior to submission to the NYSDOL. The provisions of any site-specific variance(s) obtained by the Contractor may not be implemented until approval is given by the Owner or the Owner's representative.

PART 2 - PRODUCTS

2.1 WETTING MATERIALS: For wetting prior to disturbance of asbestos-containing materials, use amended water:

A. Amended Water: Water to which a surfactant has been added. Use a mixture of surfactant and water which results in wetting of the asbestos-containing material and retardation of fiber release during disturbance of the material equal to or greater than that provided by the use of one ounce of a surfactant consisting of 50% polyoxyethylene ester and 50% polyoxyethylene ether mixed with five gallons of water.

2.2 POLYETHYLENE SHEET: Fire retardant polyethylene film in the largest sheet size possible to minimize seams, 6-mil thick as indicated, clear, frosted or black as indicated.

2.3 DUCT TAPE: Provide duct tape in 2" or 3" widths as indicated, with an adhesive which is formulated to stick aggressively to sheet polyethylene.

2.4 SPRAY CEMENT: Provide spray adhesive in aerosol cans which is specifically formulated to stick tenaciously to sheet polyethylene.

2.5 DISPOSAL BAGS: Provide 6-mil thick leak-tight polyethylene bags labeled as described in the standards referenced in Part 1 of this section.

2.6 GARDEN SPRAYER: Provide a hand pump type pressure-can garden sprayer fabricated out of either metal or plastic, equipped with a metal wand at the end of a hose that can deliver a stream or spray of liquid under pressure.

2.7 RESPIRATORS

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

B. Respirators shall be fit-tested to personnel by an industrial hygienist or other competent person. Fit-tested respirators shall be permanently marked to identify the individual fitted, and use shall be limited to that individual.

C. The asbestos abatement workers will be allowed to use half face, dual cartridge HEPA filtered respirators when the airborne fiber concentrations collected inside the work area are within standards as specified herein. The decision of what type of respirator the workers will wear shall be based on fiber concentration of air samples collected during the beginning phases of the removal project.

D. No respirators shall be issued to personnel without such personnel participating in a respirator training program.

E. High Efficiency Particulate Air (HEPA) respirator filters shall be approved by NIOSH and have

the NIOSH P100 designation. The respirator filters shall also conform to the OSHA requirements in 29 CFR 1910.134 and 29 CFR 1926.1101.

F. A storage area for respirators shall be provided by the Contractor on the clean room side of any established decontamination chamber where they will be kept in a clean environment.

G. The Contractor shall provide and make available a sufficient quantity of respirator filters so that filter changes can be made as necessary during the work day. Filters will be removed and discarded during the decontamination process. Filters cannot be reused. Filters must be changed if breathing becomes difficult.

H. Filters shall not be used any longer than one eight (8) hour work day.

I. Respirator filters shall be stored at the project site in the change room of each work area personnel decontamination unit.

J. Where not in violation of NIOSH and OSHA requirements the Contractor shall provide at least the following minimum respiratory protection to the maximum use concentrations indicated below:

OSHA/NIOSH Approved Respiratory Protection	Maximum use Concentration*
Half mask Air Purifying with HEPA Filters	1.0 f/cc
Full face piece Air Purifying HEPA filters and qualitative fit test	5.0 f/cc
Powered Air Purifying (PAPR) Full Face piece HEPA filtered	10.0 f/cc
Supplied Air, Continuous Flow, full face piece, HEPA filter	10.0 f/cc
Full face piece supplied air, pressure demand	100.0 f/cc
Full face piece, supplied air, pressure demand, with Aux. SCBA pressure demand or continuous flow	100.0 f/cc

K. Where fiber levels permit, and in compliance with regulatory requirements, Powered Air Purifying Respirators (PAPR) are the minimum allowable respiratory protection permitted to be utilized during gross removal operations of OSHA Class I or OSHA Class II friable ACM unless the Contractor performs and/or submits a valid negative exposure assessment.

PART 3 - EXECUTION

3.1 ASBESTOS-CONTAINING MATERIAL HANDLING AND REMOVAL PROCEDURES

A. Perform work under this contract in accordance with the standards referenced in Part 1 of this Section. The provisions of any site specific variances to New York State Department of Labor (NYSDOL) Industrial Code Rule 56 (ICR 56) obtained for this project may not be implemented until approval is given by the Owner or Owner's Representative.

B. Work resulting in disturbance of asbestos containing materials shall be performed by a licensed asbestos abatement contractor employing certified workers in accordance with all applicable standards referenced herein.

3.2 CLEAN-UP PROCEDURES

A. Comply with the standards referenced in Part 1 of this Section.

3.3 AIR SAMPLING AND ANALYSIS

A. Area Air Sampling
1. The Owner shall be responsible for hiring an independent third party firm to perform the required area air sampling and analysis in accordance with ICR 56.
2. The Contractor is required to ensure cooperation of its personnel with the Air Sampling Technician (AST) for general air sampling, and testing of each work area after completion of asbestos work prior to removal of containment barriers.
3. All air samples other than clearance samples shall be analyzed using Phase Contrast Microscopy (PCM) in accordance with NYSDOL Industrial Code Rule 56 and NIOSH method 7400.
4. Turn-around time for laboratory analysis of area air samples shall not exceed 48 hours.
5. All clearance samples will be analyzed in accordance with Asbestos Hazard Emergency Response Act (AHERA) under Transmission Electron Microscopy (TEM).
6. Copies of all area air monitoring results shall be immediately transmitted to the Owner or his Representative.

B. Personal Air Sampling
1. In addition to the requirements of OSHA 1926.1101, the Contractor shall be required to perform personal air monitoring every work shift in each work area during which abatement activities occur in order to determine that appropriate respiratory protection is being utilized.
2. The analysis of personal air samples shall be conducted by an ELAP approved laboratory, subject to approval of the Owner or the Owner's Representative.
3. Results of personnel air sample analyses shall be available, verbally, within twenty four (24) hours of sampling, and shall be posted at the work site within 48 hours. Results shall be submitted in accordance with the requirements of Section 1.06D.

3.4 PROJECT MONITORING

A. The building Owner shall retain the services of a New York State Department of Labor licensed and certified Project Monitor to provide periodic, as needed site inspections, documentation review, and general consulting services. The Contractor shall cooperate fully with the Project Monitor(s) during the course of work. Failure to cooperate fully may lead to the issuance of a Stop Work Order.

Any liquidated damages incurred as a result of any stop work order issued shall be the

responsibility of the Contractor. The Project Monitor's responsibilities shall be as follows:

1. The Project Monitor shall oversee work practices and ensure compliance with all applicable regulations and standards, and the Contract Documents.

2. The Project Monitor shall review all project submittals as submitted by the Contractor. Applicability, completeness, and thoroughness shall be reviewed and written comments/approvals shall be issued to the Contractor by the Project Monitor.
3. The Project Monitor shall inspect each work area prior to, during, and at the completion of asbestos abatement work. The Project Monitor must give approval to the Contractor prior to beginning asbestos removal work. The Contractor is responsible for continuously informing the Project Monitor of on-going progress of the project, and scheduling the final visual inspection of each work area prior to running final clearance air samples.
4. The Project Monitor shall perform final visual inspections in accordance with current ASTM Standard E1368 "Standard Practice for Visual Inspection of Asbestos Abatement Projects".
5. The Project Monitor shall maintain a detailed project log book. The log book shall include a chronological record of site visits, inspections, correspondence, and general information on the project. Details of personnel on site, explanations of unusual occurrences, meetings, phone conversations, etc. shall be documented. This project log shall not be substituted for the contractor's project log.
6. The Project Monitor shall compile all project records into a project records manual at the completion of the project. Records shall include but not be limited to the following: air sampling records; Project Monitor's records; as well as any other pertinent records documenting compliance to applicable regulations, and the Contract Documents. The Contractor shall turn over copies of all pertinent documents to the Project Monitor upon request for inclusion into the project records manual. The Project Monitor shall complete the project records manual, and submit two (2) bound copies to the building Owner or his/her representative.

3.5 DISPOSAL OF ASBESTOS-CONTAINING MATERIAL AND RELATED DEBRIS

A. Transport the asbestos-containing waste and related debris to the approved disposal site. Comply with the standards referenced in Part 1 of this Section.

3.6 RESTORATION

A. Remove temporary decontamination facilities and restore area designated for these facilities to its original condition or better.

END OF SECTION 028200

APPENDIX A

PRE-RENOVATION SURVEY FOR

ASBESTOS-CONTAINING MATERIALS, LEAD-BASED PAINT, POLYCHLORINATED BIPHENYLS IN CAULK/SEALANTS, UNIVERSAL WASTE AND MISCELLANEOUS HAZARDOUS MATERIALS

FOR THE

KITTINGER HALL
INTERIOR RENOVATIONS PROJECT

AT THE

ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
6205 MAIN STREET, WILLIAMSVILLE, NEW YORK

REVISION 1 - SEPTEMBER 2024

PREPARED FOR

Ashley McGraw Architects, D.P.C
125 East Jefferson Street 15th Floor
Syracuse, NY

FOR SUBMISSION TO

Erie County Department of Public Works
Rath Building
95 Franklin Street
Buffalo, NY

PREPARED BY

Watts Architects &Engineers

BUFFALO / ROCHESTER / SYRACUSE / NEW YORK

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1.0 – EXECUTIVE SUMMARY

1.0 EXECUTIVE SUMMARY

Watts Architects & Engineers (Watts) was retained by Ashley McGraw Architects D.P.C (Ashely McGraw), to perform a pre-renovation survey for asbestos-containing materials (ACM), lead-based paint (LBP), polychlorinated biphenyls (PCBs) in caulks/sealants and universal/hazardous wastes for the interior renovations at Kittinger Hall (K Building) at the Erie County Community College North campus (ECC) located at 6205 Main Street, Williamsville, New York.

The purpose of the survey was to determine the presence, location and quantity of ACM and PCBs in caulks that may be disturbed during the upcoming interior renovation project to supplement the previous testing that had been performed. This report addresses all suspect materials within the scope of work.

Per records provided by The Erie County Department of Public Works (ECDPW) Kittinger Hall (K Building) was built in approximately 1968.

The proposed renovations and limits of disturbance were based on existing plans and discussions with Ashley McGraw personnel. The scope of work includes the following tasks:

- Reconstruction of the center area classrooms and corridors.
- Demolition of limited sections of corridor walls in the center areas of the first and second floors. This will include removal of several sets of storefront-style window systems in the corridors and removal of wood doors to classrooms/offices within project limits.
- Limited abatement of sheet flooring and underlying asbestos-containing floor tiles in classrooms abutting corridor walls to be demolished for classroom and office reconfiguration.
- Reconfiguring the HVAC ducts along corridor walls leading to ventilation soffits above the entrance doors to each classroom.

Watts investigated areas where work is proposed to be performed in August 2023. The field work was conducted by Watts employee Edward J. Jones, a certified NYSDOL Asbestos Inspector (certification 96-01576), NYSDOL Mold Assessor (certification MA 00425) and US EPA Lead-Based Paint Risk Assessor (certification BP-R-128144-2). Additional investigation and sample collection were performed in September 2024.

Collected samples were submitted with the chain-of-custody form to AmeriSci Richmond (ELAP No. 10984 and NVLAP No. 101904-0) for asbestos analysis and to Schneider Laboratories Global (ELAP No. 11413) for PCB analysis. Copies of Watts' NYSDOL Asbestos, Lead and Mold licenses, employee certifications and laboratory certifications are provided in the appendices to this report.

Field survey work for this project included the following:

- A review of the project scope based on information provided by Ashley McGraw and

Erie County DPW personnel;

- A review of previous regulated building materials testing and survey reports. Summaries and laboratory data from the prior reports are attached to this report. Available reports include the following:
  - Watts Draft Pre-Renovation for Asbestos-Containing Materials, Lead-Based Paint, Polychlorinated Biphenyls In Caulk/sealants, universal Wat3e and Miscellaneous Hazardous Materials for the Kittinger Hall Mechanical Renovations Project dated March 28, 2023.
  - Sienna Environmental Technologies Pre-Renovation Asbestos-Containing Materials, Lead-Based Paint, and Exterior PCB-Containing Materials Inspection Report Toilet Renovations, ADA and Electrical Upgrades prepared for Kideney Architects dated Revised September 25, 2020. Visual site inspections to identify suspect ACM, PCBs and LBP that were identified to be within the project limits;
  - Sienna Environmental Technologies Asbestos, PCB and Lead Based Inspection Report dated September 2015 prepared for BHNT Architects, PC for the campus wide masonry restoration project.
- Collection and laboratory analysis of bulk samples for asbestos from materials that may be disturbed by the project and which were not previously sampled;
- Utilization of a portable XRF analyzer to test building components within project limits for the presence of LBP;
- Documentation of sample locations on drawings and chain-of-custody forms; and
- Photographs.

ASBESTOS-CONTAINING MATERIALS (ACM)

Watts' onsite activities included the collection and analysis of sixty-three (63) bulk samples of materials not previously evaluated within the Kittinger Hall (K Building) project limits and to represent the identified suspect ACM. A material is considered to be ACM if it contains greater than 1% of asbestos.

Based on site observations and laboratory analysis of the samples collected, the following ACMs were identified within the K Building project limits:

- **9" x 9" floor tiles and associated mastic.** Prior testing reports noted that both 9" x 9" floor tiles and the associated mastic are asbestos-containing. Floor tiles, whenever observed, are assumed to be in fair to good condition and to be non-friable. The ACM 9" x 9" floor tiles and associated mastic were observed in the majority of the classrooms and offices in the K Building.

  Several classrooms have been renovated with non-ACM flooring on top of the ACM 9" tiles. All offices were also observed to have 9" ACM floor tiles. The only rooms/spaces observed not to have the ACM floor tiles are the corridors with terrazzo flooring;

bathrooms with non-ACM flooring: and second floor classrooms Rooms 260 (non-ACM 12" tiles on concrete), Room 259 (12" tiles on concrete and Room 256 (Room 256 has residual black mastic with trace asbestos less than 1%). In addition, Room 223 has a terrazzo floor and no tiles. This room was once a portion of the adjacent corridor. All other classrooms and offices in the K Building were observed to have either exposed or underlying asbestos-containing flooring abutting up to and beneath the edges of the wall mounted unit ventilators. Approximately 63 of the unit ventilators in K Building rest on top of or abut ACM flooring.

- **Window glazing compound for inset windows to wood doors.** The classrooms and offices to the corridors have wood doors with an inset window. All doors are similar in size and construction with the same size and type of window. The glazing compound was determined to be asbestos-containing. Each wood door has approximately 86 linear inches of ½" wide window glazing compound, total 0.3 square feet per door.

- **Thin set-type mastic associated with blue ceramic 4" x 6" wall tiles on corridor walls.** The ceramic wall tiles in the K building were previously determined to be adhered with asbestos-containing mastic. All corridors have various amounts of ceramic wall tiles on the walls to the classrooms within project limits. The corridor walls are not completely covered with tiles; Sections of corridor walls have an upper band of non-ACM plaster, and other sections have built-in lockers or wood paneling with benches at former locker locations, with several sections of lockers remaining. The ceramic wall tiles tend to abut the door frames to the classrooms. Sections of corridor blue tiles were also abated and replaced with paneling as part of the 2022 renovation project. The asbestos-containing mastic associated with the corridor wall blue ceramic wall tiles has been determined to be non-friable and to be in good condition behind intact tiles.

  The 2022 bathroom renovation project determined that the asbestos-containing mastic also extends several inches beneath built-in lockers that abut ceramic tiles, and also extends several inches above corridor suspended ceiling tiles. The corridor walls with the blue ceramic tiles are approximately 9 feet tall, with an average of approximately 5 linear feet of tiles by each classroom/office door, total approximately 45 square feet at each doorway.

- **Mudded fitting insulation on piping in the basement/crawl spaces.** Asbestos-containing mud fitting insulation was observed in the basement crawl spaces throughout K Building. All mud fittings in the basements and concealed in wall chases are considered to be homogeneous asbestos-containing materials. The mud fittings were determined to be friable and were observed to be in fair to good condition where accessible.

  Approximately 225 linear feet of asbestos-containing mud fittings remain in the K Building crawl spaces.

  A limited number of the of the ACM fittings beneath the first-floor bathrooms were abated in 2021-2022 as part of a separate Americans with Disability Act (ADA) and bathroom renovation project.

Two disturbances of asbestos-containing mud fitting insulation were observed in the crawlspace totaling 10 linear feet of material and 20 square feet of contaminated dirt floor space.

- **Mastic between countertop and laboratory casework** in Room 162. Approximately 5 square feet of the mastic was observed. The mastic is non-friable and in good condition.

- **Black tar patches on the base of rooftop exhaust fans.** Intermittent discrete patches of black tar was observed on the lower metal frame of a limited number of old-style roof top exhaust fans, above the roof membrane. Five (5) of the roof top exhaust fans were observed to have patches of asbestos-containing black tar, as follows:

  - Exhaust Fan EF1, 0.5 square foot at the northwest corner.
  - Exhaust Fan EF5, on all four sides of the metal base, total 3.0 square feet.
  - Exhaust Fan EF10, 1 square foot on the north and east frames, total 2 square feet.
  - Exhaust Fan EF 11, northeast and southwest corners, total 0.5 square foot.
  - Exhaust Fan EF14, 1 square foot patches on the east, south and west sides, total 3 square feet.

  A total of approximately 9 square feet of black tar on the sides and bases of five of the exhaust fans. The asbestos-containing black tar patches were determined to be non-friable and appeared to be in good condition.

  The asbestos-containing tar was observed on the base of the roof top exhaust fans only: Tar patches on the base of larger vents and air handling units on the roof top were determined to be a separate non-ACM material. In addition, black tar sealant on the edges of the silver foil jackets to insulated ducts, air conditioning units an air handing units was also determined to be non-ACM.

  The following roof top exhaust fans were observed to have no discernable ACM tar:

  Round EF Fan 2
  EF Fan 3
  EF Fan 4
  EF Fan 6
  EF Fan 7
  EF Fan 8
  EF Fan 9
  EF Fan 12
  EF Fan 13
  All AC Units
  All condensers and round fans

NON-ASBESTOS-CONTAINING MATERIALS (NON-ACM)

The following materials within the Kittinger Hall project limits were sampled by Watts' personnel in as part of this investigation and were determined to be non-ACM:

- Wood laminate flooring and associated mastic on top of asbestos-containing 9" x 9" floor tiles
- 18" x 18" gray floor tiles on top of asbestos-containing 9" x 9" floor tiles
- Tan adhesive beneath 18" gray floor tiles and on top of asbestos-containing 9" x 9" floor tiles.
- 2' x 4' suspended ceiling tiles pinhole and small fissure pattern referenced as random small fissure ceiling tiles).
- 2' x 2' suspended ceiling tiles small round holes pattern (also referenced as round hole pattern ceiling tiles).
- 2' x 2' suspended ceiling tiles pinhole and small slot pattern.
- 12" x 12" light green floor tiles on concrete.
- Grout associated with 4" x 6" ceramic tile grout with asbestos mastic thin set.
- Grout and mud set associated with 4" x 6" ceramic tiles (separate from the blue tiles on corridor walls).
- Gypsum board and drywall backer.
- Joint compound.
- Mastic associated with reinforced fiberglass plastic (RFP) panels.
- Caulk on the exterior louvers on the building exterior from the unit ventilators.
- Soft concrete beneath the non-ACM black tar and fabric vapor barrier on the roof deck.
- Black tar patches on the base of roof top vents and air handling units (A separate type of asbestos-containing tar was observed on the base of roof top exhaust fans).
- Black tar sealant along the edges of silver foil jackets on foam insulation to ducts and on roof top air conditioning and air handling units.

NON-ACM MATERIALS CONTAINING TRACE ASBESTOS LESS THAN 1%

All contractors shall note the following material had detectable levels of asbestos present, but was found to be less than or equal to 1.0% asbestos. Therefore this material is classified as non-ACM:

- Brown mastic behind non-ACM black cove base, on CMU walls in classrooms and offices.
- Leveling compound and residual black mastic beneath non-ACM 12" light green floor tiles.

All Contractors shall be aware of and follow the applicable OSHA requirements for handling materials that contain trace asbestos less than 1%. In accordance with 29 CFR 1926.1101, all workers handling these materials are to have appropriate asbestos awareness training and shall establish an onsite OSHA-type wash station. Trace asbestos materials shall be removed using wet methods to the extent feasible. Workers shall contain any removed material, establish ground projection and promptly clean up any loose debris for proper disposal.

LEAD-BASED PAINT SUMMARY

Watts AE personnel conducted a field survey for lead-based paint within the K Building using a portable X-Ray Fluorescence Analyzer (XRF). The XRF field survey was conducted to evaluate the presence of lead-based paint (LBP) on building surfaces that may be impacted by the mechanical renovations project limits. Representative XRF readings were taken on select components that are anticipated to be disturbed by the proposed project.

The LBP survey was performed using the Department of Housing and Urban Development (HUD) protocol. HUD defines LBP, when analyzed by a portable XRF, as paint that contains lead at 1.0 milligram per square centimeter (1.0 mg/cm^2) or greater.
Based on the prior report and representative XRF readings taken on select building components throughout the project limits, **the following surfaces were determined to be coated with lead-based paint (greater than or equal to 1.0 mg/cm^2):**

- Black coated steel beams along corridor upper walls and by the ventilation soffits in each classroom/office. The steel beams were observed along the top of the corridor walls exposed above suspended ceiling tiles.

None of the remaining tested surfaces within the mechanical renovation project limits were determined to be coated with lead-based paint.

The following surfaces/materials within project limits were determined to be coated with non-lead based paint/non-lead containing glazing within project limits:

- Blue glazed ceramic wall tiles on corridor walls abutting classroom door frames (maximum lead content 0.3 mg/cm^2).
- Steel door frames (maximum lead content 0.5 mg/cm^2).
- Upper plaster walls and plaster HVAC duct soffits above classrooms doors (maximum lead content 0.1 mg/cm^2).
- Steel vents in soffits above classroom doors (maximum lead content 0.3 mg/cm^2).
- Concrete masonry block walls in classrooms abutting the corridors (maximum lead content 0.2 mg/cm^2).
- Wood paneling and trim that has replaced removed lockers along corridor walls (maximum lead content 0.1 mg/cm^2).
- Corridor storefront-style double doors and side windows (maximum lead content 0.4 mg/cm^2).

POLYCHLORINATED BIPHENYLS (PCBs)

Watts investigated caulks and sealants within the K Building renovations project limits to determine if polychlorinated biphenyls (PCBs) were present in these materials. Samples were collected from representative locations identified by Watts based on visual observations made at the time of the site visit. The purpose of the laboratory testing was to determine if caulk or sealants contained PCBs and subsequent proper handling and disposal procedures to be followed.

The Environmental Protection Agency (EPA) regulates PCBs and considers any debris generated from construction materials manufactured with PCBs derived from building renovation projects with a concentration of equal to or greater than 50 parts per million (ppm) "PCB bulk product waste". The Toxic Substances Control Act (TSCA) regulations (40 CFR Part 761) prescribes requirements for the proper management of PCB materials, including their handling and disposal. PCB bulk product waste at concentrations ≥50 ppm must follow specific storage, transport and disposal requirements.

Samples were collected for PCB laboratory analysis. Samples of the following caulk/sealant materials were submitted for PCB laboratory analysis:

- Interior caulk along the edges of the storefront-style double doors in corridors.
- Interior storefront window frame caulk on window frames for the bank of windows abutting the student lounges.

The exterior caulk along the edges of louvers was sampled in 2022 as part of the separate K Building mechanical renovations survey and was determined to be non-PCB containing as well as non-ACM.

Summary Laboratory Analysis for PCBs

In accordance with the Toxic Substances Control Act (TSCA) regulations (40 CFR Part 761, the U.S. EPA Environmental Protection Agency (EPA) regulated and prescribes requirements for the proper management of PCB materials, including their handling and disposal. PCB bulk product waste at concentrations greater than or equal to 50 parts per million (50 ppm or 50,000 µg/kg) are defined as "PCB bulk project waste" and must follow specific storage transport and disposal requirements).

None of the caulk/sealant samples collected from the K Building had PCBs detected above 50 ppm. Refer to Section 4.0 for the full PCB laboratory analysis.

UNIVERSAL AND HAZARDOUS WASTES

Watts conducted an evaluation of universal wastes and miscellaneous hazardous materials that may be disturbed by the Building K interior renovations project. Light components within the project limits are proposed to be replaced as part of the renovation.

Ceiling fluorescent light fixtures were observed in the center corridors; in the center lobbies by the center stairwell; in the first floor Student Lounge 123; and in the second floor Classroom 223, a renovated lounge area to be renovated. The ceiling fixtures were observed to be of consistent style and size, each with approximately four 4-foot long mercury bulbs. A total of 264 ceiling fixtures to be removed were observed within the proposed renovation limits (32 first floor fixtures and 36 second floor fixtures), total approximately 264 4-foot mercury containing bulbs and approximately 132 ballasts.

All non-electronic ballasts will need to be inspected for PCBs and/or DEHP di-electric fluids. The non-electronic ballasts will need to be disposed of as hazardous waste. None of the

ceiling mounted fluorescent light fixtures are anticipated to be removed within the remaining classrooms/offices.

Wall mounted exit signs and smoke fire alarms were observed on center corridor walls within the proposed renovation limits. These components will have batteries or other suspect hazardous materials and are on walls proposed to be demolished. Approximately four exit signs and three smoke fire alarms were observed on corridor walls proposed to be demolished for the interior renovation project.

OBSERVATIONS AND COMMENTS

The majority of classroom offices in the K Building have either exposed asbestos-containing 9" x 9" floor tiles, or the floor tiles have been covered with wood laminate flooring (the majority of the first floor classrooms) or covered with non-ACM tiles, non-ACM sheet flooring or covered with carpet squares. Exceptions include janitor closets and all of the student and staff toilets, which renovated with non-ACM flooring as part of the 2021-2022 bathroom renovation project; and second floor classrooms Rooms 260 (non-ACM 12" tiles on concrete), Room 259 (12" tiles on concrete and Room 256 (Room 256 has residual black mastic with trace asbestos less than 1%). In addition, Room 223 has a terrazzo floor and no tiles. This room was once a portion of the adjacent corridor. All other classrooms and offices in the K Building were observed to have either exposed or underlying asbestos-containing flooring abutting up to and beneath the edges of the wall mounted unit ventilators.

All corridor floors in the K building are non-ACM terrazzo. Carpeting was observed on sections of terrazzo flooring in first floor stairwells and lobby areas. Carpet adhesive was determined to be non-ACM.

Sheet metal HVAC ducts were observed above corridor ceiling tiles. No spray-on fireproofing was observed on the decks above the first floor or second floor suspended ceiling tiles.

Accessible sheet metal HVAC ducts were observed to be bare metal with no insulation or suspect ACM stickpin mastic.

All wall mounted unit ventilators are connected to exterior wall louvers. The caulk on the exterior louvers on the K Building was determined to be non-ACM and non-PCB containing.

Prior repair projects and the 2021-2022 bathroom renovation and IDA project at the K Building has replaced limited extent of ACM mud fittings in the basement areas. However all remaining mud-style mud fittings on elbows, tees and associated fittings in the K Building are similar to the asbestos-containing mud fittings, and all of the mud-style fittings in the basement are assumed to be homogeneous and comprised of asbestos-containing material.

The roofing materials and vapor barrier on the concrete deck at the K Building have been determined to be non-ACM. A soft layer of concrete beneath the non-ACM tar vapor barrier on the hard concrete deck was also determined to be non-ACM.

Five of the roof top exhaust fans have patches of asbestos-containing black tar. The remaining roof top exhaust fans, round vents and AC units do not have any visible ACM tar.

Included in this report are the following: drawings indicating approximate bulk sample locations, chain-of-custody forms, laboratory results, laboratory accreditations, and consultant's license and certification.

It is the belief of Watts that this testing includes the hazardous materials present within the project limits. However, if additional suspect materials are identified during the project that have not been sampled, it is recommended that samples of each material be collected and analyzed for asbestos, lead-based paint or PCB content as appropriate.

2.0 – ASBESTOS-CONTAINING MATERIALS (ACM)

2.0 ASBESTOS-CONTAINING MATERIALS

Sampling and Laboratory Methodology

A NYSDOL-certified asbestos inspector from Watts collected bulk samples of all suspect ACM that was identified to be associated within the project limits. Bulk samples were collected using simple hand tools from each matrix identified as a potential ACM.

Samples collected were delivered with the proper chain-of-custody forms to AmeriSci Richmond located in Midlothian, VA, a participant in the Environmental Laboratory Approval Program (ELAP) and National Voluntary Laboratory Approval Program (NVLAP). All materials, except cellulose ceiling tiles and non-friable organically bound (NOB) materials, were analyzed using Polarized Light Microscopy (PLM) using Method 198.1. Cellulose ceiling tiles and NOBs, which include, but are not limited to, flooring materials, mastics, and caulks underwent gravimetric reduction and were analyzed by Polarized Light Microscopy (PLM) Method 198.6. Any cellulose ceiling tiles or NOB materials that were found to be negative under PLM were then analyzed by Transmission Electron Microscopy (TEM) Method 198.4. The New York State Department of Health (NYSDOH) protocol requires analysis by TEM if the PLM analysis does not confirm the presence of asbestos. Samples of spray-on fireproofing were also examined optically during analysis for the presence of vermiculite.

This section includes information on all suspect ACM sampled. This section contains the following: a Homogeneous Materials List containing the homogeneous materials identified, their corresponding sample numbers, and whether or not they are ACM, as well as drawings identifying the approximate locations of asbestos bulk samples.

Where possible, Watts visually inspected the identified ACM to assess its condition. The condition of the ACM was classified as good, fair or poor. The requirement for each designation is as follows:

Good: Material with no visible damage or deterioration or showing very limited damage or deterioration.

Fair: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering less than one tenth of the surface if the damage is evenly distributed or up to 25% of the material if the damage is localized.

Poor: The surface of the material is crumbling, blistering, water-stained, gouged, punctured or otherwise damaged with the damage covering more than one tenth of the surface if the damage is evenly distributed or more than 25% of the material if the damage is localized. Material with large areas hanging from the substrate, delaminated, heavily gouged, crushed, etc.

TABLE 2.1
HOMOGENEOUS MATERIALS LIST
KITTINGER HALL (K BUILDING) INTERIOR RENOVATIONS PROJECT
ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
6205 MAIN STREET, WILLIAMSVILLE, NY

Homogeneous Area (HA)	Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)			ACM (Y/N)
					Friable PLM ELAP 198.1	NOB PLM ELAP 198.6	NOB TEM ELAP 198.4	
1	Window Glazing Compound, Inset Window in Wood Doors	First Floor Room 125 Window in Door	M	230260-01	NA	0.4% Chrysotile	2.1% Chrysotile	Y
		Second Floor Room 237 Window in Door		230260-02	NA	0.3% Chrysotile	NA/PS	
2	2' x 2' Round Hole Pattern Suspended Ceiling Tiles	First Floor Room 125 by Door	M	230260-03	NA	NAD	NAD	N
		Second Floor Room 237 by Door		230260-04	NA	NAD	NAD	
3	Skim Coat Plaster on Vent Soffits Above Doors	First Floor Room 125 Ventilation Soffit	S	230260-05	NAD	NA	NA	N
				230260-06	NAD	NA	NA	
		First Floor Room 125 Ventilation Soffit		230260-07	NAD	NA	NA	
				230260-08	NAD	NA	NA	
		Second Floor Room 347 Ventilation Soffit		230260-09	NAD	NA	NA	
				230260-10	NAD	NA	NA	
		Second Floor Room 234 Ventilation Soffit		230260-11	NAD	NA	NA	
4	Base Coat Plaster on Vent Soffits Above Doors	First Floor Room 125 Ventilation Soffit	S	230260-12	NAD	NA	NA	N
				230260-13	NAD	NA	NA	
		First Floor Room 125 Ventilation Soffit		230260-14	NAD	NA	NA	
				230260-15	NAD	NA	NA	
		Second Floor Room 347 Ventilation Soffit		230260-16	NAD	NA	NA	
				230260-17	NAD	NA	NA	
		Second Floor Room 234 Ventilation Soffit		230260-18	NAD	NA	NA	

TABLE 2.1
HOMOGENEOUS MATERIALS LIST
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ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
6205 MAIN STREET, WILLIAMSVILLE, NY

Homogeneous Area (HA)	Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)			ACM (Y/N)
					Friable PLM ELAP 198.1	NOB PLM ELAP 198.6	NOB TEM ELAP 198.4	
5	Wood Laminate Pattern Sheet Flooring and Adhesive on 9" Tiles	First Floor Room 125 by Door Threshold	M	230260-19	NA	NAD	NAD	N
		Second Floor Room 237 by Door Threshold		230260-20	NA	NAD	NAD	
6	Black Cove Base	First Floor Room 125 Wall by Door to Corridor	M	230260-21	NA	NAD	NAD	N
		Second Floor Room 237 Wall by Door to Corridor		230260-22	NA	NAD	NAD	
7	Brown Mastic Behind Black Cove Base, on CMU Walls	First Floor Room 125 Wall by Door to Corridor	M	230260-23	NA	NAD	NAD	N
		Second Floor Room 237 Wall by Door to Corridor		230260-24	NA	NAD	Trace Chrysotile	
8	2' x 2' Random Small Fissure Suspended Ceiling Tile	First Floor Corridor in Front of Room 135	M	230260-25	NA	NAD	NAD	N
		Second Floor Corridor in Front of Room 234		230260-26	NA	NAD	NAD	
9	Carpet Adhesive on Terrazzo Flooring	First Floor Lobby 168 by Student Lounge 123	M	230260-27	NA	NAD	NAD	N
		First Floor Stairwell 169		230260-28	NA	NAD	NAD	
10	Caulk Edges of Interior Storefront Double Doors in Corridors	First Floor Center Corridor at Lobby 168 by Room 124	M	230260-29	NA	NAD	NAD	N
		First Floor Corridor Double Doors by Room 126		230260-30	NA	NAD	NAD	
11	Window Glazing Compound Storefront Windows Double Doors	First Floor Center Corridor at Lobby 168 by Room 124	M	230260-31	NA	NAD	NAD	N
		First Floor Corridor Double Doors by Room 126		230260-32	NA	NAD	NAD	

TABLE 2.1
HOMOGENEOUS MATERIALS LIST
KITTINGER HALL (K BUILDING) INTERIOR RENOVATIONS PROJECT
ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
6205 MAIN STREET, WILLIAMSVILLE, NY

Homogeneous Area (HA)	Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)			ACM (Y/N)
					Friable PLM ELAP 198.1	NOB PLM ELAP 198.6	NOB TEM ELAP 198.4	
12	Caulk Edges of Bank of Interior Windows and Panels	First Floor Lobby 168 Wall to Lounge 123 East End Abuts Wall	M	230260-33	NA	NAD	NAD	N
		First Floor Lobby 158 Wall to Lounge 123 West End Abuts Wall		230260-34	NA	NAD	NAD	
13	Window Glazing Compound Bank of Interior Windows	First Floor Lobby 168 Wall to Lounge 123	M	230260-35	NA	NAD	NAD	N
				230260-36	NA	NAD	NAD	
14	Paper, Foil and Black Tar Sealant on Fiberglass Pipe Thermal System Insulation	First Floor Lobby 168 Pipes Above Suspended Ceiling	M	230260-37	NA	NAD	NAD	N
		First Floor Room 109 on Pipes Above Suspended Ceiling by Door		230260-38	NA	NAD	NAD	
15	Mud Packing on Roof Drain Elbow Above Suspended Ceiling	Second Floor Corridor on Front of Room 224 Roof Drain Above Suspended Ceiling Tiles	T	230260-39	NAD	NA	NA	N
				230260-40	NAD	NA	NA	
				230260-41	NAD	NA	NA	
16	Mud Joint Packing on Pipe Fittings Above Suspended Ceiling	First Floor Office Room 109 Lobby to Corridor	T	230260-42	NAD	NA	NA	N
				230260-43	NAD	NA	NA	
				230260-44	NAD	NA	NA	
17	Black Lab Bench Tabletop	Room 162	M	230260-45	NAD	NA	NA	N
				230260-46	NAD	NA	NA	
18	**Mastic Between Tabletop and Casework**	**Room 162**	**M**	**230260-47**	**1.3% Chrysotile**	**NA**	**NA**	**Y**
				230260-48	**NA/PS**	**NA**	**NA**	

Abbreviations:

NA – Not analyzed
NAD – No asbestos detected
HM - Homogeneous Area Material Number
ACM – Asbestos Containing Material greater than 1% asbestos

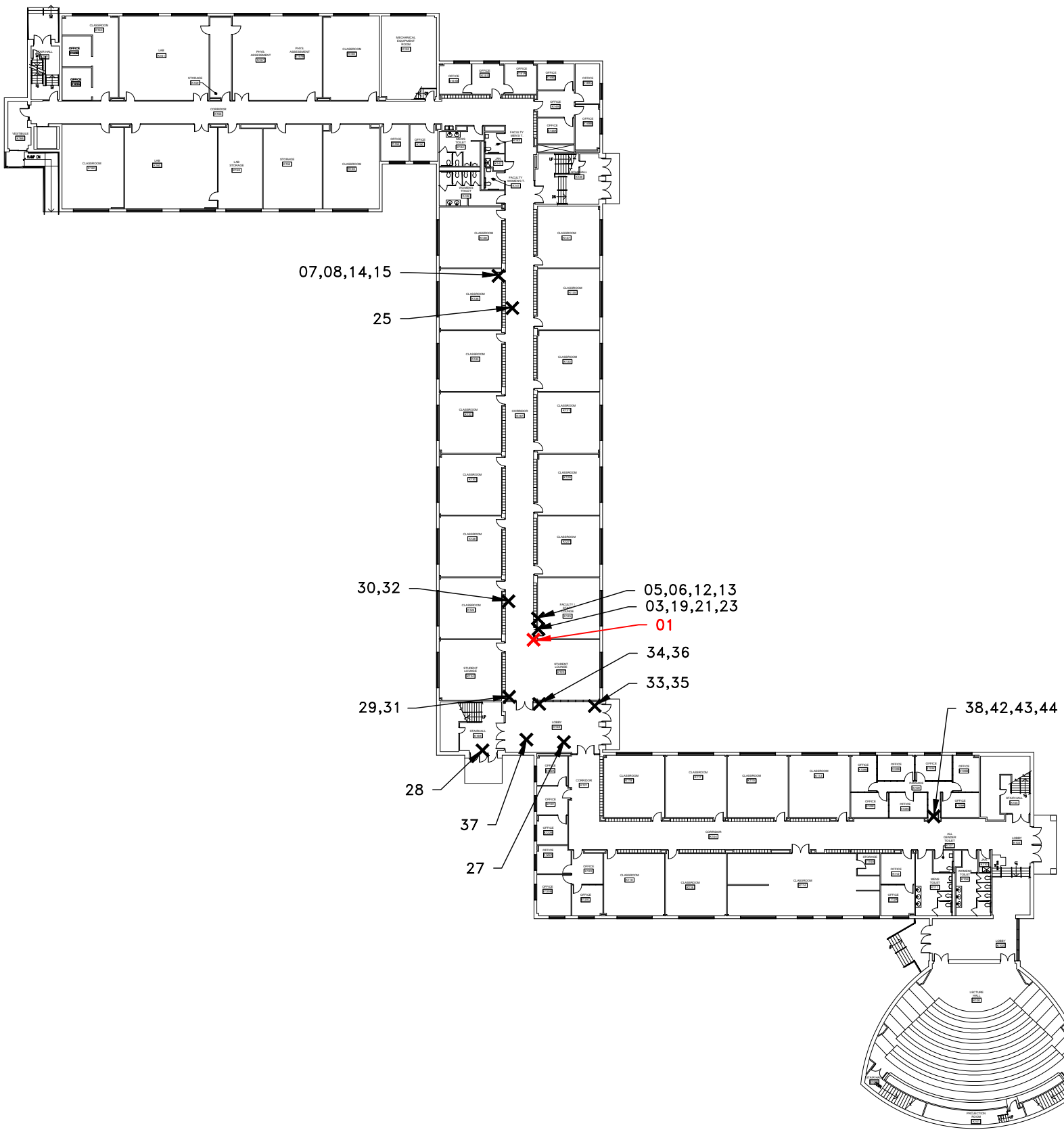
Type
T = Thermal System Insulation
S = Surfacing
M = Miscellaneous

ACM
Y = Yes
N = No

Trace – Less than 1% asbestos
PLM – Polarized Light Microscopy
Friable – Able to be easily pulverized by hand pressure
Bold rows identify asbestos-containing materials

TEM – Transmission Electron Microscopy
NOB – Non Friable Organically Bound

2.1 – BULK SAMPLE LOCATION DRAWINGS



FIRST FLOOR PLAN

ALL SAMPLES ARE PREFIXED BY 230260–
SAMPLES WERE COLLECTED ON AUGUST 17, 2023.

✕ INDICATES APPROXIMATE SAMPLE LOCATION

✕ SAMPLE NUMBERS IN RED WERE IDENTIFIED TO BE ACM.

Watts Architects &Engineers
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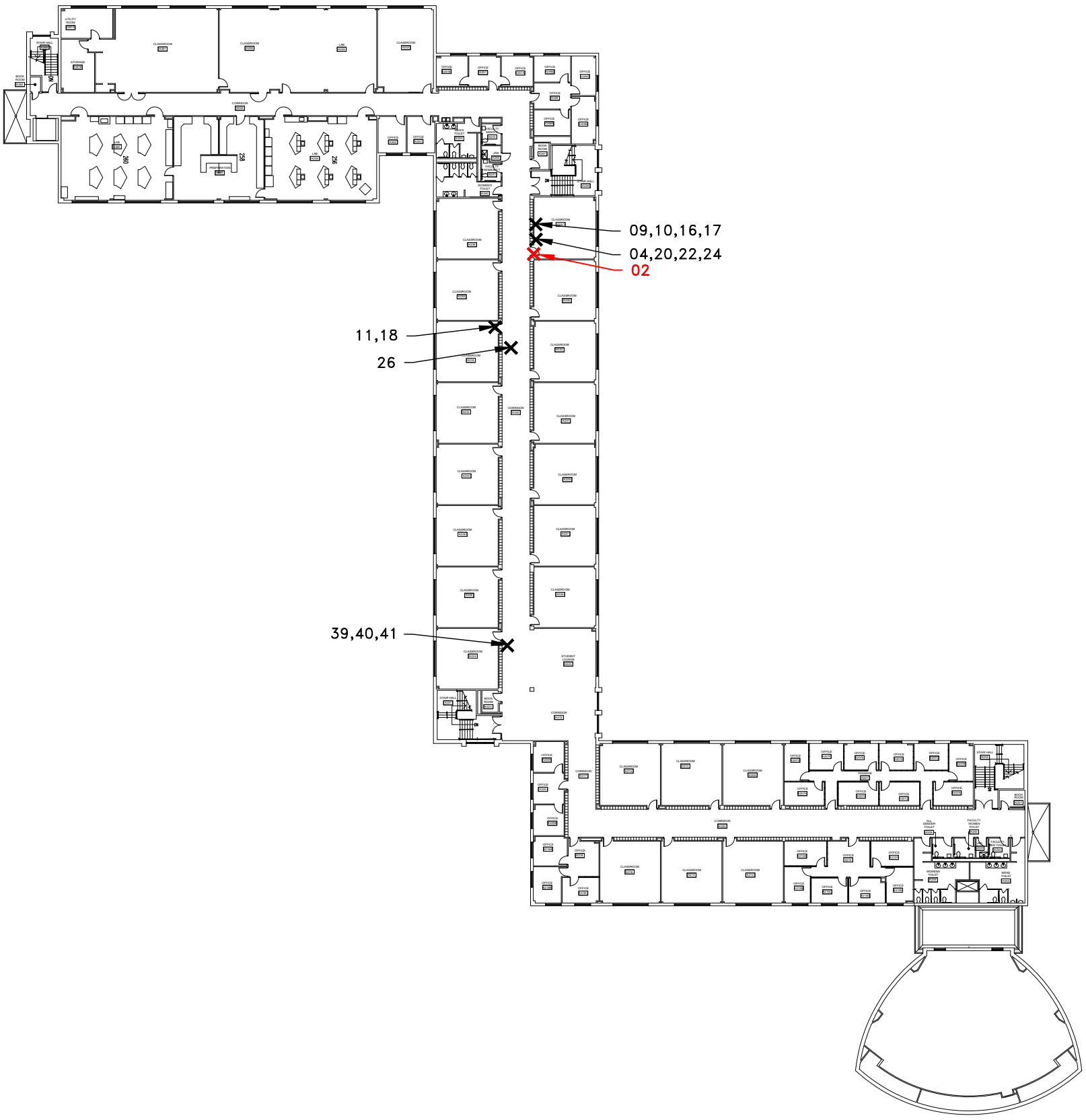
Buffalo, NY 14203

ASBESTOS BULK SAMPLE LOCATIONS
KITTINGER HALL BUILDING K
FIRST FLOOR PLAN

ECC NORTH CAMPUS
WILLIAMSVILLE, NEW YORK

NOT TO SCALE | SEPTEMBER 2023

R:\2023\20230260 SUNY Erie North Camp\18. CADD\Env\20230260_SL–BUILDING K–.dwg Sep 06, 2023, 3:07pm



SECOND FLOOR PLAN

ALL SAMPLES ARE PREFIXED BY 230260–
SAMPLES WERE COLLECTED ON AUGUST 17, 2023.

✕ INDICATES APPROXIMATE SAMPLE LOCATION

✕ SAMPLE NUMBERS IN RED WERE IDENTIFIED TO BE ACM.

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ASBESTOS BULK SAMPLE LOCATIONS
KITTINGER HALL BUILDING K
SECOND FLOOR PLAN

ECC NORTH CAMPUS
WILLIAMSVILLE, NEW YORK

NOT TO SCALE | SEPTEMBER 2023

R:\2023\20230260 SUNY Erie North Camp\18. CADD\Env\20230260_SL–BUILDING K–.dwg Sep 06, 2023, 3:07pm

2.2 – PHOTOGRAPHS

Photo #1 - View of the first floor corridor at Classroom 136. The thin set mastic associated with the blue ceramic wall tiles on the corridor walls has been determined to be an asbestos-containing material. Non-ACM terrazzo flooring is present in the corridors.
Photo Date: 08/17/2023 Corridor and classroom suspended ceiling tiles have been determined to be non-ACM.

Photo #2 - View of the corridor wall and door to Room 125. The window glazing compound for the inset windows for the wood doors to classrooms and offices has been determined to be an asbestos-containing material.
Photo Date: 08/17/2023

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PRE-RENOVATION SURVEY FOR ASBESTOS CONTAINING MATERIALS, POLYCHLORINATED BIPHENYLS IN CAULKS/SEALANTS AND LEAD BASED PAINT

PROJECT PHOTOGRAPHS

Prepared By: EJJ

KITTINGER HALL
INTERIOR RENOVATIONS
ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
6205 MAIN STREET, WILLIAMSVILLE, NY

Project No. 20230260 2023

Photo #3 - View of plywood paneling and the corridor upper plaster walls on the second floor were lockers have been removed. Wall plaster in the building has been determined to be non-ACM. Blue ceramic wall tiles abutting doorways to classrooms has been
Photo Date: 08/17/2023 determined to be an asbestos-containing material. Metal ash urns are set in blue ceramic wall tiles.

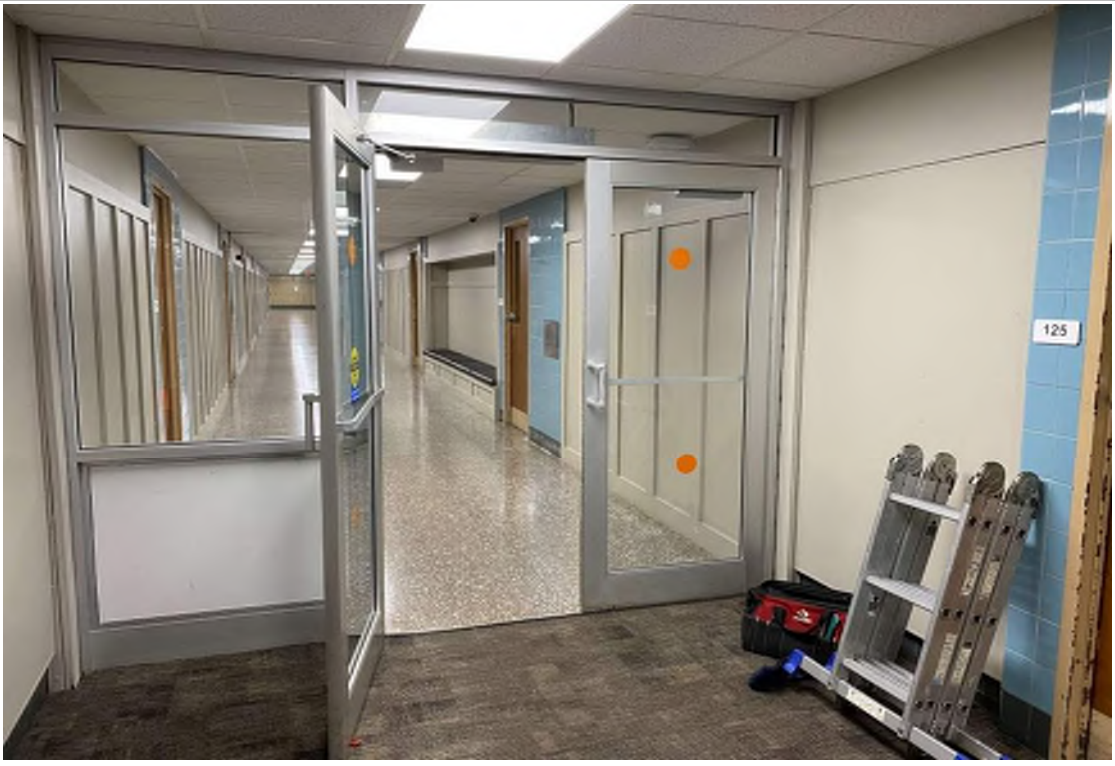

Photo #4 - View of a storefront style door and window system in the first floor corridor by Room 125. The door frame caulk and window glazing compound for this type of storefront style door and windows in the corridors was determined to be non-ACM.
Photo Date: 08/17/2023 Window glazing compound in these types of windows was determined to be non-ACM.

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PRE-RENOVATION SURVEY FOR ASBESTOS CONTAINING MATERIALS, POLYCHLORINATED BIPHENYLS IN CAULKS/SEALANTS AND LEAD BASED PAINT

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6205 MAIN STREET, WILLIAMSVILLE, NY

PROJECT PHOTOGRAPHS

Project No. 20230260 2023

Photo #5 - View in Office 125 facing the corridor. The Paint on concrete masonry block walls was determined to be non-lead based paint. No caulk or sealant was observed along the steel door frames. Window glazing compound for the inset windows in the wood doors was
Photo Date: 08/17/2023 to be an asbestos-containing material. Plaster above the door was determined to be non-ACM (arrow).

Photo #6 - View of non-ACM wood laminate-style sheet flooring on top of 9" asbestos-containing floor tiles in Room 125 by the door.
Photo Date: 08/17/2023 All classrooms and offices in project limits have Asbestos-containing floor tiles beneath sheet flooring.

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PRE-RENOVATION SURVEY FOR ASBESTOS CONTAINING MATERIALS, POLYCHLORINATED BIPHENYLS IN CAULKS/SEALANTS AND LEAD BASED PAINT

KITTINGER HALL
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PROJECT PHOTOGRAPHS

Project No. 20230260 2023

Photo #7 - View of the non-ACM sheet flooring on top of gray 9" asbestos-containing floor tiles in Classroom 234.
Photo Date: 08/17/2023 Trace asbestos less than 1% was detected in the mastic behind vinyl cove base.

Photo #8 - View of the windows in Lobby 168 abutting Student Lounge 123 in the center area of the first floor corridor. The window frame caulk was determined to be non-ACM and non-PCB containing. Window glazing compound was determined to be non-ACM. Carpet
Photo Date: 08/17/2023 adhesive on terrazzo and ceiling tiles were determined to be non-ACM.

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PRE-RENOVATION SURVEY FOR ASBESTOS CONTAINING MATERIALS, POLYCHLORINATED BIPHENYLS IN CAULKS/SEALANTS AND LEAD BASED PAINT

PROJECT PHOTOGRAPHS

Prepared By: EJJ

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Photo #9 - View of fiberglass insulated piping above the suspended ceiling in Lobby 168. The paper with underlying black tar dabs on
Photo Date: 08/17/2023 the fiberglass insulation was determined to be non-ACM. No mudded fittings were observed in this area.

Photo #10 - View of the black structural steel beam above the HVAC vent in classroom 136. The black paint on the steel beams
Photo Date: 08/17/2023 at the edges of corridor walls and above HVAC vents was determined to be lead-based paint.

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PRE-RENOVATION SURVEY FOR ASBESTOS CONTAINING MATERIALS, POLYCHLORINATED BIPHENYLS IN CAULKS/SEALANTS AND LEAD BASED PAINT

PROJECT PHOTOGRAPHS

Prepared By: EJJ

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ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
6205 MAIN STREET, WILLIAMSVILLE, NY

Photo #11 - View of the HVAC duct vent above the doorway in Classroom 234. No caulk or sealant was observed on the vent.
Photo Date: 08/17/2023 The plaster was determined to be non-ACM. The ceiling tiles were also determined to be non-ACM.

Photo #12 - View of large HVAC duct and the base of a roof top AHU above second floor corridor suspended ceiling tiles by Classroom 234.
Photo Date: 08/18/2023 No insulation or suspect asbestos-containing stickpin mastic was observed on accessible corridor ducts.

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PRE-RENOVATION SURVEY FOR ASBESTOS CONTAINING MATERIALS, POLYCHLORINATED BIPHENYLS IN CAULKS/SEALANTS AND LEAD BASED PAINT

PROJECT PHOTOGRAPHS

Prepared By: EJJ

KITTINGER HALL
INTERIOR RENOVATIONS
ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
6205 MAIN STREET, WILLIAMSVILLE, NY

Photo #13 - View above the first floor corridor suspended ceiling tiles by Classroom 136. No spray-on fireproofing was observed on first floor or second floor decks above the suspended ceiling tiles. Paint on red girders was determined to be non-lead based paint. A steel
Photo Date: 08/17/2023 beam with black lead-based paint above a doorway is visible in the concrete masonry block wall (Arrow).

Photo #14 - View of mudded fittings on fiberglass pipe insulation above the suspended ceiling in Office 109, by the door to the corridor.
Photo Date: 08/17/2023 The mudded fittings, paper jacket and tar in the jackets on fiberglass were determined to be non-asbestos.

Photo #15 - View of a mudded insulation roof drain at the ceiling in the second floor corridor in front of Classroom 224.
Photo Date: 08/17/2023 The mudded elbow on the roof drain was determined to be non-asbestos.

Photo #16 - View of a section of bare sheet metal HVAC duct above the second floor corridor suspended ceiling in front of Classroom 222.
Photo Date: 08/17/2023 No pin mastic or insulation was observed on the duct. A Non-ACM roof drain elbow is visible (Arrow).

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Prepared By: EJJ

PRE-RENOVATION SURVEY FOR ASBESTOS CONTAINING MATERIALS, POLYCHLORINATED BIPHENYLS IN CAULKS/SEALANTS AND LEAD BASED PAINT

KITTINGER HALL
INTERIOR RENOVATIONS
ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
6205 MAIN STREET, WILLIAMSVILLE, NY

PROJECT PHOTOGRAPHS

Project No. 20230260 2023

2.3 – LABORATORY REPORT & CHAIN-OF-CUSTODY FORMS

BULK SAMPLE CHAIN-OF-CUSTODY FORMS

The purpose of the chain-of-custody form is to reduce the possibility of misidentifying individual samples, to help trace any samples that may be lost, and to provide a record certifying that the samples were delivered to and received by the analytical laboratory.

An important feature of this form is the signature section at the bottom, identifying all persons who handled the samples.

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Watts Architecture & Engineers
Attn: Edward Jones
95 Perry Street
Suite 300
Buffalo, NY 14203

Date Received 08/21/23
Date Examined 08/25/23
ELAP # 10984
AmeriSci Job # 123081783
P.O. #

RE: 20230260; ECC Kittinger Hall Interior Renovations; ECC North Campus Building K, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
230260-01	123081783-01	***Yes***	0.4%
1	**Location:** Window Glazing Compound, Insert Window In Wood Doors; First Floor Room 125 Windows In Doors 7.5" x 35.5" 1/2"		(NOB by EPA 600/M4-82-020) by William M. Dunstan on 08/25/23
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 0.4% **Other Material:** Non-fibrous 40%			
230260-02	123081783-02	***Yes***	0.3%
1	**Location:** Window Glazing Compound, Insert Window In Wood Doors; Second Floor Room 237 Windows In Doors 7.5" x 35.5' 1/2"		(NOB by EPA 600/M4-82-020) by William M. Dunstan on 08/25/23
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 0.3% **Other Material:** Non-fibrous 26%			
230260-03	123081783-03	***No***	NAD
2	**Location:** 2' x 2' Round Hole Pattern Suspended Ceiling Tiles; First Floor Room 125 By Door		(NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 30%			
230260-04	123081783-04	***No***	NAD
2	**Location:** 2' x 2' Round Hole Pattern Suspended Ceiling Tiles; Second Floor Room 237 By Doors		(NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 35%			
230260-05	123081783-05	***No***	NAD
3	**Location:** Skim Coat Plaster On Vent Soffits Above Doors; First Floor Room 125 Ventilation Soffit Above Door To Corridor		(by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

20230260; ECC Kittinger Hall Interior Renovations; ECC North Campus Building K, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
230260-06	123081783-06	***No***	NAD
3	**Location:** Skim Coat Plaster On Vent Soffits Above Doors; First Floor Room 125 Ventilation Soffit Above Door To Corridor		(by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
230260-07	123081783-07	***No***	NAD
3	**Location:** Skim Coat Plaster On Vent Soffits Above Doors; First Floor Room 136 Ventilation Soffit Above Door To Corridor		(by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
230260-08	123081783-08	***No***	NAD
3	**Location:** Skim Coat Plaster On Vent Soffits Above Doors; First Floor Room 136 Ventilation Soffit Above Door To Corridor		(by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
230260-09	123081783-09	***No***	NAD
3	**Location:** Skim Coat Plaster On Vent Soffits Above Doors; Second Floor Room 237 Ventilation Soffit Above Door To Corridor		(by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
230260-10	123081783-10	***No***	NAD
3	**Location:** Skim Coat Plaster On Vent Soffits Above Doors; Second Floor Room 237 Ventilation Soffit Above Door To Corridor		(by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
230260-11	123081783-11	***No***	NAD
3	**Location:** Skim Coat Plaster On Vent Soffits Above Doors; First Floor Room 234 Ventilation Soffit Above Door To Corridor		(by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

20230260; ECC Kittinger Hall Interior Renovations; ECC North Campus Building K, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
230260-12	123081783-12	***No***	NAD
4	**Location:** Base Coat Plaster On Vent Soffits Above Doors; First Floor Room 125 Ventilation Soffit Above Door To Corridor		(by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
230260-13	123081783-13	***No***	NAD
4	**Location:** Base Coat Plaster On Vent Soffits Above Doors; First Floor Room 125 Ventilation Soffit Above Door To Corridor		(by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
230260-14	123081783-14	***No***	NAD
4	**Location:** Base Coat Plaster On Vent Soffits Above Doors; First Floor Room 136 Ventilation Soffit Above Door To Corridor		(by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
230260-15	123081783-15	***No***	NAD
4	**Location:** Base Coat Plaster On Vent Soffits Above Doors; First Floor Room 136 Ventilation Soffit Above Door To Corridor		(by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
230260-16	123081783-16	***No***	NAD
4	**Location:** Base Coat Plaster On Vent Soffits Above Doors; Second Floor Room 237 Ventilation Soffit Above Door To Corridor		(by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
230260-17	123081783-17	***No***	NAD
4	**Location:** Base Coat Plaster On Vent Soffits Above Doors; Second Floor Room 237 Ventilation Soffit Above Door To Corridor		(by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			

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PLM Bulk Asbestos Report

20230260; ECC Kittinger Hall Interior Renovations; ECC North Campus Building K, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
230260-18 4	123081783-18 **Location:** Base Coat Plaster On Vent Soffits Above Doors; Second Floor Room 234 Ventilation Soffit Above Door To Corridor	***No***	NAD (by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Cementitious, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
230260-19 5	123081783-19 **Location:** Wood Laminate Pattern Sheet Flooring And Adhesive On Floor Tiles; First Floor Room 125 By Door Threshold On 9" Gray Floor Tiles	***No***	NAD (NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.1%			
230260-20 5	123081783-20 **Location:** Wood Laminate Pattern Sheet Flooring And Adhesive On Floor Tiles; First Floor Room 125 By Door Threshold On 9" Gray Floor Tiles	***No***	NAD (NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.1%			
230260-21 6	123081783-21 **Location:** Black Cove Base; First Floor Room 125 Wall By Door To Corridor	***No***	NAD (NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 1.9%			
230260-22 6	123081783-22 **Location:** Black Cove Base; Second Floor Room 237 By Door To Corridor	***No***	NAD (NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.8%			
230260-23 7	123081783-23 **Location:** Brown Mastic Behind Black Cove Base, On CMU Wall; First Floor Room 125 Wall By Door To Corridor	***No***	NAD (NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 45%			

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PLM Bulk Asbestos Report

20230260; ECC Kittinger Hall Interior Renovations; ECC North Campus Building K, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
230260-24 7	123081783-24 **Location:** Brown Mastic Behind Black Cove Base, On CMU Wall; Second Floor Room 237 By Door To Corridor	***No***	NAD (NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 43%			
230260-25 8	123081783-25 **Location:** 2' x 2' Random Small Fissure Suspended Ceiling Tile; First Floor Corridor In Front Of Room 136	***No***	NAD (NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 51%			
230260-26 8	123081783-26 **Location:** 2' x 2' Random Small Fissure Suspended Ceiling Tile; Second Floor Corridor In Front Of Room 234	***No***	NAD (NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 55%			
230260-27 9	123081783-27 **Location:** Carpet Adhesive On Terrazzo Flooring; First Floor Lobby 168 By Student Lounge 123	***No***	NAD (NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Cream, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 0.1%			
230260-28 9	123081783-28 **Location:** Carpet Adhesive On Terrazzo Flooring; First Floor Stairwell 169	***No***	NAD (NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Cream, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 9.6%			
230260-29 10	123081783-29 **Location:** Caulk Edges Of Interior Storefront Double Doors In Corridors; First Floor Center Corridor At Lobby 168 By Room 124 Both Sides Of Frame At Wall 7 LF	***No***	NAD (NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 12%			

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PLM Bulk Asbestos Report

20230260; ECC Kittinger Hall Interior Renovations; ECC North Campus Building K, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
230260-30	123081783-30	***No***	NAD
10	**Location:** Caulk Edges Of Interior Storefront Double Doors In Corridors; First Floor Corridor Double Doors By Room 126 Both Sides Of Frame At Wall 7 LF		(NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 16%			
230260-31	123081783-31	***No***	NAD
11	**Location:** Window Glazing Compound Storefront Windows Double Doors; First Floor Center Corridor At Lobby 168 By Room 124		(NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 26%			
230260-32	123081783-32	***No***	NAD
11	**Location:** Window Glazing Compound Storefront Windows Double Doors; First Floor Corridor Double Doors By Room 126		(NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 2.3%			
230260-33	123081783-33	***No***	NAD
12	**Location:** Caulk Edges Of Bank Of Interior Windows And Panels; First Floor Lobby 168 Wall To Lounge 123, East End Abuts Wall		(NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 11%			
230260-34	123081783-34	***No***	NAD
12	**Location:** Caulk Edges Of Bank Of Interior Windows And Panels; First Floor Lobby 168 Wall To Lounge 123, West End Abuts Wall		(NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 10%			
230260-35	123081783-35	***No***	NAD
13	**Location:** Window Glazing Compound Bank Of Interior Windows; First Floor Lobby 168 Wall To Lounge 123		(NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 6.4%			

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PLM Bulk Asbestos Report

20230260; ECC Kittinger Hall Interior Renovations; ECC North Campus Building K, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
230260-36 13	123081783-36 **Location:** Window Glazing Compound Bank Of Interior Windows; First Floor Lobby 168 Wall To Lounge 123	***No***	NAD (NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 7.8%			
230260-37 14	123081783-37 **Location:** Paper, Foil And Black Tar Sealant On Fiberglass Pipe TSI; First Floor Lobby 168 Pipes Above Suspended Ceiling Tiles	***No***	NAD (NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Silver, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 25%			
230260-38 14	123081783-38 **Location:** Paper, Foil And Black Tar Sealant On Fiberglass Pipe TSI; First Floor Room 109 On Pipes Above Suspended Ceiling By Door To Corridor	***No***	NAD (NOB by NYS ELAP 198.6) by William M. Dunstan on 08/25/23
Analyst Description: Silver, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 24%			
230260-39 15	123081783-39 **Location:** Mud Packing On Roof Drain Elbow Above Suspended Ceiling; Second Floor Corridor In Front Of Room 224 Roof Drain Above Suspended Ceiling Tiles	***No***	NAD (by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 40%, Non-fibrous 60%			
230260-40 15	123081783-40 **Location:** Mud Packing On Roof Drain Elbow Above Suspended Ceiling; Second Floor Corridor In Front Of Room 224 Roof Drain Above Suspended Ceiling Tiles	***No***	NAD (by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 40%, Non-fibrous 60%			
230260-41 15	123081783-41 **Location:** Mud Packing On Roof Drain Elbow Above Suspended Ceiling; Second Floor Corridor In Front Of Room 224 Roof Drain Above Suspended Ceiling Tiles	***No***	NAD (by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 40%, Non-fibrous 60%			

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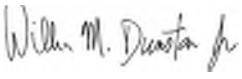
PLM Bulk Asbestos Report

20230260; ECC Kittinger Hall Interior Renovations; ECC North Campus Building K, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
230260-42 16	123081783-42 **Location:** Mud Joint Packing On Pipe Fittings Above Suspended Ceiling; First Floor Office Room 109 Lobby By Corridor 2 Mudded Elbows Above Ceiling	***No***	NAD (by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 40%, Non-fibrous 60%			
230260-43 16	123081783-43 **Location:** Mud Joint Packing On Pipe Fittings Above Suspended Ceiling; First Floor Office Room 109 Lobby By Corridor 2 Mudded Elbows Above Ceiling	***No***	NAD (by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 40%, Non-fibrous 60%			
230260-44 16	123081783-44 **Location:** Mud Joint Packing On Pipe Fittings Above Suspended Ceiling; First Floor Office Room 109 Lobby By Corridor 2 Mudded Elbows Above Ceiling	***No***	NAD (by NYS ELAP 198.1) by William M. Dunstan on 08/25/23
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 40%, Non-fibrous 60%			

Reporting Notes:

Analyzed by: William M. Dunstan  Reviewed by: Cory M. Parnell 

Date: 8/25/2023

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis using Olympus, Model BH-2 microscope, Serial #233533, by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Client Name: Watts Architecture & Engineers

Table I
Summary of Bulk Asbestos Analysis Results by NYS ELAP 198.4

20230260; ECC Kittinger Hall Interior Renovations; ECC North Campus Building K, Williamsville, NY

AmeriSci Sample #	Client Sample#	HG Area	NOB Sample Weight (gram)	NOB Heat Sensitive Organic %	NOB Acid Soluble Inorganic %	NOB Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	230260-01	1	0.474	14.0	44.8	39.1	Chrysotile 0.4	Chrysotile 2.1
Location:	Window Glazing Compound, Insert Window In Wood Doors; First Floor Room 125 Windows In Doors 7.5" x 35.5" 1/2"							
02	230260-02	1	0.458	15.3	58.3	26.1	Chrysotile 0.3	NA/PS
Location:	Window Glazing Compound, Insert Window In Wood Doors; Second Floor Room 237 Windows In Doors 7.5" x 35.5' 1/2"							
03	230260-03	2	0.210	13.0	56.4	30.6	NAD	NAD
Location:	2' x 2' Round Hole Pattern Suspended Ceiling Tiles; First Floor Room 125 By Door							
04	230260-04	2	0.396	15.5	49.1	35.4	NAD	NAD
Location:	2' x 2' Round Hole Pattern Suspended Ceiling Tiles; Second Floor Room 237 By Doors							
05	230260-05	3	----	----	----	----	NAD	NA
Location:	Skim Coat Plaster On Vent Soffits Above Doors; First Floor Room 125 Ventilation Soffit Above Door To Corridor							
06	230260-06	3	----	----	----	----	NAD	NA
Location:	Skim Coat Plaster On Vent Soffits Above Doors; First Floor Room 125 Ventilation Soffit Above Door To Corridor							
07	230260-07	3	----	----	----	----	NAD	NA
Location:	Skim Coat Plaster On Vent Soffits Above Doors; First Floor Room 136 Ventilation Soffit Above Door To Corridor							
08	230260-08	3	----	----	----	----	NAD	NA
Location:	Skim Coat Plaster On Vent Soffits Above Doors; First Floor Room 136 Ventilation Soffit Above Door To Corridor							
09	230260-09	3	----	----	----	----	NAD	NA
Location:	Skim Coat Plaster On Vent Soffits Above Doors; Second Floor Room 237 Ventilation Soffit Above Door To Corridor							
10	230260-10	3	----	----	----	----	NAD	NA
Location:	Skim Coat Plaster On Vent Soffits Above Doors; Second Floor Room 237 Ventilation Soffit Above Door To Corridor							
11	230260-11	3	----	----	----	----	NAD	NA
Location:	Skim Coat Plaster On Vent Soffits Above Doors; First Floor Room 234 Ventilation Soffit Above Door To Corridor							
12	230260-12	4	----	----	----	----	NAD	NA
Location:	Base Coat Plaster On Vent Soffits Above Doors; First Floor Room 125 Ventilation Soffit Above Door To Corridor							
13	230260-13	4	----	----	----	----	NAD	NA
Location:	Base Coat Plaster On Vent Soffits Above Doors; First Floor Room 125 Ventilation Soffit Above Door To Corridor							
14	230260-14	4	----	----	----	----	NAD	NA
Location:	Base Coat Plaster On Vent Soffits Above Doors; First Floor Room 136 Ventilation Soffit Above Door To Corridor							
15	230260-15	4	----	----	----	----	NAD	NA
Location:	Base Coat Plaster On Vent Soffits Above Doors; First Floor Room 136 Ventilation Soffit Above Door To Corridor							
16	230260-16	4	----	----	----	----	NAD	NA
Location:	Base Coat Plaster On Vent Soffits Above Doors; Second Floor Room 237 Ventilation Soffit Above Door To Corridor							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results by NYS ELAP 198.4

20230260; ECC Kittinger Hall Interior Renovations; ECC North Campus Building K, Williamsville, NY

AmeriSci Sample #	Client Sample#	HG Area	NOB Sample Weight (gram)	NOB Heat Sensitive Organic %	NOB Acid Soluble Inorganic %	NOB Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
17	230260-17	4	----	----	----	----	NAD	NA
Location:	Base Coat Plaster On Vent Soffits Above Doors; Second Floor Room 237 Ventilation Soffit Above Door To Corridor							
18	230260-18	4	----	----	----	----	NAD	NA
Location:	Base Coat Plaster On Vent Soffits Above Doors; Second Floor Room 234 Ventilation Soffit Above Door To Corridor							
19	230260-19	5	0.327	72.0	26.9	1.1	NAD	NAD
Location:	Wood Laminate Pattern Sheet Flooring And Adhesive On Floor Tiles; First Floor Room 125 By Door Threshold On 9" Gray Floor Tiles							
20	230260-20	5	0.303	67.3	31.6	1.1	NAD	NAD
Location:	Wood Laminate Pattern Sheet Flooring And Adhesive On Floor Tiles; First Floor Room 125 By Door Threshold On 9" Gray Floor Tiles							
21	230260-21	6	0.460	50.6	47.4	1.9	NAD	NAD
Location:	Black Cove Base; First Floor Room 125 Wall By Door To Corridor							
22	230260-22	6	0.360	40.3	58.9	0.8	NAD	NAD
Location:	Black Cove Base; Second Floor Room 237 By Door To Corridor							
23	230260-23	7	0.546	52.7	2.3	45.0	NAD	NAD
Location:	Brown Mastic Behind Black Cove Base, On CMU Wall; First Floor Room 125 Wall By Door To Corridor							
24	230260-24	7	0.747	46.7	10.2	43.0	NAD	Chrysotile Trace
Location:	Brown Mastic Behind Black Cove Base, On CMU Wall; Second Floor Room 237 By Door To Corridor							
25	230260-25	8	0.193	27.8	21.1	51.1	NAD	NAD
Location:	2' x 2' Random Small Fissure Suspended Ceiling Tile; First Floor Corridor In Front Of Room 136							
26	230260-26	8	0.210	24.2	20.8	55.0	NAD	NAD
Location:	2' x 2' Random Small Fissure Suspended Ceiling Tile; Second Floor Corridor In Front Of Room 234							
27	230260-27	9	0.469	94.2	5.7	0.1	NAD	NAD
Location:	Carpet Adhesive On Terrazzo Flooring; First Floor Lobby 168 By Student Lounge 123							
28	230260-28	9	0.568	80.3	10.2	9.6	NAD	NAD
Location:	Carpet Adhesive On Terrazzo Flooring; First Floor Stairwell 169							
29	230260-29	10	0.375	65.4	22.4	12.2	NAD	NAD
Location:	Caulk Edges Of Interior Storefront Double Doors In Corridors; First Floor Center Corridor At Lobby 168 By Room 124 Both Sides Of Frame At Wall 7 LF							
30	230260-30	10	0.516	72.9	10.2	16.8	NAD	NAD
Location:	Caulk Edges Of Interior Storefront Double Doors In Corridors; First Floor Corridor Double Doors By Room 126 Both Sides Of Frame At Wall 7 LF							
31	230260-31	11	0.203	66.0	7.4	26.6	NAD	NAD
Location:	Window Glazing Compound Storefront Windows Double Doors; First Floor Center Corridor At Lobby 168 By Room 124							
32	230260-32	11	0.228	88.0	9.6	2.3	NAD	NAD
Location:	Window Glazing Compound Storefront Windows Double Doors; First Floor Corridor Double Doors By Room 126							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results by NYS ELAP 198.4

20230260; ECC Kittinger Hall Interior Renovations; ECC North Campus Building K, Williamsville, NY

AmeriSci Sample #	Client Sample#	HG Area	NOB Sample Weight (gram)	NOB Heat Sensitive Organic %	NOB Acid Soluble Inorganic %	NOB Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
33	230260-33	12	0.471	63.4	24.8	11.8	NAD	NAD
Location:	Caulk Edges Of Bank Of Interior Windows And Panels; First Floor Lobby 168 Wall To Lounge 123, East End Abuts Wall							
34	230260-34	12	0.486	64.2	25.3	10.5	NAD	NAD
Location:	Caulk Edges Of Bank Of Interior Windows And Panels; First Floor Lobby 168 Wall To Lounge 123, West End Abuts Wall							
35	230260-35	13	0.299	83.7	10.0	6.4	NAD	NAD
Location:	Window Glazing Compound Bank Of Interior Windows; First Floor Lobby 168 Wall To Lounge 123							
36	230260-36	13	0.201	83.2	9.0	7.8	NAD	NAD
Location:	Window Glazing Compound Bank Of Interior Windows; First Floor Lobby 168 Wall To Lounge 123							
37	230260-37	14	0.308	70.1	4.8	25.1	NAD	NAD
Location:	Paper, Foil And Black Tar Sealant On Fiberglass Pipe TSI; First Floor Lobby 168 Pipes Above Suspended Ceiling Tiles							
38	230260-38	14	0.365	67.6	8.1	24.3	NAD	NAD
Location:	Paper, Foil And Black Tar Sealant On Fiberglass Pipe TSI; First Floor Room 109 On Pipes Above Suspended Ceiling By Door To Corridor							
39	230260-39	15	----	----	----	----	NAD	NA
Location:	Mud Packing On Roof Drain Elbow Above Suspended Ceiling; Second Floor Corridor In Front Of Room 224 Roof Drain Above Suspended Ceiling Tiles							
40	230260-40	15	----	----	----	----	NAD	NA
Location:	Mud Packing On Roof Drain Elbow Above Suspended Ceiling; Second Floor Corridor In Front Of Room 224 Roof Drain Above Suspended Ceiling Tiles							
41	230260-41	15	----	----	----	----	NAD	NA
Location:	Mud Packing On Roof Drain Elbow Above Suspended Ceiling; Second Floor Corridor In Front Of Room 224 Roof Drain Above Suspended Ceiling Tiles							
42	230260-42	16	----	----	----	----	NAD	NA
Location:	Mud Joint Packing On Pipe Fittings Above Suspended Ceiling; First Floor Office Room 109 Lobby By Corridor 2 Mudded Elbows Above Ceiling							
43	230260-43	16	----	----	----	----	NAD	NA
Location:	Mud Joint Packing On Pipe Fittings Above Suspended Ceiling; First Floor Office Room 109 Lobby By Corridor 2 Mudded Elbows Above Ceiling							
44	230260-44	16	----	----	----	----	NAD	NA
Location:	Mud Joint Packing On Pipe Fittings Above Suspended Ceiling; First Floor Office Room 109 Lobby By Corridor 2 Mudded Elbows Above Ceiling							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results by NYS ELAP 198.4

20230260; ECC Kittinger Hall Interior Renovations; ECC North Campus Building K, Williamsville, NY

AmeriSci Sample #	Client Sample#	HG Area	NOB Sample Weight (gram)	NOB Heat Sensitive Organic %	NOB Acid Soluble Inorganic %	NOB Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM

Analyzed by: Cory M. Parnell

Date: 8/26/2023

Reviewed by: Cory M. Parnell

Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%; PLM analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) or NY ELAP 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab # 10984); TEM prep by EPA 600/R-93/116 Section 2.3 (analysis by Section 2.5, not covered by NVLAP Bulk accreditation); or NY ELAP 198.4 for New York NOB samples (NY ELAP Lab # 10984). Analysis using Jeol, Model JEM-100CX II microscope, Serial #156147-247. ** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.

123081783

WATTS ARCHITECTS & ENGINEERS
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Client: Erie County DPW
Date: Thurs 08/17/2023
Project: ECC Kittinger Hall Interior Renovations
Watts Project No.: 20230260
Building / Location: ECC North Campus Building K, Williamsville, NY
Contact: Edward J. Jones **at (716) 430-9349**
Preliminary Results to: ejones@watts-ae.com **and** kjanik@watts-ae.com
Mail Report & Invoice to: **Watts Architects & Engineers**
95 Perry Street, Buffalo, NY 14203

Analysis Requested:
198.1 x
198.6 x
198.4 x

Turnaround Requested:
3 Hr. 48 Hr.
6 Hr. 72 Hr.
12 Hr. 4 Day
24 Hr. X 5 Day
7 Day

Sample Number	Material Description	HA	Sample Location	Laboratory Results PLM	TEM
230260-01	Window glazing compound, inset window in wood doors	1	First floor Room 125 windows in doors 7.5" x 35.5" 1/2"		
230260-02	Window glazing compound, inset window in wood doors	1	Second floor Room 237 windows in doors 7.5" x 35.5" 1/2"		
230260-03	2' x 2' round hole pattern suspended ceiling tiles	2	First floor Room 125 by door		
230260-04	2' x 2' round hole pattern suspended ceiling tiles	2	Second floor Room 237 by door		
230260-05	Skim coat plaster on vent soffits above doors	3	First floor Room 125 ventilation soffit above door to corridor		
230260-06	Skim coat plaster on vent soffits above doors	3	First floor Room 125 ventilation soffit above door to corridor		
230260-07	Skim coat plaster on vent soffits above doors	3	First floor Room 136 ventilation soffit above door to corridor		
230260-08	Skim coat plaster on vent soffits above doors	3	First floor Room 136 ventilation soffit above door to corridor		
230260-09	Skim coat plaster on vent soffits above doors	3	Second floor Room 237 ventilation soffit above door to corridor		
230260-10	Skim coat plaster on vent soffits above doors	3	Second floor Room 237 ventilation soffit above door to corridor		
230260-11	Skim coat plaster on vent soffits above doors	3	Second floor Room 234 ventilation soffit above door to corridor		
230260-12	Base coat plaster on vent soffits above doors	4	First floor Room 125 ventilation soffit above door to corridor		
230260-13	Base coat plaster on vent soffits above doors	4	First floor Room 125 ventilation soffit above door to corridor		
230260-14	Base coat plaster on vent soffits above doors	4	First floor Room 136 ventilation soffit above door to corridor		
230260-15	Base coat plaster on vent soffits above doors	4	First floor Room 136 ventilation soffit above door to corridor		
230260-16	Base coat plaster on vent soffits above doors	4	Second floor Room 237 ventilation soffit above door to corridor		
230260-17	Base coat plaster on vent soffits above doors	4	Second floor Room 237 ventilation soffit above door to corridor		
230260-18	Base coat plaster on vent soffits above doors	4	Second floor Room 234 ventilation soffit above door to corridor		

Sampled By: Edward J. Jones **Date:** 08/17/23 **Received By:** _____ **Date:** _____

Relinquished By: Edward J Jones **Date:** 08/18/23 16:30 **Received By:** _____ **Date:** _____

Comments: If PLM NOB is negative, analyze by TEM. Stop at first positive for each homogeneous material description group.
If Vermiculite is detected , cease analysis and contact the Watts Project Manager for further instructions.

Received
AUG 21 2023

123081783

WATTS ARCHITECTS & ENGINEERS
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Client: Erie County DPW
Date: Thurs 08/17/2023
Project: ECC Kittinger Hall Interior Renovations
Watts Project No.: 20230260
Building / Location: ECC North Campus Building K, Williamsville, NY
Contact: Edward J. Jones **at (716) 430-9349**
Preliminary Results to: ejones@watts-ae.com **and** kjanik@watts-ae.com
Mail Report & Invoice to: **Watts Architects & Engineers**, **95 Perry Street, Buffalo, NY 14203**

Analysis Requested:
198.1 x 198.6 x
198.4 x

Turnaround Requested:
3 Hr. 48 Hr.
6 Hr. 72 Hr.
12 Hr. 4 Day
24 Hr. X 5 Day
7 Day

Sample Number	Material Description	HA	Sample Location	Laboratory Results PLM	TEM
230260-19	Wood laminate pattern sheet flooring and adhesive on 9" floor tiles	5	First floor Room 125 by door threshold on 9" gray floor tiles		
230260-20	Wood laminate pattern sheet flooring and adhesive on 9" floor tiles	5	Second floor Room 237 by door threshold on 9" gray floor tiles		
230260-21	Black cove base	6	First floor Room 125 wall by door to corridor		
230260-22	Black cove base	6	Second floor Room 237 by door to corridor		
230260-23	Brown mastic behind black cove base, on CMU wall	7	First floor Room 125 wall by door to corridor		
230260-24	Brown mastic behind black cove base, on CMU wall	7	Second floor Room 237 by door to corridor		
230260-25	2' x 2' random small fissure suspended ceiling tile	8	First floor corridor in front of Room 136		
230260-26	2' x 2' random small fissure suspended ceiling tile	8	Second floor corridor in front of Room 234		
230260-27	Carpet adhesive on terrazzo flooring	9	First floor Lobby 168 by Student Lounge 123		
230260-28	Carpet adhesive on terrazzo flooring	9	First floor stairwell 169		
230260-29	Caulk edges of interior storefront double doors in corridors	10	First floor center corridor at Lobby 168 by Room 124 both sides of frame at wall 7 LF		
230260-30	Caulk edges of interior storefront double doors in corridors	10	First floor corridor double doors by Room 126 both sides of frame at wall 7 LF		
230260-31	Window glazing compound storefront windows double doors	11	First floor center corridor at Lobby 168 by Room 124		
230260-32	Window glazing compound storefront windows double doors	11	First floor corridor double doors by Room 126		
230260-33	Caulk edges of bank of interior windows and panels	12	First floor Lobby 168 wall to Lounge 123, east end abuts wall		
230260-34	Caulk edges of bank of interior windows and panels	12	First floor Lobby 168 wall to Lounge 123, west end abuts wall		
230260-35	Window glazing compound bank of interior windows	13	First floor Lobby 168 wall to Lounge 123		
230260-36	Window glazing compound bank of interior windows	13	First floor Lobby 168 wall to Lounge 123		

Sampled By: Edward J. Jones **Date:** 08/17/23 **Received By:** _____ **Date:** _____
Relinquished By: Edward J. Jones **Date:** 08/18/23 16:30 **Received By:** _____ **Date:** _____

Comments: If PLM NOB is negative, analyze by TEM. Stop at first positive for each homogeneous material description group.
If Vermiculite is detected , cease analysis and contact the Watts Project Manager for further instructions.

Received
AUG 21 2023

123081783

WATTS ARCHITECTS & ENGINEERS
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Client: Erie County DPW
Date: Thurs 08/17/2023
Project: ECC Kittinger Hall Interior Renovations
Watts Project No.: 20230260
Building / Location: ECC North Campus Building K, Williamsville, NY
Contact: Edward J. Jones **at (716) 430-9349**
Preliminary Results to: ejones@watts-ae.com **and** kjanik@watts-ae.com
Mail Report & Invoice to: **Watts Architects & Engineers**
95 Perry Street, Buffalo, NY 14203

Analysis Requested:
198.1 x 198.6 x 198.4 x

Turnaround Requested:

3 Hr.	48 Hr.
6 Hr.	72 Hr.
12 Hr.	4 Day
24 Hr.	X 5 Day
	7 Day

Sample Number	Material Description	HA	Sample Location	Laboratory Results PLM	Laboratory Results TEM
230260-37	Paper, foil and black tar sealant on fiberglass pipe TSI	14	First floor Lobby 168 pipes above suspended ceiling tiles		
230260-38	Paper, foil and black tar sealant on fiberglass pipe TSI	14	First floor Room 109 on pipes above suspended ceiling by door to corridor		
230260-39	Mud packing on roof drain elbow above suspended ceiling	15	Second floor corridor in front of Room 224 roof drain above suspended ceiling tiles		
230260-40	Mud packing on roof drain elbow above suspended ceiling	15	Second floor corridor in front of Room 224 roof drain above suspended ceiling tiles		
230260-41	Mud packing on roof drain elbow above suspended ceiling	15	Second floor corridor in front of Room 224 roof drain above suspended ceiling tiles		
230260-42	Mud joint packing on pipe fittings above suspended ceiling	16	First floor office Room 109 lobby by corridor 2 mudded elbows above ceiling		
230260-43	Mud joint packing on pipe fittings above suspended ceiling	16	First floor office Room 109 lobby by corridor 2 mudded elbows above ceiling		
230260-44	Mud joint packing on pipe fittings above suspended ceiling	16	First floor office Room 109 lobby by corridor 2 mudded elbows above ceiling		

Sampled By: Edward J. Jones **Date:** 08/17/23 **Received By:** _____ **Date:** _____
Relinquished By: Edward J. Jones **Date:** 08/18/23 16:30 **Received By:** _____ **Date:** _____

Comments: If PLM NOB is negative, analyze by TEM. Stop at first positive for each homogeneous material description group.
If Vermiculite is detected , cease analysis and contact the Watts Project Manager for further instructions.

Received
AUG 21 2023

3.0 – LEAD-BASED PAINT

3.0 LEAD BASED PAINT

Methodology

Painted building components were grouped by testing combinations. A testing combination is characterized by location, component type, substrate, and visible color. Refer to section 3.2 for a complete listing of all XRF readings that were taken for this project. Each XRF reading is identified by the side of the building it was collected from (North, East, South or West), the component analyzed, the substrate and the paint color of the visible paint film.

The LBP survey was performed using the Department of Housing and Urban Development (HUD) protocol. Certain aspects of the HUD guidelines are typically applied to public and commercial buildings, most commonly the levels used to establish LBP. HUD defines LBP, when analyzed by a portable XRF, as paint that contains lead at 1.0 milligram per square centimeter or greater. When paint chips are analyzed by Atomic Absorption Spectroscopy (AAS), HUD defines LBP as paint containing 0.5 percent or greater (>0.5%) lead by weight.

For the purposes of this project, the Lead Renovation, Repair and Painting Rule 40 CFR 745 Subpart E and the Occupational Safety & Health Administration's (OSHA) Lead in Construction Standard (29 CFR 1926.62) applies.

All contractors are to be responsible for conducting all work in accordance with applicable federal, state, and local requirements, including OSHA 29 CFR 1926.62: Lead exposure in construction: Interim final rule for all activities during which an employee may be occupationally exposed to lead. All contractors shall ensure that their employees wear proper personal protective equipment and/or utilize appropriate work methods to prevent elevated blood lead levels or exposure above the permissible exposure limit. Disposal of generated paint chips shall be in compliance with all applicable federal and state regulations regarding lead.

All contractors are responsible for complying with the US EPA's Lead Renovation, Repair and Painting Rule (RRP rule). Use of heat guns shall be limited to a temperature less than 1,000 ^{o} F as not to generate lead fumes. Use of chemical stripping agents is not allowed at this facility unless specifically authorized and approved by the facility management and the Owners' environmental representative.

29 CFR 1926.62 applies to all construction work where an employee may be occupationally exposed to lead. Construction work is defined as work for construction, alteration and/or repair, including painting and decorating. It includes but is not limited to the following:

- Demolition or salvage of structures where lead or materials containing lead are present;
- Removal or encapsulation of materials containing lead;
- New construction, alteration, repair, or renovation of structures, substrates, or portions thereof, that contain lead, or materials containing lead;
- Installation of products containing lead;

- Lead contamination/emergency cleanup;
- Transportation, disposal, storage, or containment of lead or materials containing lead on the site or location at which construction activities are performed; and
- Maintenance operations associated with the construction activities.

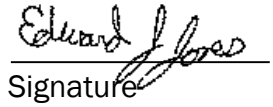
XRF Calibration

In order to field verify the calibration and accuracy of the XRF equipment; "calibration checks" are made both by the equipment itself and by the operator. Before the XRF will allow any testing for lead-based paint, it requires a "standardization" reading. This is accomplished by placing the standardization clip over the end of the XRF when prompted by the XRF. Upon the completion of the standardization reading, the XRF will display a Pass or Fail result. If the standardization is successful, the operator checks the calibration of the XRF against National Institute of Standards and Technology (NIST) lead samples that were provided by the manufacturer. The operator's calibration checks are taken at the beginning and the end of the testing period, and approximately every four hours, if necessary. The calibration checks are acceptable if the average of the three readings is between 1.0 and 1.1 mg/cm^2 (utilizing the error correction factor). Standardization and calibration readings were within the acceptable limits for the readings collected for this project. A table presenting XRF readings and results is included in the following subsection.

This report is based primarily on the results of visual site observations and a general survey of the surfaces that may be disturbed by the interior renovations to Kittinger Hall at the Erie County Community College north campus. Representative XRF readings were taken from each distinct type of building component within project limit to determine if those components were covered with lead-based paint. A full building survey for lead-based paint was not conducted.

The lead-based paint survey was performed by Watts on August 17, 2023.

Edward J. Jones
Lead Inspector



Signature

LPP-R-128144-2
Certification Number

Facility Address:	Erie County Community College north campus 5205 Main Street, Williamsville, NY
Approximate Date(s) of Construction:	Kittinger Hall (K Building): 1968

3.1 – X-RAY FLUORESCENCE ANALYZER (XRF) LEAD DATA TABLE

XRF READINGS
KITTINGER HALL INTERIOR RENOVATIONS
ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
WILLIAMSVILLE, NY

Testing Dates: August 17 29, 2022 **Viken pb200i S/N 2900**

Reading	Room	Side	Component	Substrate	Color	Condition	Floor	Results (mg/cm^2)
1	Calibration							1
2	Calibration							1
3	Calibration							0.9
4	Calibration Blank							0.1
5	Calibration Blank							0
6	Calibration Blank							0.1
7	Corridor at Room 125	East	Wall	Ceramic Tile	Blue	Intact	First	0
8	Corridor at Room 126	West	Wall	Ceramic Tile	Blue	Intact	First	0
9	Corridor at Room 127	East	Wall	Drywall	Beige	Intact	First	0.1
10	Corridor at Room 127	East	Wood Trim at Wall	Wood	Beige	Intact	First	0.1
11	Corridor at Room 127	East	Wall	ceramic Tile	Blue	Intact	First	0.1
12	Corridor at Room 128	East	Wall	Drywall	Beige	Intact	First	0.1
13	Corridor at Room 128	East	Wall	Ceramic Tile	Blue	Intact	First	0.2
14	Corridor at Room 128	East	Wood Trim at Wall	Wood	Beige	Intact	First	0
15	Corridor at Room 128	East	Upper Wall	Plaster	Beige	Intact	First	0.1
16	Corridor at Room 125	East	Upper Wall	Plaster	Beige	Intact	First	0
17	Corridor at Room 124	West	Upper Wall	Plaster	Beige	Intact	First	0.1
18	Corridor at Room124	South	Corridor Storefront Double Doors	Steel	Silver	Intact	First	0.2
19	Corridor at Room124	South	Storefront Windows	Steel	Silver	Intact	First	0.3
20	Room 125	East	Door Frame	Steel	Light Brown	Deteriorated	First	0.4
21	Room 125	East	Door	Wood	Varnish	Intact	First	0
22	Room 125	West	Wall	CMU	Beige	Intact	First	0
23	Room 125	West	Vent Soffit Above Door	Plaster	Beige	Intact	First	0
24	Room 125	N/A	Soffit Vent Grill	Steel	Beige	Intact	First	0.2
25	Room 125	N/A	Ceiling Grid	Metal	Light Brown	Intact	First	0.1
26	**Room 125**	**South**	**Steel Beam**	**Steel**	**Black**	**Intact**	**First**	**2.6**

XRF READINGS
KITTINGER HALL INTERIOR RENOVATIONS
ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
WILLIAMSVILLE, NY

Testing Dates: August 17 29, 2022 **Viken pb200i S/N 2900**

Reading	Room	Side	Component	Substrate	Color	Condition	Floor	Results (mg/cm^2)
27	Room 125	N/A	Steel Girder	Steel	Red	Intact	First	0.1
28	Lobby 168 to Lounge 123	North	Storefront Windows	Steel	Silver	Intact	First	0.4
29	Lobby 168 to Lounge 123	North	Window Panel	Metal	White	Intact	First	0.1
30	Corridor at Room 136	South	Wall	Ceramic Tile	Blue	Intact	First	0
31	Corridor at Room 136	South	Door Frame	Steel	Light Brown	Deteriorated	First	0.5
32	Corridor at Room 136	South	Door	Wood	Varnish	Intact	First	0
33	Room 136	East	Wall	CMU	Yellow	Intact	First	0.2
34	Room 136	N/A	Vent Soffit Above Door	Plaster	Yellow	Intact	First	0
35	Room 136	N/A	Soffit Vent Grill	Steel	Beige	Intact	First	0.2
36	Room 136	N/A	Ceiling Grid	Steel	Beige	Intact	First	0.2
37	**Room 136**	**N/A**	**Steel Beam**	**Steel**	**Black**	**Intact**	**First**	**3.1**
38	Room 136	N/A	Steel Girder	Steel	Red	Intact	First	0.2
39	Corridor at Former Lockers	East	Wall	Wood	Beige	Intact	First	0.1
40	Corridor at Room 237	East	Wall	ceramic Tile	Blue	Intact	Second	0.2
41	Corridor at Room 237	East	Wall at Former Lockers	Wood	Beige	Intact	Second	0.1
42	Corridor at Room 237	East	Upper Wall	Plaster	Beige	Intact	Second	0.1
43	Room 237	East	Door Frame	Steel	Beige	Deteriorated	Second	0.3
44	Room 237	East	Door	Wood	Varnish	Intact	Second	0
45	Room 237	West	Wall	CMU	Blue	Intact	Second	0
46	Room 237	West	Vent Soffit Above Door	Plaster	Blue	Intact	Second	0
47	Room 237	N/A	Soffit Vent Grill	Steel	Blue	Intact	Second	0.3
48	Room 237	N/A	Ceiling Grid	Steel	Beige	Intact	Second	0.2
49	**Room 237**	**South**	**Steel Beam**	**Steel**	**Black**	**Intact**	**Second**	**4.1**

XRF READINGS
KITTINGER HALL INTERIOR RENOVATIONS
ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
WILLIAMSVILLE, NY

Testing Dates: August 17 29, 2022 **Viken pb200i S/N 2900**

Reading	Room	Side	Component	Substrate	Color	Condition	Floor	Results (mg/cm^2)
50	Room 237	N/A	Steel Girder	Steel	Red	Intact	Second	0.2
51	Room 234	East	Vent Soffit	Plaster	White	Intact	Second	0.1
52	Room 234	N/A	Soffit Vent Grill	Steel	White	Intact	Second	0.3
53	Room 234	N/A	Ceiling Grid	Steel	Beige	Intact	Second	0
54	**Room 234**	**East**	**Steel Beam Above Door**	**Steel**	**Black**	**Intact**	**Second**	**2.6**
55	Room 234	N/A	Ceiling Girder	Steel	Red	Intact	Second	0.1
56	Corridor at Room 234	West	Wall	Ceramic Tile	Blue	Intact	Second	0.1
57	Corridor at Room 234	West	Door Frame	Steel	Light Brown	Deteriorated	Second	0.4
58	Corridor at Room 234	West	Door	Wood	Varnish	Intact	Second	0
59	Corridor at Room 234	West	Wall at Former Locker	Wood	Beige	Intact	Second	0.1
60	Corridor at Room 234	West	Upper Wall	Plaster	Beige	Intact	Second	0
61	Corridor at Room234	South	Ceiling Duct into Roof	Steel	Brown	Intact	Second	0.1
62	Calibration							1.2
63	Calibration							1.1
64	Calibration							1.1
65	Calibration Blank							0
66	Calibration Blank							0
67	Calibration Blank							0

Bold **Exceeds 1.0 mg/cm^2**

N/A No Specific Direction Applicable

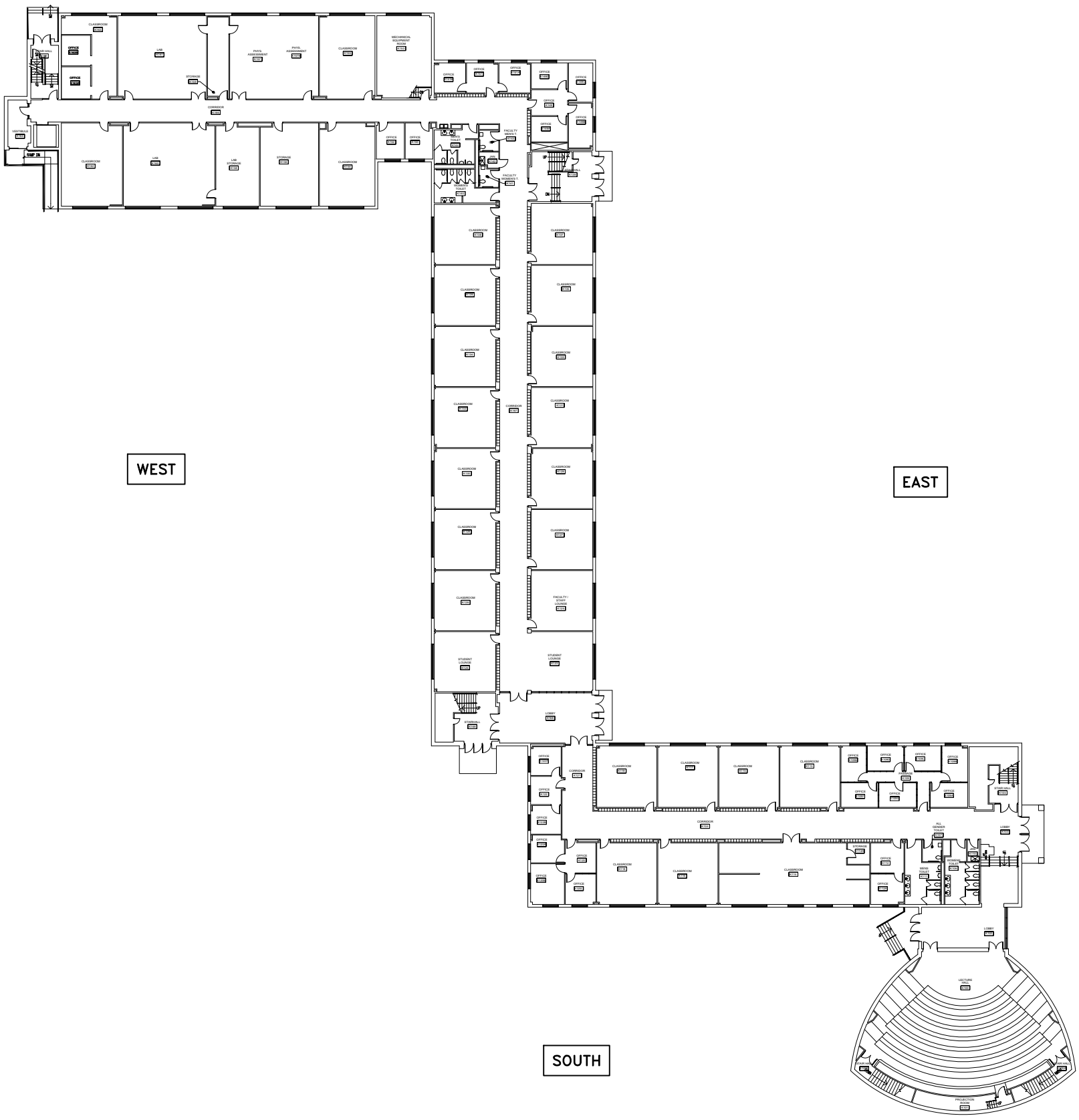
CMU Concrete Masonry Unit Block Wall

3.2 –XRF REFERENCE DRAWINGS

NORTH

WEST

EAST



SOUTH

FIRST FLOOR PLAN

XRF TESTING WAS CONDUCTED ON AUGUST 17, 2023.

XRF LEAD-BASED PAINT REFERENCE DRAWING
KITTINGER HALL BUILDING K
FIRST FLOOR PLAN

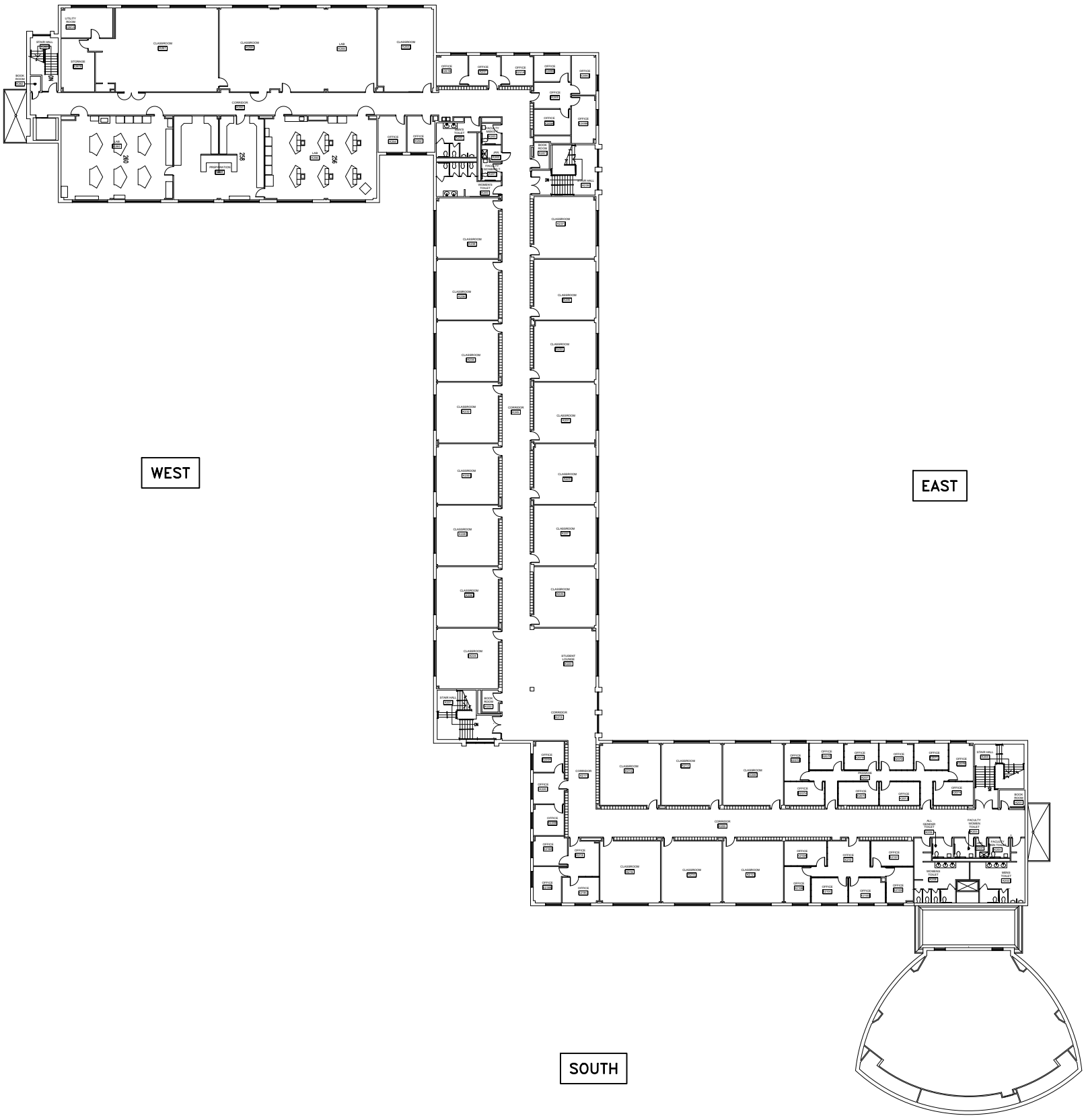
Watts Architects &Engineers
95 Perry Street, Suite 300
Buffalo, NY 14203

ECC NORTH CAMPUS
WILLIAMSVILLE, NEW YORK

NOT TO SCALE | SEPTEMBER 2023

NORTH

WEST



EAST

SOUTH

SECOND FLOOR PLAN

XRF TESTING WAS CONDUCTED ON AUGUST 17, 2023.

XRF LEAD-BASED PAINT REFERENCE DRAWING
KITTINGER HALL BUILDING K
SECOND FLOOR PLAN

Watts Architects &Engineers
95 Perry Street, Suite 300
Buffalo, NY 14203

ECC NORTH CAMPUS
WILLIAMSVILLE, NEW YORK

NOT TO SCALE | SEPTEMBER 2023

4.0 - POLYCHLORINATED BIPHENYLS IN CAULK/SEALANTS

4.0 POLYCHLORINATED BIPHENYLS (PCBs) IN CAULKS

Sampling and Laboratory Methodology

The Environmental Protection Agency (EPA) regulates PCBs and considers any debris generated from construction materials manufactured with PCBs derived from building renovation projects with a concentration of greater than or equal to 50 parts per million (ppm) as PCB bulk product waste. The Toxic Substances Control Act (TSCA) regulations (40 CFR Part 761) prescribes requirements for the proper management of PCB materials, including their handling and disposal. PCB bulk product waste at concentrations ≥50 ppm must follow specific storage, transport and disposal requirements.

Watts collected samples of suspect PCB caulk/sealant within project limits for PCB laboratory analysis. The samples were analyzed by Schneider Laboratories in Richmond, Virginia. Schneider Laboratories is a New York State Department of Health (NYSDOH) approved laboratory and participant in the National Voluntary Laboratory Approval Program (NVLAP). The samples were analyzed using USEPA SW-846 Method 8082A, PCBs. The following table identifies all suspect materials identified, their corresponding sample numbers, and individual PCB Aroclor analytical results:

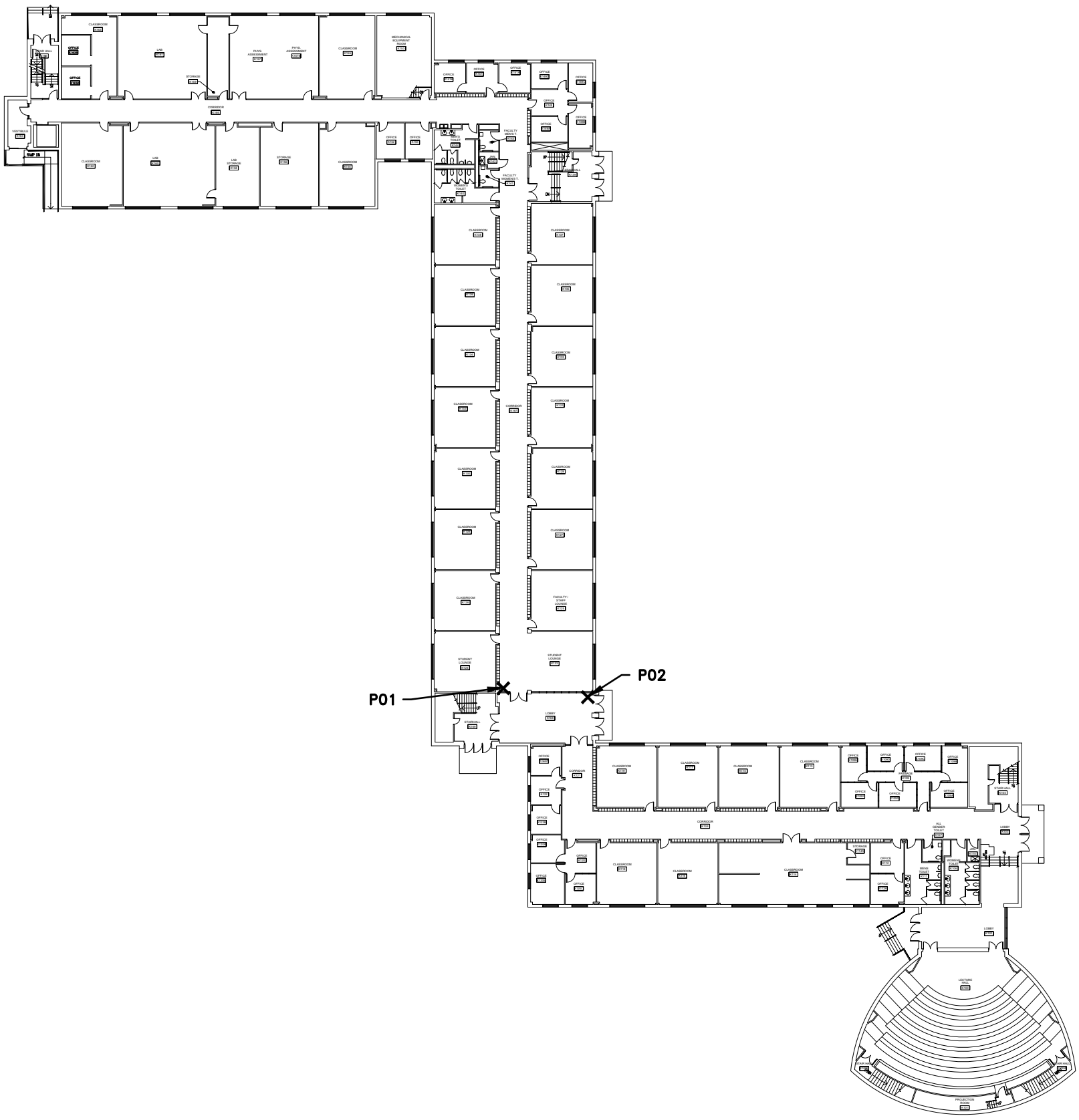
TABLE 4.1
POLYCHLORINATED BIPHENYLS (PCBs)
KITTINGER HALL (K BUILDING) INTERIOR RENOVATIONS PROJECT
ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
6205 MAIN STREET, WILLIAMSVILLE, NY

PCB Concentration (mg/kg or ppm)										
Sample Number	Aroclor 1016	Aroclor 1221	Aroclor 1232	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1262	Aroclor 1268	Sample Description
P01	ND	ND	ND	ND	ND	ND	ND	ND	ND	Interior Caulk Perimeter of Corridor Storefront Style Double Doors First Floor Corridor by Room 124
P02	ND	ND	ND	ND	ND	ND	ND	ND	ND	Interior Storefront Window Frame Caulk on Window Frames for the Bank of Windows Abutting the Student Lounges First Floor Lobby 168

Samples prefixed 230260-

Abbreviations:
Bold - PCB > 50 ppm
ND = None Detected
mg/kg = milligram per kilogram
ppm = parts per million

4.1 – PCB SAMPLE LOCATION DRAWING



FIRST FLOOR PLAN

ALL SAMPLES ARE PREFIXED BY **230260–**
SAMPLES WERE COLLECTED ON AUGUST 17, 2023.

✕ INDICATES APPROXIMATE SAMPLE LOCATION
✕ SAMPLE NUMBERS IN RED WERE IDENTIFIED TO PCB CONTAINING.

Watts Architects &Engineers
95 Perry Street, Suite 300
Buffalo, NY 14203

PCB CAULK/SEALANT SAMPLE LOCATIONS
KITTINGER HALL BUILDING K
FIRST FLOOR PLAN

ECC NORTH CAMPUS
WILLIAMSVILLE, NEW YORK

NOT TO SCALE | SEPTEMBER 2023

R:\2023\20230260 SUNY Erie North Camp\18. CADD\Env\20230260_SL–BUILDING K–.dwg Sep 05, 2023, 4:57pm

4.2 – PCB LABORATORY REPORT AND CHAIN-OF-CUSTODY FORMS

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street Richmond, Virginia 23220-5117
804-353-6778 800-785-LABS (5227) Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: ECC Kittinger Hall Interior
Location: ECC N Campus K Building
Number: 20230260

Order #: 529166

Matrix Bulk
Received 08/21/23
Reported 08/23/23

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID	Location / Method	Result	RL*	Units	Analysis Date	Analyst
529166-001	230260-P01	Interior Caulk Corridor					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A	**<474**	473	g/kg	08/22/23	KM
Aroclor - 1221		SW846 8082A	**<474**	473	g/kg	08/22/23	KM
Aroclor - 1232		SW846 8082A	**<474**	473	g/kg	08/22/23	KM
Aroclor - 1242		SW846 8082A	**<474**	473	g/kg	08/22/23	KM
Aroclor - 1248		SW846 8082A	**<474**	473	g/kg	08/22/23	KM
Aroclor - 1254		SW846 8082A	**<474**	473	g/kg	08/22/23	KM
Aroclor - 1260		SW846 8082A	**<474**	473	g/kg	08/22/23	KM
Aroclor - 1262		SW846 8082A	**<474**	473	g/kg	08/22/23	KM
Aroclor - 1268		SW846 8082A	**<474**	473	g/kg	08/22/23	KM
529166-002	230260-P02	Interior Store Front Wind					
Semi-volatile Organic Compounds							
Aroclor - 1016		SW846 8082A	**<456**	456	g/kg	08/22/23	KM
Aroclor - 1221		SW846 8082A	**<456**	456	g/kg	08/22/23	KM
Aroclor - 1232		SW846 8082A	**<456**	456	g/kg	08/22/23	KM
Aroclor - 1242		SW846 8082A	**<456**	456	g/kg	08/22/23	KM
Aroclor - 1248		SW846 8082A	**<456**	456	g/kg	08/22/23	KM
Aroclor - 1254		SW846 8082A	**<456**	456	g/kg	08/22/23	KM
Aroclor - 1260		SW846 8082A	**<456**	456	g/kg	08/22/23	KM
Aroclor - 1262		SW846 8082A	**<456**	456	g/kg	08/22/23	KM
Aroclor - 1268		SW846 8082A	**<456**	456	g/kg	08/22/23	KM

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg PPB = g/kg and Water PPM = mg/L PPB = g/L. The test results apply to the sample as received.

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street Richmond, Virginia 23220-5117
804-353-6778 800-785-LABS (5227) Fax 804-359-1475

Customer: Watts Architecture & Engineering (4637)
Address: 95 Perry Street Suite 300
Buffalo, NY 14203

Attn:

Project: ECC Kittinger Hall Interior
Location: ECC N Campus K Building
Number: 20230260

Order #: 529166

Matrix Bulk
Received 08/21/23
Reported 08/23/23

PO Number: 7628

Sample ID / Parameter	Cust. Sample ID / Method	Result	RL*	Units	Analysis Date	Analyst
529166-08/23/23 12:15 PM						

Reviewed By: **Kelly Muncy**
Manager

Surrogate Recoveries

529166-001 - PCB	
DCB	MI
TCMX	89%
529166-002 - PCB	
DCB	MI
TCMX	81%

State Certifications

Method	Parameter	New York	Virginia
SW846 8082A	Aroclor - 1016	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1221	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1232	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1242	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1248	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1254	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1260	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1262	ELAP Certified	VELAP Certified
SW846 8082A	Aroclor - 1268	ELAP Certified	VELAP Certified

State	Certificate Number
New York	ELAP 66375
Virginia	VELAP 12299

All internal QC parameters were met. Unusual sample conditions, if any, are described. Surrogate Spike results designated with "D" indicate that the analyte was diluted out. "MI" indicates matrix interference. Concentration and Reporting Limit (RL) based on areas provided by client. Values are reported to three significant figures. Solid PPM = mg/kg PPB = g/kg and Water PPM = mg/L PPB = g/L. The test results apply to the sample as received.

R 2

SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com e-mail: info@slabinc.com

529166
V:\529\529166
aelnasseh 8/21/2023 9:55:15 AM
UPS 1Z2E28999070483075

Submitting Co.	Watts Architecture and Engineering	Lab WO#		Phone	(716) 206-5100
95 Perry Street, Suite 300		Acct #	4637	Fax	(716) 206-5199
Buffalo, NY 14203		State of Collection	NY	E-Mail	ejones@watts-ae.com

Project Name:	ECC Kittinger Hall Interior Renovations
Project Location:	ECC North Campus K Building, Williamsville, N Y
Project Number:	20230260
Purchase Order #	20230260
TAT Requested	(Business Day) ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☒ 5 ☐ 10 ☐ Other: _____

Special Instructions [include requests for special reporting or data packages]

Minimum detection of 50 PPM requried

e-mail results to: ejones@watts-ae.com

Analysis Request — Other

Sample #	Date Sampled	Time Sampled	# Containers	Composite	Grab	Matrix: Drinking Water	Waste Water	Ground Water	Soil / Sludge	Air	Wipe	Oil	Solid	BTEX 602 ☐ MTBE ☐ Naphthalene ☐	Purgeable Aromatics 8021 ☐	Petrol Hydrocarbons GC 8015M Diesel ☐ 8015M Gas ☐	TPH 418.1 ☐	Corrosivity ☐ Reactivity ☐ Flashpoint, Closed Cup ☐	Volatile Organics 624 ☐ 8260 ☐	Semivolatile Organics 625 ☐ 8270 ☐	PAHs 610 ☐ 8270 ☐ 8310 By HPLC ☐	TCLP Semi-Vols ☐ BNAs ☐ Pest ☐ Herb ☐ VOAs ☐ Full ☐	Pesticides 608 ☐ 8081 ☐ Herbicides 8151 ☐ PCB's 8082 ☒	Other
230260-P01	08/17/23	10:00	1		X								X										X	
Interior Caulk Corridor Double Doors																								
1st Floor Corridor		7'x7'	Edges																					
By Room 124																								
230260-P02	08/17/23	11:00	1		X								X										X	
Interior Storefront Window Frame Caulk																								
1st Floor Lobby to Student Lounge	K168																							
5'x5' Edges																								

Sampled by
NAME Edward J. Jones
SIGNATURE Edward J Jones
DATE/TIME 08/17/23

Relinquished to lab by
NAME Edward J. Jones
SIGNATURE Edward J Jones
DATE/TIME 08/17/23 17:00

Preserved ☒ Yes ☐ No ☐ Ambient temp ☐ Ice °C ___ pH ___ Cl ___ ☐R ☐S ☐X

☐ Receive a physical copy of report.

Sample Disposal
If samples over req. weight (Refer to Fee Schedule)
☐ Return to Sender (Shipping fees)
☒ Disposal by lab ($50 fee)

Shipping Methods
☐ FX ☒ UPS ☐ USM
☐ HD ☐ DB
WB: _____

Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.

5.0 – LABORATORY ACCREDITATIONS

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2024
Issued April 01, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. CORY M. PARNELL
AMERISCI RICHMOND
13635 GENITO RD
MIDLOTHIAN, VA 23112

NY Lab Id No: 10984

is hereby APPROVED as an Environmental Laboratory for the category
ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved subcategories and/or analytes are listed below:

Miscellaneous

Asbestos in Friable Material	Item 198.1 of Manual
	EPA 600/M4/82/020
Asbestos in Non-Friable Material-PLM	Item 198.6 of Manual (NOB by PLM)
Asbestos in Non-Friable Material-TEM	Item 198.4 of Manual
Asbestos-Vermiculite-Containing Mate	Item 198.8 of Manual

Serial No.: 67588

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

AmeriSci Richmond
dba AmeriSci Richmond
13635 Genito Road
Midlothian, VA 23112
Cory M. Parnell
Phone: 804-763-1200
Email: cparnell@amerisci.com
http://www.amerisci.com

ASBESTOS FIBER ANALYSIS — NVLAP LAB CODE 101904-0

Bulk Asbestos Analysis

Code	*Description*
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

Airborne Asbestos Analysis

Code	*Description*
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.

For the National Voluntary Laboratory Accreditation Program

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2024
Issued April 01, 2022
Revised March 30, 2023

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. FAYEZ ABOUZAKI
SCHNEIDER LABORATORIES GLOBAL, INC
2512 WEST CARY STREET
RICHMOND, VA 23220-5117

NY Lab Id No: 11413

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Metals III	
Cobalt, Total	EPA 6010D
Molybdenum, Total	EPA 6010D
Thallium, Total	EPA 6010D
Tin, Total	EPA 6010D
Titanium, Total	EPA 6010D
Miscellaneous	
Boron, Total	EPA 6010D
Polychlorinated Biphenyls	
Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
Sample Preparation Methods	
	EPA 3010A
	EPA 3050B
	EPA 3550C

Serial No.: 66375

6.0– CONSULTANT'S LICENSE AND CERTIFICATION

New York State – Department of Labor
Division of Safety and Health
License and Certificate Unit
State Campus, Building 12
Albany, NY 12240

ASBESTOS HANDLING LICENSE

Watts Architecture & Engineering, D.P.C.
Suite 300
95 Perry Street

Buffalo, NY 14203

FILE NUMBER: 12-60007
LICENSE NUMBER: 68007
LICENSE CLASS: RESTRICTED
DATE OF ISSUE: 09/01/2022
EXPIRATION DATE: 09/30/2025

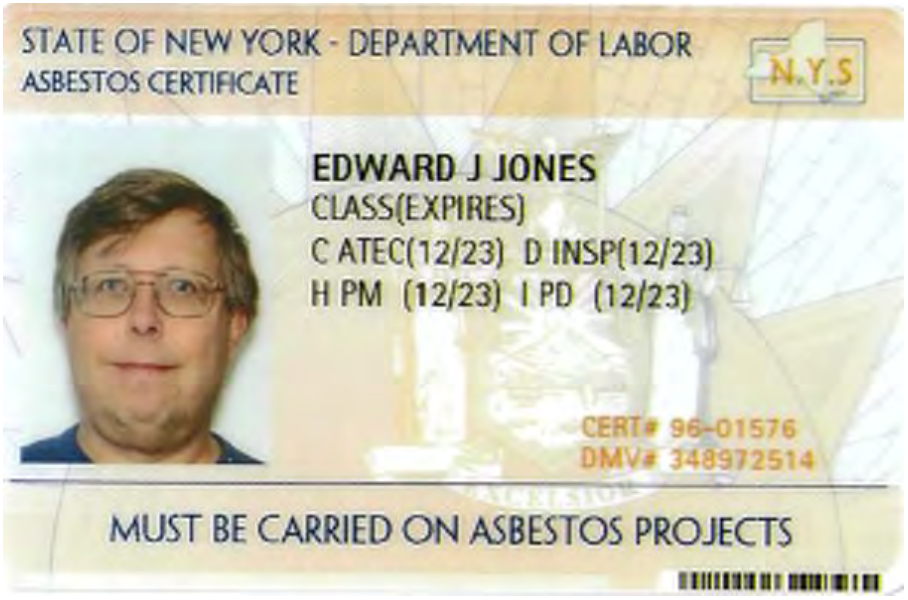
Duly Authorized Representative – Kevin Janik

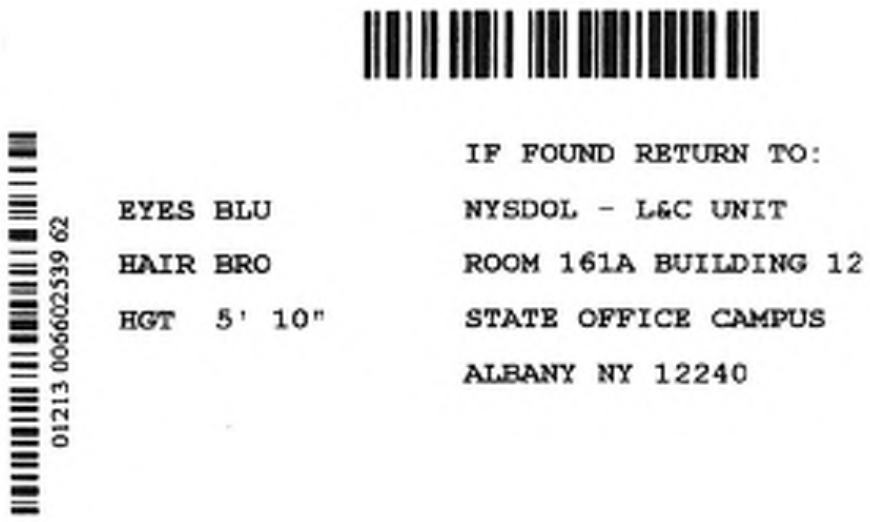
This license has been issued in accordance with applicable provisions of Article 30 of the Labor Law of New York State and of the New York State Codes, Rules and Regulations (12 NYCRR Part 56). It is subject to suspension or revocation for a (1) serious violation of state, federal or local laws with regard to the conduct of an asbestos project, or (2) demonstrated lack of responsibility in the conduct of any job involving asbestos or asbestos material.

This license is valid only for the contractor named above and this license or a photocopy must be prominently displayed at the asbestos project worksite. This license verifies that all persons employed by the licensee on an asbestos project in New York State have been issued an Asbestos Certificate, appropriate for the type of work they perform, by the New York State Department of Labor.

Amy Philips, Director
For the Commissioner of Labor

SH 432 (8/12)





Edward Jones

C – Air Sampling Technician
D – Inspector
H – Project Monitor
I – Project Designer

Watts Architects &Engineers

95 Perry Street
Suite 300
Buffalo, NY 14203

120 East Washington Street
Suite 414
Syracuse, NY 13202

325 Gold Street
Suite 701
Brooklyn, NY 11201

United States Environmental Protection Agency

This is to certify that

Watts Architecture & Engineering

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires May 21, 2024

LBP-1952-2
Certification #

March 17, 2021
Issued On

Michelle Price, Chief
Lead, Heavy Metals, and Inorganics Branch

Watts Architects &Engineers

95 Perry Street
Suite 300
Buffalo, NY 14203

120 East Washington Street
Suite 414
Syracuse, NY 13202

325 Gold Street
Suite 701
Brooklyn, NY 11201

United States Environmental Protection Agency

This is to certify that

Edward J Jones

has fulfilled the requirements of the Toxic Substances Control Act (TSCA) Section 402, and has received certification to conduct lead-based paint activities pursuant to 40 CFR Part 745.226 as:

Risk Assessor

In the Jurisdiction of:

All EPA Administered Lead-based Paint Activities Program States, Tribes and Territories

This certification is valid from the date of issuance and expires January 02, 2025

LBP-R-128144-2
Certification #

December 02, 2021
Issued On

Ben Conetta, Chief
Chemicals and Multimedia Programs Branch

7.0– PRIOR ENVIRONMENTAL SURVEY REPORTS

DRAFT PRE-RENOVATION SURVEY

FOR THE

ASBESTOS-CONTAINING MATERIALS, LEAD-BASED PAINT, POLYCHLORINATED BIPHENYLS IN CAULK/SEALANTS, UNIVERSAL WASTE AND MISCELLANEOUS HAZARDOUS MATERIALS

FOR THE

KITTINGER HALL
MECHANICAL RENOVATIONS PROJECT

AT THE

ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
6205 MAIN STREET, WILLIAMSVILLE, NEW YORK

KITTINGER HALL
MARCH 29, 2023

PREPARED FOR

IBC Engineering, P.C.
3445 Winton Place, Suite 219
Rochester, NY

FOR SUBMISSION TO

Erie County Department of Public Works
Rath Building
95 Franklin Street
Buffalo, NY

Watts Architects &Engineers

BUFFALO ✓ ROCHESTER ✓ SYRACUSE ✓ NEW YORK

TABLE 2.1
HOMOGENEOUS MATERIALS LIST
KITTINGER HALL (BUILDING K) MECHANICAL RENOVATIONS PROJECT
ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
6205 MAIN STREET, WILLIAMSVILLE, NY

Homogeneous Area (HA)	Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)			ACM (Y/N)
					Friable PLM ELAP 198.1	NOB PLM ELAP 198.6	NOB TEM ELAP 198.4	
1	Gray Jacket on the Hot Water Holding Tank	Mechanical Room K153 Insulated Hot Water Holding Tank	M	21093K-01	0.3% Chrysotile	NA	NA	N
				21093K-02	0.5% Chrysotile	NA	NA	
2	**Hot Water Holding Tank Adhesive/Sealant behind Gray Jacket**	**Mechanical Room K153 Insulated Hot Water Holding Tank on Green Foam**	**M**	**21093K-03**	**NA**	**4.9% Chrysotile**	**1.1% Chrysotile**	**Y**
				21093K-04	**NA**	**NA/PS**	**NA/PS**	
3	Green Foam Insulation on the Hot Water Holding Tank	Mechanical Room K153 Insulated Hot Water Holding Tank Behind Gray Jacket	T	21093K-05	NAD	NA	NA	N
				21093K-06	NAD	NA	NA	
				21093K-07	NAD	NA	NA	
4	Mud Insulation on Tan Hot Water Pipe Fittings	Mechanical Room K153 Tan Water Line at West Wall at Hot Water Holding Tank	T	21093K-08	NAD	NA	NA	N
		Mechanical Room K153 Tan Water Lines Vertical Along the East Wall		21093K-09	NAD	NA	NA	
				21093K-10	NAD	NA	NA	
5	Tan Paper Jacket, Black Tar Dabs and Foil on Fiberglass TSI	Mechanical Room K153 Tan Water Lines at South Wall	M	21093K-11	NA	NAD	NAD	N
		Mechanical Room K153 Tan Water Line at West Wall at Hot Water Holding Tank		21093K-12	NA	NAD	NAD	
6	Gaskets in Hot Water Lines Mechanical Room K153	Mechanical Room K153 Hot Water Supply Valve along East Wall	M	21093K-13	NA	NAD	NAD	N
		Mechanical Room K153 Hot Water Return Valve along East Wall		21093K-14	NA	NAD	NAD	

TABLE 2.1
HOMOGENEOUS MATERIALS LIST
KITTINGER HALL (BUILDING K) MECHANICAL RENOVATIONS PROJECT
ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
6205 MAIN STREET, WILLIAMSVILLE, NY

Homogeneous Area (HA)	Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)			ACM (Y/N)
					Friable PLM ELAP 198.1	NOB PLM ELAP 198.6	NOB TEM ELAP 198.4	
7	Gray Jacket and Foil on Hot Water Supply and Return Lines Fiberglass TSI	Mechanical Room K153 Fiberglass Insulated Hot Water Supply Line East Wall	M	21093K-15	NAD	NA	NA	N
		Mechanical Room K153 Hot Water supply Line Above the Large Boiler		21093K-16	NAD	NA	NA	
8	Mud Insulation on Overhead Hot Water Supply and Return Lines	Mechanical Room K153 Hot Water Supply Line Elbow Above the Large Boiler	T	21093K-17 21093K-18 21093K-19	NAD NAD NAD	NA NA NA	NA NA NA	N
9	White End Sealant Fiberglass Insulation Hot Water Piping	Mechanical Room K153 Newer Insulation Hot Water Supply Pipe Above Large Boiler	M	21093K-20	NA	NAD	NAD	N
				21093K-21	NA	NAD	NAD	
10	White Fibrous Insulation on Small Boiler, Behind Sheet Metal Jacket	Mechanical Room K153 Small Boiler by the Hot Water Holding Tank	M	21093K-22	NAD	NA	NA	N
				21093K-23	NAD	NA	NA	
11	Yellow Fibrous Insulation on Large Boiler Behind Sheet Metal Jacket	Mechanical Room K153 Large Boiler	M	21093K-24	NAD	NA	NA	N
				21093K-25	NAD	NA	NA	
12	White Paper and Foil on Fiberglass, on New Piping at Large Boiler	Mechanical Room K153 Hot Water Supply Line New Section Above Large Boiler	M	21093K-26	NA	NAD	NAD	N
		Mechanical Room K153 Hot Water Return Line New Section Above Large Boiler		21093K-27	NA	NAD	NAD	
13	Gaskets on Piping at the Large Boiler	Mechanical Room K153 Cold Water Supply Line on Side of the Large Boiler	M	21093K-28	NA	NAD	NAD	N
				21093K-29	NA	NAD	NAD	
14	Gaskets in Red Valves and Pumps Above the Large Boiler	Mechanical Room K153 Red Valves and Pumps Above the Large Boiler	M	21093K-30	NA	NAD	NAD	N
				21093K-31	NA	NAD	NAD	

TABLE 2.1
HOMOGENEOUS MATERIALS LIST
KITTINGER HALL (BUILDING K) MECHANICAL RENOVATIONS PROJECT
ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
6205 MAIN STREET, WILLIAMSVILLE, NY

Homogeneous Area (HA)	Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)			ACM (Y/N)
					Friable PLM ELAP 198.1	NOB PLM ELAP 198.6	NOB TEM ELAP 198.4	
15	Mud Fittings on Fiberglass Piping K Building Basement	½" Diameter Line 1 Mud Elbow in Basement Adjacent to Mechanical Room K153	T	21093K-32	1.3% Chrysotile	NA	NA	Y
		½" Diameter Line 2 Mud Elbow in Basement Adjacent to Mechanical Room K153		21093K-33	NA/PS	NA	NA	
		1" Diameter Mud Elbow in Basement Adjacent to Mechanical Room K153		21093K-34	NA/PS	NA	NA	
16	Wood Laminate and Mastic on Top of 9" x 9" Floor Tiles	Room K152 on Top 9" Light Gray Floor Tiles	M	21093K-35	NA	NAD	NAD	N
		Room K235 on Top 9" Light Gray Floor Tiles		21093K-36	NA	NAD	NAD	
17	18" x 18" Gray Floor Tiles on Top of 9" Light Gray Floor Tiles	Room K158 on Top of 9" Light Gray Floor Tiles	M	21093K-37	NA	NAD	NAD	N
				21093K-38	NA	NAD	NAD	
18	Tan Adhesive Beneath 18" Gray Floor Tiles and on Top 9" Floor Tiles	Room K158 on Top of 9" Light Gray Floor Tiles	M	21093K-39	NA	NAD	NAD	N
				21093K-40	NA	NAD	NAD	
19	2' x 4' Suspended Ceiling Tiles Pinhole and Small Fissure Pattern	Room 258 Suspended Ceiling	M	21093K-41	NA	NAD	NAD	N
		Room 256 Suspended Ceiling		21093K-42	NA	NAD	NAD	
20	2' x 2' Suspended Ceiling Tiles with Small Round Holes Pattern	Room 236 Suspended Ceiling	M	21093K-43	NA	NAD	NAD	N
		Room 231 Suspended Ceiling		21093K-44	NA	NAD	NAD	

TABLE 2.1
HOMOGENEOUS MATERIALS LIST
KITTINGER HALL (BUILDING K) MECHANICAL RENOVATIONS PROJECT
ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
6205 MAIN STREET, WILLIAMSVILLE, NY

Homogeneous Area (HA)	Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)			ACM (Y/N)
					Friable PLM ELAP 198.1	NOB PLM ELAP 198.6	NOB TEM ELAP 198.4	
21	2' x 2' Suspended Ceiling Tiles Pinhole and Small Slot Pattern	Second Floor Corridor at Room 230	M	21093K-45	NA	NAD	NAD	N
		First Floor Corridor at Room 152		21093K-46	NA	NAD	NAD	
22	12" x 12" Light Green Floor Tile on Concrete	Room 256	M	21093K-47	NA	NAD	NAD	N
				21093K-48	NA	NAD	NAD	
23	Leveling Compound and Residual Black Mastic Beneath 12" Light Green Floor Tiles	Room 256 on Concrete	M	21093K-49	NA	0.8% Chrysotile	Trace Chrysotile	N
				21093K-50	NA	0.4% Chrysotile	Trace Chrysotile	
24	Caulk Along Exterior Louvers to Vent Ventilators	Exterior of Room 113 Perimeter of Exterior Louver	M	21093K-51	NA	NAD	NAD	N
		Exterior of Room 114 Perimeter of Exterior Louver		21093K-52	NA	NAD	NAD	
25	½" Black Tar and Fabric Vapor Barrier Beneath 2 ½" Poly Iso. Foam Insulation	Roof Core 1 Northeast Area North of Access Hatch by EDPM Patch	M	21093K-53L1	NA	NAD	NAD	N
		Roof Core 2 West Roof Area at EDPM Patch Field		21093K-54	NA	NAD	NAD	
25A	Fabric Vapor Barrier Beneath 2 ½" Poly Iso. Foam Insulation	Roof Core 1 Northeast Area North of Access Hatch by EDPM Patch	M	21093K-53L2	NAD	NA	NA	NA
26	Soft Concrete Roof Deck Beneath Black Tar and Fabric Vapor Barrier	Roof Core 1 Northeast Area North of Access Hatch by EDPM Patch	M	21093K-55	NAD	NA	NA	N
		Roof Core 2 West Roof Area at EPDM Patch Field		21093K-56	NAD	NA	NA	

TABLE 2.1
HOMOGENEOUS MATERIALS LIST
KITTINGER HALL (BUILDING K) MECHANICAL RENOVATIONS PROJECT
ERIE COUNTY COMMUNITY COLLEGE NORTH CAMPUS
6205 MAIN STREET, WILLIAMSVILLE, NY

Homogeneous Area (HA)	Material Description	Sample Location	Type	Sample Number	Results (% Asbestos)			ACM (Y/N)
					Friable PLM ELAP 198.1	NOB PLM ELAP 198.6	NOB TEM ELAP 198.4	
27	**Black Tar Patches on Base of Exhaust Fans**	**South Roof Wing Southeast Area Ex Fan 1**	**M**	**21093K-57**	**NA**	**3.8% Chrysotile**	**NA**	**Y**
		West Roof West End Base of Ex Fan 14		**21093K-58**	**NA**	**NA/PS**	**NA**	
28	Black Tar Patches on Base of Vents and AHU Units	South Roof Center Area New Round Vent Above PVC Roof Membrane	M	21093K-59	NA	NAD	NA	N
		North Roof Center Valent AHU Curb t Sheet Metal Duct		21093K-60	NA	NAD	NA	
29	Black Tar Sealant Edges of Silver Foil Jackets on Foam Insulation to Ducts	West Roof West End Sheet Metal Ducts at Trane AC 4	M	21093K-61	NA	NAD	NAD	N
		West Roof West End Sheet Metal Ducts to Trane AC 3		21093K-62	NA	NAD	NAD	
		North Roof Center Sheet Metal Ducts at Valent AHU		21093K-63	NA	NAD	NAD	

Abbreviations:

Type
T = Thermal System Insulation
S = Surfacing
M = Miscellaneous

ACM
Y = Yes
N = No

NA – Not analyzed
NAD – No asbestos detected
HM - Homogeneous Area Material Number
ACM – Asbestos Containing Material greater than 1% asbestos
Trace – Less than 1% asbestos
PLM – Polarized Light Microscopy
Friable – Able to be easily pulverized by hand pressure
TEM – Transmission Electron Microscopy
NOB – Non Friable Organically Bound

Bold rows identify asbestos-containing materials

2.3 – LABORATORY REPORT & CHAIN-OF-CUSTODY FORMS

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Watts Architecture & Engineers
Attn: Ed Jones
95 Perry Street
Suite 300
Buffalo, NY 14203

Date Received 10/05/22
Date Examined 10/18/22
ELAP # 10984
AmeriSci Job # 122101148
P.O. #
Page 1 **of** 14
RE: 21093; ECC North Campus Mechanical Renovation; K Building ECC North, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21093K-01	122101148-01	***Yes***	0.3%
1	**Location:** Gray Jacket On The Hot Water Holding Tank; Mechanical Room K153 Insulated Hot Water Holding Tank		(EPA 600/M4-82-020) by Eric H. Ahles on 10/18/22
Analyst Description:	Gray/White, Heterogeneous, Fibrous, Bulk Material		
Asbestos Types:	Chrysotile 0.3%		
Other Material:	Cellulose 95%, Non-fibrous 4.8%		
21093K-02	122101148-02	***Yes***	0.5%
1	**Location:** Gray Jacket On The Hot Water Holding Tank; Mechanical Room K153 Insulated Hot Water Holding Tank		(EPA 600/M4-82-020) by Eric H. Ahles on 10/18/22
Analyst Description:	Gray/White, Heterogeneous, Fibrous, Bulk Material		
Asbestos Types:	Chrysotile 0.5%		
Other Material:	Cellulose 95%, Non-fibrous 4.5%		
21093K-03	122101148-03	***Yes***	4.9%
2	**Location:** Hot Water Holding Tank Adhesive/Sealant Behind Gray Jacket; Mechanical Room K153 Insulated Hot Water Holding Tank, On Green Foam Insulation		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description:	White, Heterogeneous, Non-Fibrous, Bulk Material		
Asbestos Types:	Chrysotile 4.9%		
Other Material:	Non-Asbestos 47%		
Comment:	Heat Sensitive (organic): 12.5%; Acid Soluble (inorganic): 34.8%; Inert (Non-asbestos): 47.8%		
21093K-04	122101148-04		NA/PS
2	**Location:** Hot Water Holding Tank Adhesive/Sealant Behind Gray Jacket; Mechanical Room K153 Insulated Hot Water Holding Tank, On Green Foam Insulation		
Analyst Description:	Bulk Material		
Asbestos Types:			
Other Material:			
Comment:	Heat Sensitive (organic): 7.5%; Acid Soluble (inorganic): 36.4%; Inert (Non-asbestos): 56.2%		

See Reporting notes on last page

PLM Bulk Asbestos Report

21093; ECC North Campus Mechanical Renovation; K Building
ECC North, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21093K-05	122101148-05	***No***	NAD
3	**Location:** Green Foam Insulation On The Hot Water Holding Tank; Mechanical Room K153 Insulated Hot Water Holding Tank Behind Gray Jacket		(by NYS ELAP 198.1) by Eric H. Ahles on 10/18/22
Analyst Description: Green, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
21093K-06	122101148-06	***No***	NAD
3	**Location:** Green Foam Insulation On The Hot Water Holding Tank; Mechanical Room K153 Insulated Hot Water Holding Tank Behind Gray Jacket		(by NYS ELAP 198.1) by Eric H. Ahles on 10/18/22
Analyst Description: Green, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
21093K-07	122101148-07	***No***	NAD
3	**Location:** Green Foam Insulation On The Hot Water Holding Tank; Mechanical Room K153 Insulated Hot Water Holding Tank Behind Gray Jacket		(by NYS ELAP 198.1) by Eric H. Ahles on 10/18/22
Analyst Description: Green, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
21093K-08	122101148-08	***No***	NAD
4	**Location:** Mud Insulation On Tan Hot Water Pipe Fittings; Mechanical Room K153 Tan Water Line At West Wall At Hot Water Holding Tank		(by NYS ELAP 198.1) by Eric H. Ahles on 10/18/22
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 15%, Non-fibrous 85%			
21093K-09	122101148-09	***No***	NAD
4	**Location:** Mud Insulation On Tan Hot Water Pipe Fittings; Mechanical Room K153 Tan Water Lines Vertical Along The East Wall		(by NYS ELAP 198.1) by Eric H. Ahles on 10/18/22
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 15%, Non-fibrous 85%			
21093K-10	122101148-10	***No***	NAD
4	**Location:** Mud Insulation On Tan Hot Water Pipe Fittings; Mechanical Room K153 Tan Water Lines Vertical Along The East Wall		(by NYS ELAP 198.1) by Eric H. Ahles on 10/18/22
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Fibrous glass 15%, Non-fibrous 85%			

See Reporting notes on last page

PLM Bulk Asbestos Report

21093; ECC North Campus Mechanical Renovation; K Building
ECC North, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21093K-11	122101148-11	***No***	NAD
5	**Location:** Tan Paper Jacket, Black Tar Dabs And Foil On Fiberglass TSI; Mechanical Room K153 Tan Water Lines At The South Wall		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-Asbestos 20%			
Comment: Heat Sensitive (organic): 75.7%; Acid Soluble (inorganic): 3.5%; Inert (Non-asbestos): 20.8%			
21093K-12	122101148-12	***No***	NAD
5	**Location:** Tan Paper Jacket, Black Tar Dabs And Foil On Fiberglass TSI; Mechanical Room K153 Tan Water Line At West Wall At Hot Water Holding Tank		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-Asbestos 29%			
Comment: Heat Sensitive (organic): 41.8%; Acid Soluble (inorganic): 29.3%; Inert (Non-asbestos): 29.0%			
21093K-13	122101148-13	***No***	NAD
6	**Location:** Gaskets In Hot Water Lines Mechanical Room K153; Mechanical Room K153 Hot Water Supply Valve Along East Wall. 6 Flange Gaskets		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Red, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-Asbestos 82%			
Comment: Heat Sensitive (organic): 11.7%; Acid Soluble (inorganic): 5.5%; Inert (Non-asbestos): 82.8%			
21093K-14	122101148-14	***No***	NAD
6	**Location:** Gaskets In Hot Water Lines Mechanical Room K153; Mechanical Room K153 Hot Water Return Valve Along East Wall. 6 Flange Gaskets		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Red, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-Asbestos 74%			
Comment: Heat Sensitive (organic): 13.8%; Acid Soluble (inorganic): 12.0%; Inert (Non-asbestos): 74.3%			
21093K-15	122101148-15	***No***	NAD
7	**Location:** Gray Jacket And Foil On Hot Water Supply And Return Lines Fiberglass TSI; Mechanical Room K153 Fiberglass Insulated Hot Water Supply Line At East Wall		(by NYS ELAP 198.1) by Eric H. Ahles on 10/18/22
Analyst Description: Gray/White, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 90%, Non-fibrous 10%			

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PLM Bulk Asbestos Report

21093; ECC North Campus Mechanical Renovation; K Building
ECC North, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21093K-16	122101148-16	***No***	NAD
7	**Location:** Gray Jacket And Foil On Hot Water Supply And Return Lines Fiberglass TSI; Mechanical Room K153 Hot Water Supply Line Above The Large Boiler		(by NYS ELAP 198.1) by Eric H. Ahles on 10/18/22
Analyst Description: Silver/White, Heterogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 90%, Non-fibrous 10%			
21093K-17	122101148-17	***No***	NAD
8	**Location:** Mud Insulation On Overhead Hot Water Supply And Return Lines; Mechanical Room K153 Hot Water Return Line At East Wall By Valves		(by NYS ELAP 198.1) by Eric H. Ahles on 10/18/22
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose Trace, Fibrous glass 15%, Non-fibrous 85%			
21093K-18	122101148-18	***No***	NAD
8	**Location:** Mud Insulation On Overhead Hot Water Supply And Return Lines; Mechanical Room K153 Hot Water Supply Line Elbow Above Large Boiler		(by NYS ELAP 198.1) by Eric H. Ahles on 10/18/22
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose Trace, Fibrous glass 15%, Non-fibrous 85%			
21093K-19	122101148-19	***No***	NAD
8	**Location:** Mud Insulation On Overhead Hot Water Supply And Return Lines; Mechanical Room K153 Hot Water Supply Line Elbow Above Large Boiler		(by NYS ELAP 198.1) by Eric H. Ahles on 10/18/22
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose Trace, Fibrous glass 15%, Non-fibrous 85%			
21093K-20	122101148-20	***No***	NAD
9	**Location:** White End Sealant Fiberglass Insulation Hot Water Piping; Mechanical Room K153 Newer Insulation Hot Water Supply Pipe Above Large Boiler		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-Asbestos 17%			
Comment: Heat Sensitive (organic): 46.4%; Acid Soluble (inorganic): 36.1%; Inert (Non-asbestos): 17.5%			

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PLM Bulk Asbestos Report

21093; ECC North Campus Mechanical Renovation; K Building
ECC North, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21093K-21	122101148-21	***No***	NAD
9	**Location:** White End Sealant Fiberglass Insulation Hot Water Piping; Mechanical Room K153 Newer Insulation Hot Water Supply Pipe Above Large Boiler		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 16% **Comment:** Heat Sensitive (organic): 47.3%; Acid Soluble (inorganic): 35.9%; Inert (Non-asbestos): 16.7%			
21093K-22	122101148-22	***No***	NAD
10	**Location:** White Fibrous Insulation On Small Boiler Behind Sheet Metal Jacket; Mechanical Room K153 Small Boiler By The Hot Water Holding Tank		(by NYS ELAP 198.1) by Eric H. Ahles on 10/18/22
Analyst Description: White, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 2.0%, Fibrous glass 98%, Non-fibrous Trace			
21093K-23	122101148-23	***No***	NAD
10	**Location:** White Fibrous Insulation On Small Boiler Behind Sheet Metal Jacket; Mechanical Room K153 Small Boiler By The Hot Water Holding Tank		(by NYS ELAP 198.1) by Eric H. Ahles on 10/18/22
Analyst Description: White, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 2.0%, Fibrous glass 98%, Non-fibrous Trace			
21093K-24	122101148-24	***No***	NAD
11	**Location:** Yellow Fibrous Insulation On Large Boiler Behind Sheet Metal Jacket; Mechanical Room K153 Large Boiler		(by NYS ELAP 198.1) by Eric H. Ahles on 10/18/22
Analyst Description: Yellow, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 2.0%, Fibrous glass 98%, Non-fibrous Trace			
21093K-25	122101148-25	***No***	NAD
11	**Location:** Yellow Fibrous Insulation On Large Boiler Behind Sheet Metal Jacket; Mechanical Room K153 Large Boiler		(by NYS ELAP 198.1) by Eric H. Ahles on 10/18/22
Analyst Description: Yellow, Heterogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 2.0%, Fibrous glass 98%, Non-fibrous Trace			

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PLM Bulk Asbestos Report

21093; ECC North Campus Mechanical Renovation; K Building
ECC North, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21093K-26	122101148-26	***No***	NAD
12	**Location:** White Paper And Foil On Fiberglass New Piping At Large Boiler; Mechanical Room K153 Hot Water Supply Line New Section Above Large Boiler		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Silver, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 29% **Comment:** Heat Sensitive (organic): 67.2%; Acid Soluble (inorganic): 3.4%; Inert (Non-asbestos): 29.4%			
21093K-27	122101148-27	***No***	NAD
12	**Location:** White Paper And Foil On Fiberglass New Piping At Large Boiler; Mechanical Room K153 Hot Water Return Line New Section Above Large Boiler		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Silver, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 37% **Comment:** Heat Sensitive (organic): 58.8%; Acid Soluble (inorganic): 3.3%; Inert (Non-asbestos): 37.9%			
21093K-28	122101148-28	***No***	NAD
13	**Location:** Gaskets On Piping At The Large Boiler; Mechanical Room K153 Cold Water Supply Line On Side Of The Large Boiler		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Red, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 12% **Comment:** Heat Sensitive (organic): 82.0%; Acid Soluble (inorganic): 6.0%; Inert (Non-asbestos): 12.0%			
21093K-29	122101148-29	***No***	NAD
13	**Location:** Gaskets On Piping At The Large Boiler; Mechanical Room K153 Cold Water Supply Line On Side Of The Large Boiler		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Red, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 13% **Comment:** Heat Sensitive (organic): 82.4%; Acid Soluble (inorganic): 3.7%; Inert (Non-asbestos): 13.9%			
21093K-30	122101148-30	***No***	NAD
14	**Location:** Gaskets In Red Valves And Pumps Above The Large Boiler; Mechanical Room K153 Red Valves And Pumps Above The Large Boiler. 10 Flange Gaskets		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Cream, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 69% **Comment:** Heat Sensitive (organic): 29.4%; Acid Soluble (inorganic): 1.6%; Inert (Non-asbestos): 69.0%			

See Reporting notes on last page

PLM Bulk Asbestos Report

21093; ECC North Campus Mechanical Renovation; K Building
ECC North, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21093K-31	122101148-31	***No***	NAD
14	**Location:** Gaskets In Red Valves And Pumps Above The Large Boiler; Mechanical Room K153 Red Valves And Pumps Above The Large Boiler. 10 Flange Gaskets		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Cream, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-Asbestos 68%			
Comment: Heat Sensitive (organic): 29.1%; Acid Soluble (inorganic): 2.6%; Inert (Non-asbestos): 68.3%			
21093K-32	122101148-32	***Yes***	1.3%
15	**Location:** Mud Fittings On Fiberglass Piping K Building Basement; 1/2" Diameter Line Mud Elbow In Basement Adjacent To Mechanical Room K153		(EPA 600/M4-82-020) by Eric H. Ahles on 10/18/22
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types: Chrysotile 1.3%			
Other Material: Fibrous glass 18%, Non-fibrous 80%			
21093K-33	122101148-33		NA/PS
15	**Location:** Mud Fittings On Fiberglass Piping K Building Basement; 1/2" Diameter Line Mud Elbow In Basement Adjacent To Mechanical Room K153		
Analyst Description: Bulk Material			
Asbestos Types:			
Other Material:			
21093K-34	122101148-34		NA/PS
15	**Location:** Mud Fittings On Fiberglass Piping K Building Basement; 1" Diameter Mud Elbow In Basement Adjacent To Mechanical Room K153		
Analyst Description: Bulk Material			
Asbestos Types:			
Other Material:			
21093K-35	122101148-35	***No***	NAD
16	**Location:** Wood Laminate And Mastic On Top Of 9" x 9" Floor Tiles; Room K152 On Top 9" Light Gray Floor Tiles		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-Asbestos 0.8%			
Comment: Heat Sensitive (organic): 70.4%; Acid Soluble (inorganic): 28.8%; Inert (Non-asbestos): 0.8%			

See Reporting notes on last page

PLM Bulk Asbestos Report

21093; ECC North Campus Mechanical Renovation; K Building
ECC North, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21093K-36 16	122101148-36 **Location:** Wood Laminate And Mastic On Top Of 9" x 9" Floor Tiles; Room K235 On Top 9" x 9" Green Floor Tiles	***No***	NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Brown, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 0.3% **Comment:** Heat Sensitive (organic): 65.9%; Acid Soluble (inorganic): 33.9%; Inert (Non-asbestos): 0.3%			
21093K-37 17	122101148-37 **Location:** 18" x 18" Gay Floor Tiles On Top 9" Light Gray Floor Tiles; Room K158 On Top Of 9" Gray Floor Tiles	***No***	NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 8.4% **Comment:** Heat Sensitive (organic): 50.3%; Acid Soluble (inorganic): 41.3%; Inert (Non-asbestos): 8.4%			
21093K-38 17	122101148-38 **Location:** 18" x 18" Gay Floor Tiles On Top 9" Light Gray Floor Tiles; Room K158 On Top Of 9" Gray Floor Tiles	***No***	NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos NAD **Comment:** Heat Sensitive (organic): 78.2%; Acid Soluble (inorganic): 21.8%			
21093K-39 18	122101148-39 **Location:** Tan Adhesive Beneath 18" Gray Floor Tiles And On Top 9" Floor Tiles; Room K158 On Top Of 9" Gray Floor Tiles	***No***	NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 0.4% **Comment:** Heat Sensitive (organic): 82.6%; Acid Soluble (inorganic): 17.0%; Inert (Non-asbestos): 0.4%			
21093K-40 18	122101148-40 **Location:** Tan Adhesive Beneath 18" Gray Floor Tiles And On Top 9" Floor Tiles; Room K158 On Top Of 9" Gray Floor Tiles	***No***	NAD (NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 0.4% **Comment:** Heat Sensitive (organic): 93.3%; Acid Soluble (inorganic): 6.3%; Inert (Non-asbestos): 0.4%			

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PLM Bulk Asbestos Report

21093; ECC North Campus Mechanical Renovation; K Building
ECC North, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21093K-41	122101148-41	***No***	NAD
19	**Location:** 2' x 4' Suspended Ceiling Tiles Pinhole & Small Fissure Pattern; Room 258 Suspended Ceiling		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-Asbestos 59%			
Comment: Heat Sensitive (organic): 22.5%; Acid Soluble (inorganic): 17.8%; Inert (Non-asbestos): 59.7%			
21093K-42	122101148-42	***No***	NAD
19	**Location:** 2' x 4' Suspended Ceiling Tiles Pinhole & Small Fissure Pattern; Room 256 Suspended Ceiling		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-Asbestos 58%			
Comment: Heat Sensitive (organic): 21.1%; Acid Soluble (inorganic): 20.3%; Inert (Non-asbestos): 58.6%			
21093K-43	122101148-43	***No***	NAD
20	**Location:** 2' x 2' Suspended Ceiling Tiles With Small Round Holes Pattern; Room 236 Suspended Ceiling		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-Asbestos 39%			
Comment: Heat Sensitive (organic): 13.3%; Acid Soluble (inorganic): 47.3%; Inert (Non-asbestos): 39.3%			
21093K-44	122101148-44	***No***	NAD
20	**Location:** 2' x 2' Suspended Ceiling Tiles With Small Round Holes Pattern; Room 231 Suspended Ceiling		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-Asbestos 52%			
Comment: Heat Sensitive (organic): 13.5%; Acid Soluble (inorganic): 34.4%; Inert (Non-asbestos): 52.1%			
21093K-45	122101148-45	***No***	NAD
21	**Location:** 2' x 2" Suspended Ceiling Tiles Pinhole & Small Slot Pattern; Second Floor Corridor At Room 230		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-Asbestos 53%			
Comment: Heat Sensitive (organic): 21.6%; Acid Soluble (inorganic): 24.8%; Inert (Non-asbestos): 53.6%			

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PLM Bulk Asbestos Report

21093; ECC North Campus Mechanical Renovation; K Building
ECC North, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21093K-46	122101148-46	***No***	NAD
21	**Location:** 2' x 2' Suspended Ceiling Tiles With Small Round Holes Pattern; First Floor Corridor At Room 152		(NOB by NYS ELAP 198.6) by Eric H. Ahles on 10/18/22
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 49% **Comment:** Heat Sensitive (organic): 27.3%; Acid Soluble (inorganic): 23.2%; Inert (Non-asbestos): 49.6%			
21093K-47	122101148-47	***No***	NAD
22	**Location:** 12" x 12" Light Green Floor Tile On Concrete ; Room 256		(NOB by NYS ELAP 198.6) by Beverly A. Schrage on 10/18/22
Analyst Description: Green, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 23% **Comment:** Heat Sensitive (organic): 14.3%; Acid Soluble (inorganic): 62.4%; Inert (Non-asbestos): 23.3%			
21093K-48	122101148-48	***No***	NAD
22	**Location:** 12" x 12" Light Green Floor Tile On Concrete ; Room 256		(NOB by NYS ELAP 198.6) by Beverly A. Schrage on 10/18/22
Analyst Description: Green, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 33% **Comment:** Heat Sensitive (organic): 13.3%; Acid Soluble (inorganic): 53.0%; Inert (Non-asbestos): 33.7%			
21093K-49	122101148-49	***Yes***	0.8% [1]
23	**Location:** Leveling Compound & Residual Black Mastic Beneath 12" Lt. Green Floor Tiles; Room 256 On Concrete		(NOB by EPA 600/M4-82-02(by Eric H. Ahles on 10/18/22
Analyst Description: Black/Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 0.8% **Other Material:** Non-Asbestos 38% **Comment:** Heat Sensitive (organic): 38.5%; Acid Soluble (inorganic): 22.0%; Inert (Non-asbestos): 38.7%			
21093K-50	122101148-50	***Yes***	0.4% [1]
23	**Location:** Leveling Compound & Residual Black Mastic Beneath 12" Lt. Green Floor Tiles; Room 256 On Concrete		(NOB by EPA 600/M4-82-02(by Eric H. Ahles on 10/18/22
Analyst Description: Black/Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 0.4% **Other Material:** Non-Asbestos 25% **Comment:** Heat Sensitive (organic): 44.7%; Acid Soluble (inorganic): 29.4%; Inert (Non-asbestos): 25.5%			

See Reporting notes on last page

PLM Bulk Asbestos Report

21093; ECC North Campus Mechanical Renovation; K Building
ECC North, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21093K-51	122101148-51	***No***	NAD
24	**Location:** Caulk Along Exterior Louver To Unit Ventilators; Exterior Of Room 113 Perimeter Of Exterior Louver 1" Wide 11" x 46"		(NOB by NYS ELAP 198.6) by Beverly A. Schrage on 10/18/22
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 6.1% **Comment:** Heat Sensitive (organic): 49.7%; Acid Soluble (inorganic): 44.2%; Inert (Non-asbestos): 6.1%			
21093K-52	122101148-52	***No***	NAD
24	**Location:** Caulk Along Exterior Louver To Unit Ventilators; Exterior Of Room 114 Perimeter Of Exterior Louver 1" Wide 11" x 46"		(NOB by NYS ELAP 198.6) by Beverly A. Schrage on 10/18/22
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 8.0% **Comment:** Heat Sensitive (organic): 51.4%; Acid Soluble (inorganic): 40.6%; Inert (Non-asbestos): 8.0%			
21093K-53	122101148-53L1	***No***	NAD
25	**Location:** 1/2" Black Tar And Fabric Vapor Barrier Beneath 2 1/2" Poly Iso Foam; K Building Roof Core 1 Northeast Area North Of Access Hatch At EPDM Patch		(NOB by NYS ELAP 198.6) by Beverly A. Schrage on 10/18/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 10% **Comment:** Heat Sensitive (organic): 76.4%; Acid Soluble (inorganic): 12.9%; Inert (Non-asbestos): 10.7%			
21093K-53	122101148-53L2	***No***	NAD
25	**Location:** 1/2" Black Tar And Fabric Vapor Barrier Beneath 2 1/2" Poly Iso Foam; K Building Roof Core 1 Northeast Area North Of Access Hatch At EPDM Patch		(by NYS ELAP 198.1) by Beverly A. Schrage on 10/18/22
Analyst Description: White, Heterogeneous, Non-Fibrous, Soft Concrete **Asbestos Types:** **Other Material:** Non-fibrous 100%			
21093K-54	122101148-54	***No***	NAD
25	**Location:** 1/2" Black Tar And Fabric Vapor Barrier Beneath 2 1/2" Poly Iso Foam; K Building Roof Core 2 West Roof West Area At EPDM Patch Field		(NOB by NYS ELAP 198.6) by Beverly A. Schrage on 10/18/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 13% **Comment:** Heat Sensitive (organic): 73.3%; Acid Soluble (inorganic): 12.9%; Inert (Non-asbestos): 13.8%			

See Reporting notes on last page

PLM Bulk Asbestos Report

21093; ECC North Campus Mechanical Renovation; K Building
ECC North, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21093K-55	122101148-55	***No***	NAD
26	**Location:** Soft Concrete Roof Deck Beneath Black Tar And Fabric Vapor Barrier; K Building Roof Core 1 Northeast Area North Of Access Hatch At EPDM Patch		(by NYS ELAP 198.1) by Beverly A. Schrage on 10/18/22
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
21093K-56	122101148-56	***No***	NAD
26	**Location:** Soft Concrete Roof Deck Beneath Black Tar And Fabric Vapor Barrier; K Building Roof Core 2 West Roof West Area At EPDM Patch Field		(by NYS ELAP 198.1) by Beverly A. Schrage on 10/18/22
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-fibrous 100%			
21093K-57	122101148-57	***Yes***	3.8%
27	**Location:** Black Tar Patches On Base Of Exhaust Fans; K Building South Roof Wing South East Area Ex Fan 1 Corner Patches 0.25 Ft2		(NOB by NYS ELAP 198.6) by Beverly A. Schrage on 10/18/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 3.8% **Other Material:** Non-Asbestos 8.5% **Comment:** Heat Sensitive (organic): 63.7%; Acid Soluble (inorganic): 24.0%; Inert (Non-asbestos): 8.5%			
21093K-58	122101148-58		NA/PS
27	**Location:** Black Tar Patches On Base Of Exhaust Fans; K Building West Roof West End Base Of Ex Fan 14 Splattered ~1 Ft2		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:** **Comment:** Heat Sensitive (organic): 99.7%; Acid Soluble (inorganic): 0.3%			
21093K-59	122101148-59	***No***	NAD
28	**Location:** Black Tar Patches On Base Of Vents And Ahu Units; K Building South Roof Center Area New Round Vent Above Pvc Roof Membrane		(NOB by NYS ELAP 198.6) by Beverly A. Schrage on 10/18/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Non-Asbestos 11% **Comment:** Heat Sensitive (organic): 73.6%; Acid Soluble (inorganic): 15.1%; Inert (Non-asbestos): 11.3%			

See Reporting notes on last page

PLM Bulk Asbestos Report

21093; ECC North Campus Mechanical Renovation; K Building
ECC North, Williamsville, NY

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
21093K-60	122101148-60	***No***	NAD
28	**Location:** Black Tar Patches On Base Of Vents And Ahu Units; K Building North Roof Center Valent Ahu Curb To Sheet Metal Duct		(NOB by NYS ELAP 198.6) by Beverly A. Schrage on 10/18/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-Asbestos 18%			
Comment: Heat Sensitive (organic): 70.4%; Acid Soluble (inorganic): 11.6%; Inert (Non-asbestos): 18.0%			
21093K-61	122101148-61	***No***	NAD
29	**Location:** Black Tar Sealant Edges Silver Foil Jackets On Foam Insulation To Ducts; K Building West Roof West End Sheet Metal Ducts At Trane AC 4		(NOB by NYS ELAP 198.6) by Beverly A. Schrage on 10/18/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-Asbestos 2.1%			
Comment: Heat Sensitive (organic): 82.0%; Acid Soluble (inorganic): 15.9%; Inert (Non-asbestos): 2.1%			
21093K-62	122101148-62	***No***	NAD
29	**Location:** Black Tar Sealant Edges Silver Foil Jackets On Foam Insulation To Ducts; K Building West Roof West End Sheet Metal Ducts At Trane Ac 3		(NOB by NYS ELAP 198.6) by Beverly A. Schrage on 10/18/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-Asbestos 0.4%			
Comment: Heat Sensitive (organic): 91.4%; Acid Soluble (inorganic): 8.2%; Inert (Non-asbestos): 0.4%			
21093K-63	122101148-63	***No***	NAD
29	**Location:** Black Tar Sealant Edges Silver Foil Jackets On Foam Insulation To Ducts; K Building North Roof Center Sheet Metal Ducts At Valent AHU		(NOB by NYS ELAP 198.6) by Beverly A. Schrage on 10/18/22
Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Non-Asbestos 0.4%			
Comment: Heat Sensitive (organic): 92.8%; Acid Soluble (inorganic): 6.8%; Inert (Non-asbestos): 0.4%			

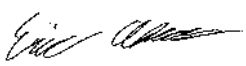
See Reporting notes on last page

PLM Bulk Asbestos Report

21093; ECC North Campus Mechanical Renovation; K Building
ECC North, Williamsville, NY

Reporting Notes:

(1) Physically inseparable layers in sample - sample composited for analysis

Analyzed by: Eric H. Ahles  Reviewed by: Cory M. Parnell 

Date: 10/18/2022

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis using Meiji, Model MT 6130 microscope, Serial #1410298, by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

BULK SAMPLE CHAIN-OF-CUSTODY FORMS

The purpose of the chain-of-custody form is to reduce the possibility of misidentifying individual samples, to help trace any samples that may be lost, and to provide a record certifying that the samples were delivered to and received by the analytical laboratory.

An important feature of this form is the signature section at the bottom, identifying all persons who handled the samples.

Table I
Summary of Bulk Asbestos Analysis Results by NYS ELAP 198.4

21093; ECC North Campus Mechanical Renovation; K Building ECC North, Williamsville, NY

AmeriSci Sample #	Client Sample#	HG Area	NOB Sample Weight (gram)	NOB Heat Sensitive Organic %	NOB Acid Soluble Inorganic %	NOB Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	21093K-01	1	----	----	----	----	Chrysotile 0.3	NA
Location:	Gray Jacket On The Hot Water Holding Tank; Mechanical Room K153 Insulated Hot Water Holding Tank							
02	21093K-02	1	----	----	----	----	Chrysotile 0.5	NA
Location:	Gray Jacket On The Hot Water Holding Tank; Mechanical Room K153 Insulated Hot Water Holding Tank							
03	21093K-03	2	0.385	12.5	34.8	51.6	Chrysotile 4.9	Chrysotile 1.1
Location:	Hot Water Holding Tank Adhesive/Sealant Behind Gray Jacket; Mechanical Room K153 Insulated Hot Water Holding Tank, On Green Foam Insulation							
04	21093K-04	2	0.306	7.5	36.4	56.2	NA/PS	NA/PS
Location:	Hot Water Holding Tank Adhesive/Sealant Behind Gray Jacket; Mechanical Room K153 Insulated Hot Water Holding Tank, On Green Foam Insulation							
05	21093K-05	3	----	----	----	----	NAD	NA
Location:	Green Foam Insulation On The Hot Water Holding Tank; Mechanical Room K153 Insulated Hot Water Holding Tank Behind Gray Jacket							
06	21093K-06	3	----	----	----	----	NAD	NA
Location:	Green Foam Insulation On The Hot Water Holding Tank; Mechanical Room K153 Insulated Hot Water Holding Tank Behind Gray Jacket							
07	21093K-07	3	----	----	----	----	NAD	NA
Location:	Green Foam Insulation On The Hot Water Holding Tank; Mechanical Room K153 Insulated Hot Water Holding Tank Behind Gray Jacket							
08	21093K-08	4	----	----	----	----	NAD	NA
Location:	Mud Insulation On Tan Hot Water Pipe Fittings; Mechanical Room K153 Tan Water Line At West Wall At Hot Water Holding Tank							
09	21093K-09	4	----	----	----	----	NAD	NA
Location:	Mud Insulation On Tan Hot Water Pipe Fittings; Mechanical Room K153 Tan Water Lines Vertical Along The East Wall							
10	21093K-10	4	----	----	----	----	NAD	NA
Location:	Mud Insulation On Tan Hot Water Pipe Fittings; Mechanical Room K153 Tan Water Lines Vertical Along The East Wall							
11	21093K-11	5	0.172	75.7	3.5	20.8	NAD	NAD
Location:	Tan Paper Jacket, Black Tar Dabs And Foil On Fiberglass TSI; Mechanical Room K153 Tan Water Lines At The South Wall							
12	21093K-12	5	0.078	41.8	29.3	29.0	NAD	NAD
Location:	Tan Paper Jacket, Black Tar Dabs And Foil On Fiberglass TSI; Mechanical Room K153 Tan Water Line At West Wall At Hot Water Holding Tank							
13	21093K-13	6	0.493	11.7	5.5	82.8	NAD	NAD
Location:	Gaskets In Hot Water Lines Mechanical Room K153; Mechanical Room K153 Hot Water Supply Valve Along East Wall. 6 Flange Gaskets							
14	21093K-14	6	0.440	13.8	12.0	74.3	NAD	NAD
Location:	Gaskets In Hot Water Lines Mechanical Room K153; Mechanical Room K153 Hot Water Return Valve Along East Wall. 6 Flange Gaskets							
15	21093K-15	7	----	----	----	----	NAD	NA
Location:	Gray Jacket And Foil On Hot Water Supply And Return Lines Fiberglass TSI; Mechanical Room K153 Fiberglass Insulated Hot Water Supply Line At East Wall							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results by NYS ELAP 198.4

21093; ECC North Campus Mechanical Renovation; K Building ECC North, Williamsville, NY

AmeriSci Sample #	Client Sample#	HG Area	NOB Sample Weight (gram)	NOB Heat Sensitive Organic %	NOB Acid Soluble Inorganic %	NOB Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
16	21093K-16	7	----	----	----	----	NAD	NA
Location:	Gray Jacket And Foil On Hot Water Supply And Return Lines Fiberglass TSI; Mechanical Room K153 Hot Water Supply Line Above The Large Boiler							
17	21093K-17	8	----	----	----	----	NAD	NA
Location:	Mud Insulation On Overhead Hot Water Supply And Return Lines; Mechanical Room K153 Hot Water Return Line At East Wall By Valves							
18	21093K-18	8	----	----	----	----	NAD	NA
Location:	Mud Insulation On Overhead Hot Water Supply And Return Lines; Mechanical Room K153 Hot Water Supply Line Elbow Above Large Boiler							
19	21093K-19	8	----	----	----	----	NAD	NA
Location:	Mud Insulation On Overhead Hot Water Supply And Return Lines; Mechanical Room K153 Hot Water Supply Line Elbow Above Large Boiler							
20	21093K-20	9	0.314	46.4	36.1	17.5	NAD	NAD
Location:	White End Sealant Fiberglass Insulation Hot Water Piping; Mechanical Room K153 Newer Insulation Hot Water Supply Pipe Above Large Boiler							
21	21093K-21	9	0.385	47.3	35.9	16.7	NAD	NAD
Location:	White End Sealant Fiberglass Insulation Hot Water Piping; Mechanical Room K153 Newer Insulation Hot Water Supply Pipe Above Large Boiler							
22	21093K-22	10	----	----	----	----	NAD	NA
Location:	White Fibrous Insulation On Small Boiler Behind Sheet Metal Jacket; Mechanical Room K153 Small Boiler By The Hot Water Holding Tank							
23	21093K-23	10	----	----	----	----	NAD	NA
Location:	White Fibrous Insulation On Small Boiler Behind Sheet Metal Jacket; Mechanical Room K153 Small Boiler By The Hot Water Holding Tank							
24	21093K-24	11	----	----	----	----	NAD	NA
Location:	Yellow Fibrous Insulation On Large Boiler Behind Sheet Metal Jacket; Mechanical Room K153 Large Boiler							
25	21093K-25	11	----	----	----	----	NAD	NA
Location:	Yellow Fibrous Insulation On Large Boiler Behind Sheet Metal Jacket; Mechanical Room K153 Large Boiler							
26	21093K-26	12	0.183	67.2	3.4	29.4	NAD	NAD
Location:	White Paper And Foil On Fiberglass New Piping At Large Boiler; Mechanical Room K153 Hot Water Supply Line New Section Above Large Boiler							
27	21093K-27	12	0.096	58.8	3.3	37.9	NAD	NAD
Location:	White Paper And Foil On Fiberglass New Piping At Large Boiler; Mechanical Room K153 Hot Water Return Line New Section Above Large Boiler							
28	21093K-28	13	0.114	82.0	6.0	12.0	NAD	NAD
Location:	Gaskets On Piping At The Large Boiler; Mechanical Room K153 Cold Water Supply Line On Side Of The Large Boiler							
29	21093K-29	13	0.148	82.4	3.7	13.9	NAD	NAD
Location:	Gaskets On Piping At The Large Boiler; Mechanical Room K153 Cold Water Supply Line On Side Of The Large Boiler							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results by NYS ELAP 198.4

21093; ECC North Campus Mechanical Renovation; K Building ECC North, Williamsville, NY

AmeriSci Sample #	Client Sample#	HG Area	NOB Sample Weight (gram)	NOB Heat Sensitive Organic %	NOB Acid Soluble Inorganic %	NOB Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
30	21093K-30	14	0.287	29.4	1.6	69.0	NAD	NAD
Location:	Gaskets In Red Valves And Pumps Above The Large Boiler; Mechanical Room K153 Red Valves And Pumps Above The Large Boiler. 10 Flange Gaskets							
31	21093K-31	14	0.322	29.1	2.6	68.3	NAD	NAD
Location:	Gaskets In Red Valves And Pumps Above The Large Boiler; Mechanical Room K153 Red Valves And Pumps Above The Large Boiler. 10 Flange Gaskets							
32	21093K-32	15	----	----	----	----	Chrysotile 1.3	NA
Location:	Mud Fittings On Fiberglass Piping K Building Basement; 1/2" Diameter Line Mud Elbow In Basement Adjacent To Mechanical Room K153							
33	21093K-33	15	----	----	----	----	NA/PS	NA
Location:	Mud Fittings On Fiberglass Piping K Building Basement; 1/2" Diameter Line Mud Elbow In Basement Adjacent To Mechanical Room K153							
34	21093K-34	15	----	----	----	----	NA/PS	NA
Location:	Mud Fittings On Fiberglass Piping K Building Basement; 1" Diameter Mud Elbow In Basement Adjacent To Mechanical Room K153							
35	21093K-35	16	0.446	70.4	28.8	0.8	NAD	NAD
Location:	Wood Laminate And Mastic On Top Of 9" x 9" Floor Tiles; Room K152 On Top 9" Light Gray Floor Tiles							
36	21093K-36	16	0.503	65.9	33.9	0.3	NAD	NAD
Location:	Wood Laminate And Mastic On Top Of 9" x 9" Floor Tiles; Room K235 On Top 9" x 9" Green Floor Tiles							
37	21093K-37	17	0.629	50.3	41.3	8.4	NAD	NAD
Location:	18" x 18" Gay Floor Tiles On Top 9" Light Gray Floor Tiles; Room K158 On Top Of 9" Gray Floor Tiles							
38	21093K-38	17	0.264	78.2	21.8	0.0	NAD	NAD
Location:	18" x 18" Gay Floor Tiles On Top 9" Light Gray Floor Tiles; Room K158 On Top Of 9" Gray Floor Tiles							
39	21093K-39	18	0.140	82.6	17.0	0.4	NAD	NAD
Location:	Tan Adhesive Beneath 18" Gray Floor Tiles And On Top 9" Floor Tiles; Room K158 On Top Of 9" Gray Floor Tiles							
40	21093K-40	18	0.212	93.3	6.3	0.4	NAD	NAD
Location:	Tan Adhesive Beneath 18" Gray Floor Tiles And On Top 9" Floor Tiles; Room K158 On Top Of 9" Gray Floor Tiles							
41	21093K-41	19	0.129	22.5	17.8	59.7	NAD	NAD
Location:	2' x 4' Suspended Ceiling Tiles Pinhole & Small Fissure Pattern; Room 258 Suspended Ceiling							
42	21093K-42	19	0.144	21.1	20.3	58.6	NAD	NAD
Location:	2' x 4' Suspended Ceiling Tiles Pinhole & Small Fissure Pattern; Room 256 Suspended Ceiling							
43	21093K-43	20	0.281	13.3	47.3	39.3	NAD	NAD
Location:	2' x 2' Suspended Ceiling Tiles With Small Round Holes Pattern; Room 236 Suspended Ceiling							
44	21093K-44	20	0.262	13.5	34.4	52.1	NAD	NAD
Location:	2' x 2' Suspended Ceiling Tiles With Small Round Holes Pattern; Room 231 Suspended Ceiling							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results by NYS ELAP 198.4

21093; ECC North Campus Mechanical Renovation; K Building ECC North, Williamsville, NY

AmeriSci Sample #	Client Sample#	HG Area	NOB Sample Weight (gram)	NOB Heat Sensitive Organic %	NOB Acid Soluble Inorganic %	NOB Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
45	21093K-45	21	0.094	21.6	24.8	53.6	NAD	NAD
Location:	2' x 2" Suspended Ceiling Tiles Pinhole & Small Slot Pattern; Second Floor Corridor At Room 230							
46	21093K-46	21	0.194	27.3	23.2	49.6	NAD	NAD
Location:	2' x 2' Suspended Ceiling Tiles With Small Round Holes Pattern; First Floor Corridor At Room 152							
47	21093K-47	22	0.752	14.3	62.4	23.3	NAD	NAD
Location:	12" x 12" Light Green Floor Tile On Concrete ; Room 256							
48	21093K-48	22	0.632	13.3	53.0	33.7	NAD	NAD
Location:	12" x 12" Light Green Floor Tile On Concrete ; Room 256							
49	21093K-49	23	0.248	38.5	22.0	39.4	Chrysotile 0.8	Chrysotile Trace
Location:	Leveling Compound & Residual Black Mastic Beneath 12" Lt. Green Floor Tiles; Room 256 On Concrete							
50	21093K-50	23	0.134	44.7	29.4	25.8	Chrysotile 0.4	Chrysotile Trace
Location:	Leveling Compound & Residual Black Mastic Beneath 12" Lt. Green Floor Tiles; Room 256 On Concrete							
51	21093K-51	24	0.302	49.7	44.2	6.1	NAD	NAD
Location:	Caulk Along Exterior Louver To Unit Ventilators; Exterior Of Room 113 Perimeter Of Exterior Louver 1" Wide 11" x 46"							
52	21093K-52	24	0.517	51.4	40.6	8.0	NAD	NAD
Location:	Caulk Along Exterior Louver To Unit Ventilators; Exterior Of Room 114 Perimeter Of Exterior Louver 1" Wide 11" x 46"							
53L1	21093K-53	25	0.479	76.4	12.9	10.7	NAD	NAD
Location:	1/2" Black Tar And Fabric Vapor Barrier Beneath 2 1/2" Poly Iso Foam; K Building Roof Core 1 Northeast Area North Of Access Hatch At EPDM Patch							
53L2	21093K-53	25	----	----	----	----	NAD	NA
Location:	1/2" Black Tar And Fabric Vapor Barrier Beneath 2 1/2" Poly Iso Foam; K Building Roof Core 1 Northeast Area North Of Access Hatch At EPDM Patch							
54	21093K-54	25	0.599	73.3	12.9	13.8	NAD	NAD
Location:	1/2" Black Tar And Fabric Vapor Barrier Beneath 2 1/2" Poly Iso Foam; K Building Roof Core 2 West Roof West Area At EPDM Patch Field							
55	21093K-55	26	----	----	----	----	NAD	NA
Location:	Soft Concrete Roof Deck Beneath Black Tar And Fabric Vapor Barrier; K Building Roof Core 1 Northeast Area North Of Access Hatch At EPDM Patch							
56	21093K-56	26	----	----	----	----	NAD	NA
Location:	Soft Concrete Roof Deck Beneath Black Tar And Fabric Vapor Barrier; K Building Roof Core 2 West Roof West Area At EPDM Patch Field							
57	21093K-57	27	0.409	63.7	24.0	12.3	Chrysotile 3.8	NA
Location:	Black Tar Patches On Base Of Exhaust Fans; K Building South Roof Wing South East Area Ex Fan 1 Corner Patches 0.25 Ft2							
58	21093K-58	27	0.241	99.7	0.3	0.0	NA/PS	NAD
Location:	Black Tar Patches On Base Of Exhaust Fans; K Building West Roof West End Base Of Ex Fan 14 Splattered ~1 Ft2							

See Reporting notes on last page

Table I
Summary of Bulk Asbestos Analysis Results by NYS ELAP 198.4

21093; ECC North Campus Mechanical Renovation; K Building ECC North, Williamsville, NY

AmeriSci Sample #	Client Sample#	HG Area	NOB Sample Weight (gram)	NOB Heat Sensitive Organic %	NOB Acid Soluble Inorganic %	NOB Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
59	21093K-59	28	0.370	73.6	15.1	11.3	NAD	NAD
Location:	Black Tar Patches On Base Of Vents And Ahu Units; K Building South Roof Center Area New Round Vent Above Pvc Roof Membrane							
60	21093K-60	28	0.492	70.4	11.6	18.0	NAD	NAD
Location:	Black Tar Patches On Base Of Vents And Ahu Units; K Building North Roof Center Valent Ahu Curb To Sheet Metal Duct							
61	21093K-61	29	0.327	82.0	15.9	2.1	NAD	NAD
Location:	Black Tar Sealant Edges Silver Foil Jackets On Foam Insulation To Ducts; K Building West Roof West End Sheet Metal Ducts At Trane AC 4							
62	21093K-62	29	0.768	91.4	8.2	0.4	NAD	NAD
Location:	Black Tar Sealant Edges Silver Foil Jackets On Foam Insulation To Ducts; K Building West Roof West End Sheet Metal Ducts At Trane Ac 3							
63	21093K-63	29	0.897	92.8	6.8	0.4	NAD	NAD
Location:	Black Tar Sealant Edges Silver Foil Jackets On Foam Insulation To Ducts; K Building North Roof Center Sheet Metal Ducts At Valent AHU							

Analyzed by: Cory M. Parnell

Reviewed by: Cory M. Parnell

Date: 10/14/2022

Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%; PLM analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) or NY ELAP 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab # 10984); TEM prep by EPA 600/R-93/116 Section 2.3 (analysis by Section 2.5, not covered by NVLAP Bulk accreditation); or NY ELAP 198.4 for New York NOB samples (NY ELAP Lab # 10984). Analysis using Jeol, Model JEM-100CX II microscope, Serial #156147-247. ** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.

12210148

Page: 1 of 4

WATTS ARCHITECTS & ENGINEERS
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Client: Erie County DPW/IBC Engineering
Project: ECC North Campus Mechanical Renovations
Building / Location: K Building ECC North, Williamsville, NY
Contact: Edward J. Jones at (716) 430-9349
Preliminary Results to: ejones@watts-ae.com and kjanik@watts-ae.com
Mail Report & Invoice to: Watts Architects & Engineers
95 Perry Street, Buffalo, NY 14203

Date: Thursday 09/29/2022
Watts Project No.: 21093

Analysis Requested:
198.1 x 198.6 x 198.4 x

Turnaround Requested:
3 Hr. 48 Hr.
6 Hr. 72 Hr.
12 Hr. 4 Day
24 Hr. X 5 Day
7 Day

Sample Number	Material Description	HA	Sample Location	Laboratory Results PLM	Laboratory Results TEM
21093K-01	Gray jacket on the hot water holding tank	1	Mechanical Room K153 insulated hot water holding tank		
21093K-02	Gray jacket on the hot water holding tank	1	Mechanical Room K153 insulated hot water holding tank		
21093K-03	Hot water holding tank adhesive/sealant behind gray jacket	2	Mechanical Room K153 insulated hot water holding tank, on green foam insulation		
21093K-04	Hot water holding tank adhesive/sealant behind gray jacket	2	Mechanical Room K153 insulated hot water holding tank, on green foam insulation		
21093K-05	Green Foam insulation on the hot water holding tank	3	Mechanical Room K153 insulated hot water holding tank behind gray jacket		
21093K-06	Green Foam insulation on the hot water holding tank	3	Mechanical Room K153 insulated hot water holding tank behind gray jacket		
21093K-07	Green Foam insulation on the hot water holding tank	3	Mechanical Room K153 insulated hot water holding tank behind gray jacket		
21093K-08	Mud insulation on tan hot water pipe fittings	4	Mechanical Room K153 tan water line at west wall at hot water holding tank		
21093K-09	Mud insulation on tan hot water pipe fittings	4	Mechanical Room K153 tan water lines vertical along the east wall		
21093K-10	Mud insulation on tan hot water pipe fittings	4	Mechanical Room K153 tan water lines vertical along the east wall		
21093K-11	Tan paper jacket, black tar dabs and foil on fiberglass TSI	5	Mechanical Room K153 tan water lines at the south wall		
21093K-12	Tan paper jacket, black tar dabs and foil on fiberglass TSI	5	Mechanical Room K153 tan water line at west wall at hot water holding tank		
21093K-13	Gaskets in hot water lines Mechanical Room K153	6	Mechanical Room K153 Hot Water Supply valve along east wall. 6 flange gaskets		
21093K-14	Gaskets in hot water lines Mechanical Room K153	6	Mechanical Room K153 Hot Water Return valve along east wall. 6 flange gaskets		
21093K-15	Gray jacket and foil on hot water supply and return lines fiberglass TSI	7	Mechanical Room K153 fiberglass insulated hot water supply line at east wall		
21093K-16	Gray jacket and foil on hot water supply and return lines fiberglass TSI	7	Mechanical Room K153 Hot Water Supply line above the large boiler		
21093K-17	Mud insulation on overhead hot water supply and return lines	8	Mechanical Room K153 Hot Water Return line at east wall by valves		
21093K-18	Mud insulation on overhead hot water supply and return lines	8	Mechanical Room K153 hot water supply line elbow above large boiler		
21093K-19	Mud insulation on overhead hot water supply and return lines	8	Mechanical Room K153 hot water supply line elbow above large boiler		

Sampled By: Edward J. Jones **Date:** 09/29/22 **Received By:** _____ **Date:** _____

Relinquished By: Edward J. Jones **Date:** 10/04/22 10:00 **Received By:** _____ **Date:** _____

Comments: If PLM NOB is negative, analyze by TEM. Stop at first positive for each homogeneous material description group.
If Vermiculite is detected , cease analysis and contact the Watts Project Manager for further instructions.

Received
OCT 05 2022

122101148

WATTS ARCHITECTS & ENGINEERS
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Client: Erie County DPW/IBC Engineering
Project: ECC North Campus Mechanical Renovations
Building / Location: K Building ECC North, Williamsville, NY
Contact: Edward J. Jones **at (716) 430-9349**
Preliminary Results to: ejones@watts-ae.com **and** kjanik@watts-ae.com
Mail Report & Invoice to: **Watts Architects & Engineers**
95 Perry Street, Buffalo, NY 14203

Date: Thursday 09/29/2022
Watts Project No.: 21093

Turnaround Requested:
___ 3 Hr. ___ 48 Hr.
___ 6 Hr. ___ 72 Hr.
___ 12 Hr. ___ 4 Day
___ 24 Hr. X 5 Day
7 Day

Analysis Requested:
198.1 x 198.6 x
198.4 x

Sample Number	Material Description	HA	Sample Location	Laboratory Results PLM	Laboratory Results TEM
21093K-20	White end sealant fiberglass insulation hot water piping	9	Mechanical Room K153 newer insulation hot water supply pipe above large boiler		
21093K-21	White end sealant fiberglass insulation hot water piping	9	Mechanical Room K153 newer insulation hot water supply pipe above large boiler		
21093K-22	White fibrous insulation on small boiler behind sheet metal jacket	10	Mechanical Room K153 small boiler by the hot water holding tank		
21093K-23	White fibrous insulation on small boiler behind sheet metal jacket	10	Mechanical Room K153 small boiler by the hot water holding tank		
21093K-24	Yellow fibrous insulation on large boiler behind sheet metal jacket	11	Mechanical Room K153 large boiler		
21093K-25	Yellow fibrous insulation on large boiler behind sheet metal jacket	11	Mechanical Room K153 large boiler		
21093K-26	White paper and foil on fiberglass new piping at large boiler	12	Mechanical Room K153 Hot Water Supply Line new section above large boiler		
21093K-27	White paper and foil on fiberglass new piping at large boiler	12	Mechanical Room K153 Hot Water Return Line new section above large boiler		
21093K-28	Gaskets on piping at the Large Boiler	13	Mechanical Room K153 Cold Water Supply line on side of the large boiler		
21093K-29	Gaskets on piping at the Large Boiler	13	Mechanical Room K153 Cold Water Supply line on side of the large boiler		
21093K-30	Gaskets in red valves and pumps above the Large Boiler	14	Mechanical Room K153 red valves and pumps above the large boiler. 10 flange gask		
21093K-31	Gaskets in red valves and pumps above the Large Boiler	14	Mechanical Room K153 red valves and pumps above the large boiler. 10 flange gask		
21093K-32	Mud fittings on fiberglass piping K Building basement	15	1/2" diameter line mud elbow in basement adjacent to Mechanical Room K153		
21093K-33	Mud fittings on fiberglass piping K Building basement	15	1/2" diameter line mud elbow in basement adjacent to Mechanical Room K153		
21093K-34	Mud fittings on fiberglass piping K Building basement	15	1" diameter mud elbow in basement adjacent to Mechanical Room K153		
21093K-35	Wood laminate and mastic on top of 9" x 9" floor tiles	16	Room K152 on top 9" light gray floor tiles		
21093K-36	Wood laminate and mastic on top of 9" x 9" floor tiles	16	Room K235 on top 9" x 9" green floor tiles		
21093K-37	18" x 18" gay floor tiles on top 9" light gray floor tiles	17	Room K158 on top of 9" gray floor tiles		
21093K-38	18" x 18" gay floor tiles on top 9" light gray floor tiles	17	Room K158 on top of 9" gray floor tiles		

Sampled By: Edward J. Jones **Date:** 09/29/22 **Received By:** _____ **Date:** _____
Relinquished By: Edward J. Jones **Date:** 10/04/22 16:00 **Received By:** _____ **Date:** _____

Received
OCT 05 2022

Comments: If PLM NOB is negative, analyze by TEM. Stop at first positive for each homogeneous material description group.
If Vermiculite is detected , cease analysis and contact the Watts Project Manager for further instructions.

12210148

WATTS ARCHITECTS & ENGINEERS
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Client: Erie County DPW/IBC Engineering
Project: ECC North Campus Mechanical Renovations
Building / Location: K Building ECC North, Williamsville, NY
Contact: Edward J. Jones at (716) 430-9349
Preliminary Results to: ejones@watts-ae.com and kjanik@watts-ae.com
Mail Report & Invoice to: Watts Architects & Engineers
95 Perry Street, Buffalo, NY 14203

Date: Thursday 09/29/2022
Watts Project No.: 21093

Turnaround Requested:

3 Hr.	48 Hr.
6 Hr.	72 Hr.
12 Hr.	4 Day
24 Hr.	X 5 Day
	7 Day

Analysis Requested:
198.1 x 198.6 x 198.4 x

Sample Number	Material Description	HA	Sample Location	Laboratory Results PLM	Laboratory Results TEM
21093K-39	Tan adhesive beneath 18" gray floor tiles and on top 9" floor tiles	18	Room K158 on top of 9" gray floor tiles		
21093K-40	Tan adhesive beneath 18" gray floor tiles and on top 9" floor tiles	18	Room K158 on top of 9" gray floor tiles		
21093K-41	2' x 4' suspended ceiling tiles pinhole & small fissure pattern	19	Room 258 suspended ceiling		
21093K-42	2' x 4' suspended ceiling tiles pinhole & small fissure pattern	19	Room 256 suspended ceiling		
21093K-43	2' x 2' suspended ceiling tiles with small round holes pattern	20	Room 236 suspended ceiling		
21093K-44	2' x 2' suspended ceiling tiles with small round holes pattern	20	Room 231 suspended ceiling		
21093K-45	2' x 2" suspended ceiling tiles pinhole & small slot pattern	21	Second floor corridor at Room 230		
21093K-46	2' x 2' suspended ceiling tiles with small round holes pattern	21	First floor corridor at Room 152		
21093K-47	12" x 12" light green floor tile on concrete	22	Room 256		
21093K-48	12" x 12" light green floor tile on concrete	22	Room 256		
21093K-49	Leveling compound & residual black mastic beneath 12" lt. green floor tiles	23	Room 256 on concrete		
21093K-50	Leveling compound & residual black mastic beneath 12" lt. green floor tiles	23	Room 256 on concrete		
21093K-51	Caulk along exterior louver to unit ventilators	24	Exterior of Room 113 perimeter of exterior louver 1" wide 11" x 46"		
21093K-52	Caulk along exterior louver to unit ventilators	24	Exterior of Room 114 perimeter of exterior louver 1" wide 11" x 46"		

Sampled By: Edward J. Jones **Date:** 09/29/22 **Received By:** _____ **Date:** _____
Relinquished By: Edward J. Jones **Date:** 10/04/22 10:00 **Received By:** _____ **Date:** _____

Comments: If PLM NOB is negative, analyze by TEM. Stop at first positive for each homogeneous material description group.
If Vermiculite is detected , cease analysis and contact the Watts Project Manager for further instructions.

Received
OCT 05 2022

12210148

Page: 4 of 4

WATTS ARCHITECTS & ENGINEERS
ASBESTOS BULK SAMPLE CHAIN-OF-CUSTODY

Client: Erie County DPW/IBC Engineering
Project: ECC North Campus Mechanical Renovations
Building / Location: K Building ECC North, Williamsville, NY
Contact: Edward J. Jones **at (716) 430-9349**
Preliminary Results to: ejones@watts-ae.com **and** kjanik@watts-ae.com
Mail Report & Invoice to: **Watts Architects & Engineers**
95 Perry Street, Buffalo, NY 14203

Date: Monday 10/03/2022
Watts Project No.: 21093

Turnaround Requested:

___ 3 Hr.	___ 48 Hr.
___ 6 Hr.	___ 72 Hr.
___ 12 Hr.	___ 4 Day
___ 24 Hr.	X 5 Day
	7 Day

Analysis Requested:
198.1 x 198.6 x 198.4 x

Sample Number	Material Description	HA	Sample Location	Laboratory Results PLM	Laboratory Results TEM
21093K-53	1/2" black tar and fabric vapor barrier beneath 2 1/2" poly iso foam	25	K Building roof Core 1 northeast area north of access hatch at EPDM patch		
21093K-54	1/2" black tar and fabric vapor barrier beneath 2 1/2" poly iso foam	25	K Building roof Core 2 west roof west area at EPDM patch field		
21093K-55	Soft concrete roof deck beneath black tar and fabric vapor barrier	26	K Building roof Core 1 northeast area north of access hatch at EPDM patch		
21093K-56	Soft concrete roof deck beneath black tar and fabric vapor barrier	26	K Building roof Core 2 west roof west area at EPDM patch field		
21093K-57	Black tar patches on base of Exhaust Fans	27	K Building south roof wing south east area Ex Fan 1 corner patches 0.25 ft2		
21093K-58	Black tar patches on base of Exhaust Fans	27	K Building west roof west end base of Ex Fan 14 splattered ~1 ft2		
21093K-59	Black tar patches on base of vents and AHU units	28	K Building south roof center area new round vent above PVC roof membran		
21093K-60	Black tar patches on base of vents and AHU units	28	K Building north roof center Valent AHU curb to sheet metal duct		
21093K-61	Black tar sealant edges silver foil jackets on foam insulation to ducts	29	K Building west roof west end sheet metal ducts at Trane AC 4		
21093K-62	Black tar sealant edges silver foil jackets on foam insulation to ducts	29	K Building west roof west end sheet metal ducts at Trane AC 3		
21093K-63	Black tar sealant edges silver foil jackets on foam insulation to ducts	29	K Building north roof center sheet metal ducts at Valent AHU		

Sampled By: Edward J. Jones **Date:** 10/03/22 **Received By:** _____ **Date:** _____

Relinquished By: Edward J. Jones **Date:** 10/04/22 10:00 **Received By:** _____ **Date:** _____

Comments: If PLM NOB is negative, analyze by TEM. Stop at first positive for each homogeneous material description group.
If Vermiculite is detected , cease analysis and contact the Watts Project Manager for further instructions.

~~Received~~

OCT 05 2022

SIENNA
ENVIRONMENTAL TECHNOLOGIES

350 Elmwood Ave. | Buffalo NY 14222 | 716.332.3134
83 Fall St. | Seneca Falls NY 13148 | 315.257.0270

September 1, 2020

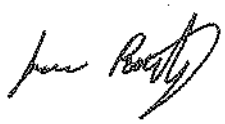
Joe Lenahan
Kideney Architects
143 Genesee Street
Buffalo, New York 14203

Re: Pre-Renovation Asbestos-Containing Materials, Lead-Based Paint, and Exterior PCB-Containing Materials Inspection Report
Toilet Room Renovations
SUNY Erie North Campus ADA and Electrical Upgrades
6205 Main Street
Williamsville, New York 14221
SET #3657

Dear Mr. Lenahan:

Enclosed please find a copy of the Pre-Renovation Asbestos-Containing Materials, Lead-Based Paint, and Exterior PCB-Containing Materials Inspection Report for the SUNY Erie North Campus ADA and Electrical Upgrades project, located at 6205 Main Street in Williamsville, New York. Should you have any questions please do not hesitate to contact our office at 716.332.3134. Thank you for the opportunity to be of service to Kideney Architects.

Sincerely,



Jesse Batz
Project Manager

Enclosures

Pre-Renovation
Asbestos-Containing Materials,
Lead-Based Paint, and
Exterior PCB-Containing Materials
Inspection Report

OF THE:

Toilet Room Renovations
SUNY Erie North Campus ADA and Electrical Upgrades
6205 Main Street
Williamsville, New York 14221
SET #3657

PREPARED BY:

SIENNA
ENVIRONMENTAL TECHNOLOGIES

PREPARED FOR:

Kideney Architects
143 Genesee Street
Buffalo, New York 14203

CONDITIONS AS OF:

August 27, 2020

2.2 Executive Summary

The asbestos inspection included identification, sampling, analysis, and quantification of suspect materials that may be disturbed by the project. By definition an Asbestos-Containing Material (ACM) is any material which contains greater than one percent (>1%) asbestos. Materials which contain asbestos in measurable concentrations less than or equal to one percent (≤1%) are reported as containing "trace" amounts.

Copies of all laboratory analysis reports and chains of custody listing locations of sample collection are located in Appendix C. Refer to floor plans located in Appendix E for specific sample location points. Refer to Appendix F for a summary of all functional spaces which were included as part of this inspection service. For explanation of inspection notes, refer to Section 2.7 for note details and specific comments.

2.3 Confirmed Asbestos-Containing Materials

The following materials have been sampled and analyzed by current EPA AHERA and ELAP protocols and have been proven to contain greater than one percent (>1%) asbestos. Refer to the summary table within Section 2.6 for a listing of the locations, conditions, and quantities for each asbestos-containing material.

Kittinger Hall

HAN Number	Material Description	Comments
WALLS (100s)		
123.2	4" x 6" Ceramic Tile Mastic	Photo #1
PIPE INSULATION (400s)		
420	Mud Elbow on Domestic Line	Homogeneous to HAN 421
421	Mud Fitting on Fiberglass Insulation	Homogeneous to HAN 420

Bretschger Hall

HAN Number	Material Description	Comments
PIPE INSULATION (400s)		
441	Mud Elbow on Domestic Line	Homogeneous to HAN 444
444	Mud Fittings on Fiberglass Pipe Insulation	Homogeneous to HAN 441
MISCELLANEOUS (600s)		
641	Vestibule Frame Caulk	Photo #4

Spring Student Center

HAN Number	Material Description	Comments
CEILINGS (200s)		
202	Plaster Base Coat	Photo #5
PIPE INSULATION (400s)		
401	Domestic Elbow Insulation	Photo #6
403	Heating Pipe Elbow Insulation	Photo #7
MISCELLANEOUS (600s)		
600	Tar on Structural Steel	Photo #8
604	Window Glazing Compound- Light Grey	Photo #9

2.4 Assumed Asbestos-Containing Suspect Materials

The following materials have been identified as suspect asbestos-containing materials, but have not been analyzed. These materials must be assumed to be asbestos-containing until such time that sampling and analysis proves that the material contains 1% asbestos or less.

Kittinger Hall
No suspect Asbestos-Containing Materials have been assumed to be Asbestos-Containing Materials. Refer to Sections 2.3 and 2.5.

Bretschger Hall

HAN Number	Material Description	Comments
PIPE INSULATION (400s)		
442	Roof Drain Bowl	Note 1
443	Roof Drain Elbow	Note 1

Spring Student Center
No suspect Asbestos-Containing Materials have been assumed to be Asbestos-Containing Materials. Refer to Sections 2.3 and 2.5.

Bell Sports Center
No suspect Asbestos-Containing Materials have been assumed to be Asbestos-Containing Materials. Refer to Sections 2.3 and 2.5.

Gleasner Hall
No suspect Asbestos-Containing Materials have been assumed to be Asbestos-Containing Materials. Refer to Sections 2.3 and 2.5.

Library
No suspect Asbestos-Containing Materials have been assumed to be Asbestos-Containing Materials. Refer to Sections 2.3 and 2.5.

Facilities/ Maintenance
No suspect Asbestos-Containing Materials have been assumed to be Asbestos-Containing Materials. Refer to Sections 2.3 and 2.5.

2.5 Confirmed Non-Asbestos Containing Materials

These materials were sampled and analyzed by current EPA AHERA and ELAP protocols and were proven to contain one percent asbestos or less (≤1%).

Kittinger Hall

HAN Number	Material Description	Comments
WALLS (100s)		
120.1	3" x 6" Ceramic Tile Grout	N/A
120.2	3" x 6" Ceramic Tile Mudset	N/A
121.1	RFP Mastic, Yellow	N/A
121.2	Drywall Backer	N/A
122.1	Gypsum Board	N/A
122.2	Joint Compound	N/A
123.1	4" x 6" Ceramic Tile Grout	N/A
CEILINGS (200s)		
220.1	Plaster Skim Coat	N/A
220.2	Plaster Base Coat	N/A
221.1	Drywall	N/A
221.2	Joint Compound	N/A
222	2' x 4' Ceiling Tile, Dot and Fissure	N/A
223	2' x 2' Small Dot and Fissured Ceiling Tile	N/A
224	2' x 2' Big Dot, Small Dot Ceiling Tile	N/A
FLOORS (300s)		
320.1	1" x 1" Mosaic Tile Grout	N/A
320.2	1" x 1" Mosaic Tile Thinset	N/A
320.3	1" x 1" Mosaic Tile Mudset	N/A
MISCELLANEOUS (600s)		
620	Covebase Mastic	N/A
621	Interior Metal Door Frame Sealant Caulk- Grey	N/A
622	Tar Coating	N/A
623	Exterior Seam/Metal Frame Sealant Caulk	N/A

Bretschger Hall

HAN Number	Material Description	Comments
WALLS (100s)		
140.1	3" x 6" Ceramic Tile Grout	N/A
140.2	3" x 6" Ceramic Tile Mudset	N/A
141.1	3" x 5" Ceramic Tile Grout	N/A
141.2	3" x 5" Ceramic Tile Mastic	N/A
142.1	Plaster Skim Coat	N/A
142.2	Plaster Base Coat	N/A
143.1	Gypsum Board	N/A
143.2	Joint Compound	N/A
CEILINGS (200s)		
240.1	Plaster Skim Coat, Textured	Trace, <1% asbestos
240.2	Plaster Base Coat	N/A
241.1	Plaster Skim Coat, Smooth	N/A
241.2	Plaster Base Coat	N/A
242	2' x 2' Ceiling Tile- Dot	N/A
243	2' x 4' Ceiling Tile- Dot and Fissure	N/A

SIENNA
ENVIRONMENTAL TECHNOLOGIES

Appendix C

Chains of Custody and Laboratory Reports

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: 8047631200 FAX: 8047631800

August 22, 2020

Sienna Environmental Technologies, LLC
Attn: Susanne Kelley
350 Elmwood Ave
Buffalo, NY 14222

RE: Sienna Environmental Technologies, LLC
Job Number 120081727
P.O. #3657
3657; Joseph Lenahan/Kideney; SUNY Erie North Campus-Kittinger/6205 Main St Williamsville NY, 14221

Dear Susanne Kelley:

Enclosed are the results of Asbestos Analysis - Bulk Protocol of the following Sienna Environmental Technologies, LLC samples, received at AmeriSci on Thursday, August 20, 2020, for a 3 day turnaround:

080720-3657-122.1-1, 080720-3657-122.1-2, 080720-3657-122.2-1, 080720-3657-122.2-2, 080720-3657-123.1-1, 080720-3657-123.1-2, 080720-3657-123.2-1, 080720-3657-223-2, 080720-3657-223-1, 080720-3657-224-2, 080720-3657-224-1, 080720-3657-421-2, 080720-3657-421-1, 080720-3657-421-2, 080720-3657-421-3, 080720-3657-621-1, 080720-3657-621-2, 080720-3657-622-1, 080720-3657-622-2, 080720-3657-623-1, 080720-3657-623-2

The 21 samples, placed in zip lock bag, were shipped to AmeriSci via Fed Ex 8149 1217 2400 B. Sienna Environmental Technologies, LLC requested ELAP PLM/TEM analysis of these samples.

The results of the analyses which were performed under NYSDOH ELAP Lab Certification # 10984 following ELAP 198.4 TEM guidelines are presented within the Summary Table of this report. The presence of matrix reduction data in the Summary Table normally indicates an NOB sample. For NOB samples the individual matrix reduction and TEM analysis results are listed in Table I. Complete PLM results for individual samples analyzed by ELAP 198.1 (friable) and ELAP 198.6 (NOB) are presented in the PLM Bulk Asbestos Report. This combined report relates ONLY to sample analysis expressed as percent composition by weight and percent asbestos. This report must not be used to claim product endorsement or approval by these laboratories, NVLAP, ELAP or any other associated agency. The National Institute of Standards and Technology accreditation requirements, mandate that this report must not be reproduced, except in full without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations respectively, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

T. Brian Keith
Laboratory Director | Authorized Signatory

AmeriSci Richmond
13635 GENITO ROAD
MIDLOTHIAN, VIRGINIA 23112
TEL: (804) 763-1200 • FAX: (804) 763-1800

PLM Bulk Asbestos Report

Sienna Environmental Technologies, LLC
Attn: Susanne Kelley
350 Elmwood Ave

Buffalo, NY 14222

Date Received 08/20/20
Date Examined 08/21/20
ELAP # 10984

AmeriSci Job # 120081727
P.O. #
Page 1 **of** 5

RE: 3657; Joseph Lenahan/Kideney; SUNY Erie North Campus-Kittinger/6205 Main St Williamsville NY, 14221

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
080720-3657-122.1-1 122.1 **Location:** Gypsum Board; K123	120081727-01	***No***	NAD (by NYS ELAP 198.1) by Jean L. Mayes on 08/21/20
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** , Non-fibrous 100 %			
080720-3657-122.1-2 122.1 **Location:** Gypsum Board; K123	120081727-02	***No***	NAD (by NYS ELAP 198.1) by Jean L. Mayes on 08/21/20
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** , Non-fibrous 100 %			
080720-3657-122.2-1 122.2 **Location:** Joint Compound; K123	120081727-03	***No***	NAD (by NYS ELAP 198.1) by Jean L. Mayes on 08/21/20
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** , Non-fibrous 100 %			
080720-3657-122.2-2 122.2 **Location:** Joint Compound; K123	120081727-04	***No***	NAD (by NYS ELAP 198.1) by Jean L. Mayes on 08/21/20
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** , Non-fibrous 100 %			
080720-3657-123.1-1 123.1 **Location:** 4"x6" Ceramic Tile Grout; K167	120081727-05	***No***	NAD (by NYS ELAP 198.1) by Jean L. Mayes on 08/21/20
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** , Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

3657; Joseph Lenahan/Kideney; SUNY Erie North Campus-
Kittinger/6205 Main St Williamsville NY, 14221

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
080720-3657-123.1-2	120081727-06	***No***	NAD
123.1	**Location:** 4"x6" Ceramic Tile Grout; K250		(by NYS ELAP 198.1) by Jean L. Mayes on 08/21/20
Analyst Description: White, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** , Non-fibrous 100 %			
080720-3657-123.2-1	120081727-07	***Yes***	5.3 %
123.2	**Location:** 4"x6" Ceramic Tile Mastic; K167		(by NYS ELAP 198.6) by Jean L. Mayes on 08/21/20
Analyst Description: Yellow, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 5.3 % **Other Material:** Non-fibrous 30.4 % **Comment:** Heat Sensitive (organic): 46.3%; Acid Soluble (inorganic): 18.0%; Inert (Non-asbestos): 30.4%			
080720-3657-223-2	120081727-08		NA/PS
123.2	**Location:** 4"x6" Ceramic Tile Mastic; K250		
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:** **Comment:** Heat Sensitive (organic): 48.4%; Acid Soluble (inorganic): 17.2%; Inert (Non-asbestos): 34.4%			
080720-3657-223-1	120081727-09	***No***	NAD
223	**Location:** 2'x2' Small Dot And Fissured Ceiling Tile; K250		(by NYS ELAP 198.6) by Jean L. Mayes on 08/21/20
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** , Non-fibrous 53.9 % **Comment:** Heat Sensitive (organic): 30.4%; Acid Soluble (inorganic): 15.8%; Inert (Non-asbestos): 53.9%			
080720-3657-224-2	120081727-10	***No***	NAD
223	**Location:** 2'x2' Small Dot And Fissured Ceiling Tile; K164		(by NYS ELAP 198.6) by Jean L. Mayes on 08/21/20
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** , Non-fibrous 56.3 % **Comment:** Heat Sensitive (organic): 27.5%; Acid Soluble (inorganic): 16.2%; Inert (Non-asbestos): 56.3%			

See Reporting notes on last page

PLM Bulk Asbestos Report

3657; Joseph Lenahan/Kideney; SUNY Erie North Campus-Kittinger/6205 Main St Williamsville NY, 14221

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
080720-3657-224-1 224	120081727-11 **Location:** 2'x2' Big Dot, Small Dot Ceiling Tile; K167	***No***	NAD (by NYS ELAP 198.6) by Jean L. Mayes on 08/21/20
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** , Non-fibrous 35.8 % **Comment:** Heat Sensitive (organic): 14.4%; Acid Soluble (inorganic): 49.7%; Inert (Non-asbestos): 35.8%			
080720-3657-421-2 224	120081727-12 **Location:** 2'x2' Big Dot, Small Dot Ceiling Tile; K250	***No***	NAD (by NYS ELAP 198.6) by Jean L. Mayes on 08/21/20
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** **Other Material:** , Non-fibrous 35.3 % **Comment:** Heat Sensitive (organic): 14.0%; Acid Soluble (inorganic): 50.7%; Inert (Non-asbestos): 35.3%			
080720-3657-421-1 421	120081727-13 **Location:** Mud Fitting On F/R Insulation; CSK4	***Yes***	5.1 % (by NYS ELAP 198.1) by Jean L. Mayes on 08/21/20
Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material **Asbestos Types:** Chrysotile 5.1 % **Other Material:** Non-fibrous 94.9 %			
080720-3657-421-2 421	120081727-14 **Location:** Mud Fitting On F/R Insulation; CSK4		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
080720-3657-421-3 421	120081727-15 **Location:** Mud Fitting On F/R Insulation; CSK2		NA/PS
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			

See Reporting notes on last page

PLM Bulk Asbestos Report

3657; Joseph Lenahan/Kideney; SUNY Erie North Campus-Kittinger/6205 Main St Williamsville NY, 14221

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
080720-3657-621-1	120081727-16	***No***	NAD
621	**Location:** Interior Metal Door Frame Sealant Caulk - Grey; K165		(by NYS ELAP 198.6) by Jean L. Mayes on 08/21/20

Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: , Non-fibrous 8.9 %
Comment: Heat Sensitive (organic): 63.9%; Acid Soluble (inorganic): 27.2%; Inert (Non-asbestos): 8.9%

080720-3657-621-2	120081727-17	***No***	NAD
621	**Location:** Interior Metal Door Frame Sealant Caulk - Grey; K165		(by NYS ELAP 198.6) by Jean L. Mayes on 08/21/20

Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: , Non-fibrous 10.8 %
Comment: Heat Sensitive (organic): 64.0%; Acid Soluble (inorganic): 25.2%; Inert (Non-asbestos): 10.8%

080720-3657-622-1	120081727-18	***No***	NAD
622	**Location:** Tar Coating; K302		(by NYS ELAP 198.6) by Jean L. Mayes on 08/21/20

Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: , Non-fibrous 48.8 %
Comment: Heat Sensitive (organic): 45.6%; Acid Soluble (inorganic): 5.6%; Inert (Non-asbestos): 48.8%

080720-3657-622-2	120081727-19	***No***	NAD
622	**Location:** Tar Coating; K302		(by NYS ELAP 198.6) by Jean L. Mayes on 08/21/20

Analyst Description: Black, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: , Non-fibrous 50.2 %
Comment: Heat Sensitive (organic): 44.6%; Acid Soluble (inorganic): 5.3%; Inert (Non-asbestos): 50.2%

080720-3657-623-1	120081727-20	***No***	NAD
623	**Location:** Exterior Seam/Metal Frame Sealant Caulk; K302		(by NYS ELAP 198.6) by Jean L. Mayes on 08/21/20

Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: , Non-fibrous 19.4 %
Comment: Heat Sensitive (organic): 58.1%; Acid Soluble (inorganic): 22.5%; Inert (Non-asbestos): 19.4%

See Reporting notes on last page

PLM Bulk Asbestos Report

3657; Joseph Lenahan/Kideney; SUNY Erie North Campus-Kittinger/6205 Main St Williamsville NY, 14221

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
080720-3657-623-2	120081727-21	***No***	NAD
623	**Location:** Exterior Seam/Metal Frame Sealant Caulk; K302		(by NYS ELAP 198.6) by Jean L. Mayes on 08/21/20

Analyst Description: Gray, Heterogeneous, Non-Fibrous, Bulk Material
Asbestos Types:
Other Material: , Non-fibrous 21 %
Comment: Heat Sensitive (organic): 53.7%; Acid Soluble (inorganic): 25.3%; Inert (Non-asbestos): 21.0%

Reporting Notes:

Analyzed by: Jean L. Mayes
Date: 8/21/2020

Reviewed by: T. Brian Keith

*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis using Olympus, Model BH-2 microscope, Serial #233533, by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NYSDOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Client Name: Sienna Environmental Technologies, LLC

Table I
Summary of Bulk Asbestos Analysis Results

3657; Joseph Lenahan/Kideney; SUNY Erie North Campus-Kittinger/6205 Main St Williamsville NY, 14221

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
01	080720-3657-122.1-1	122.1	----	----	----	----	NAD	NA
Location: Gypsum Board; K123								
02	080720-3657-122.1-2	122.1	----	----	----	----	NAD	NA
Location: Gypsum Board; K123								
03	080720-3657-122.2-1	122.2	----	----	----	----	NAD	NA
Location: Joint Compound; K123								
04	080720-3657-122.2-2	122.2	----	----	----	----	NAD	NA
Location: Joint Compound; K123								
05	080720-3657-123.1-1	123.1	----	----	----	----	NAD	NA
Location: 4"x6" Ceramic Tile Grout; K167								
06	080720-3657-123.1-2	123.1	----	----	----	----	NAD	NA
Location: 4"x6" Ceramic Tile Grout; K250								
07	080720-3657-123.2-1	123.2	0.585	46.3	18.0	30.4	Chrysotile 5.3	NA
Location: 4"x6" Ceramic Tile Mastic; K167								
08	080720-3657-223-2	123.2	0.578	48.4	17.2	34.4	NA/PS	NA
Location: 4"x6" Ceramic Tile Mastic; K250								
09	080720-3657-223-1	223	0.135	30.4	15.8	53.9	NAD	NAD
Location: 2'x2' Small Dot And Fissured Ceiling Tile; K250								
10	080720-3657-224-2	223	0.121	27.5	16.2	56.3	NAD	NAD
Location: 2'x2' Small Dot And Fissured Ceiling Tile; K164								
11	080720-3657-224-1	224	0.233	14.4	49.7	35.8	NAD	NAD
Location: 2'x2' Big Dot, Small Dot Ceiling Tile; K167								
12	080720-3657-421-2	224	0.189	14.0	50.7	35.3	NAD	NAD
Location: 2'x2' Big Dot, Small Dot Ceiling Tile; K250								
13	080720-3657-421-1	421	----	----	----	----	Chrysotile 5.1	NA
Location: Mud Fitting On F/R Insulation; CSK4								
14	080720-3657-421-2	421	----	----	----	----	NA/PS	NA
Location: Mud Fitting On F/R Insulation; CSK4								
15	080720-3657-421-3	421	----	----	----	----	NA/PS	NA
Location: Mud Fitting On F/R Insulation; CSK2								
16	080720-3657-621-1	621	0.325	63.9	27.2	8.9	NAD	NAD
Location: Interior Metal Door Frame Sealant Caulk - Grey; K165								

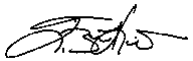
See Reporting notes on last page

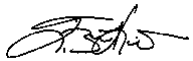
Client Name: Sienna Environmental Technologies, LLC

Table I
Summary of Bulk Asbestos Analysis Results

3657; Joseph Lenahan/Kideney; SUNY Erie North Campus-Kittinger/6205 Main St Williamsville NY, 14221

AmeriSci Sample #	Client Sample#	HG Area	Sample Weight (gram)	Heat Sensitive Organic %	Acid Soluble Inorganic %	Insoluble Non-Asbestos Inorganic %	** Asbestos % by PLM/DS	** Asbestos % by TEM
17	080720-3657-621-2	621	0.438	64.0	25.2	10.8	NAD	NAD
Location:	Interior Metal Door Frame Sealant Caulk - Grey; K165							
18	080720-3657-622-1	622	0.320	45.6	5.6	48.8	NAD	NAD
Location:	Tar Coating; K302							
19	080720-3657-622-2	622	0.283	44.6	5.3	50.2	NAD	NAD
Location:	Tar Coating; K302							
20	080720-3657-623-1	623	0.515	58.1	22.5	19.4	NAD	NAD
Location:	Exterior Seam/Metal Frame Sealant Caulk; K302							
21	080720-3657-623-2	623	0.433	53.7	25.3	21.0	NAD	NAD
Location:	Exterior Seam/Metal Frame Sealant Caulk; K302							

Analyzed by: T. Brian Keith 

Reviewed by: T. Brian Keith 

Date: 8/22/2020

Semi-Quantitative Analysis: NAD = no asbestos detected; NA = not analyzed; NA/PS = not analyzed due to positive stop; Trace = <1%; PLM analysis by EPA 600/R-93/116 per 40 CFR 763 (NVLAP Lab Code 101904-0) or NY ELAP 198.1 for New York friable samples which includes quantitation of any vermiculite observed (198.6 for NOB samples) or EPA 400 pt ct by EPA 600/M4-82-020 (NY ELAP Lab # 10984); TEM prep by EPA 600/R-93/116 Section 2.3 (analysis by Section 2.5, not covered by NVLAP Bulk accreditation); or NY ELAP 198.4 for New York NOB samples (NY ELAP Lab # 10984); ** Warning Notes: Consider PLM fiber diameter limitation, only TEM will resolve fibers <0.25 micrometers in diameter. TEM bulk analysis is representative of the fine grained matrix material and may not be representative of non-uniformly dispersed debris, soils or other heterogeneous materials for which a combination PLM/TEM evaluation is recommended; Quantitation for beginning weights of <0.1 grams should be considered as qualitative only.

Chain of Custody Document

120081727

SIENNA
ENVIRONMENTAL TECHNOLOGIES

350 Elmwood Ave. • Buffalo, NY 14222
Ⓟ 716.332.3134 Ⓕ 716.332.3136

Fax/Email Report to: Labresults@Siennaet.com

Client/Contact:	Joseph Lenahan	**Turn Around Time** (Bordered/Circled)
	Kideney	
Building/Location:	SUNY Erie North Campus-Kittinger	
	6205 Main St. Williamsville NY, 14221	RUSH 24 Hour 48 Hour
Job #: 3657	**Total # Samples:** 21	[72 Hour] 5 Day

PLM: x **TEM:** x **AAS:** **Other:**

Sample #				Description of Sample	Location of Sample	Notes
Date	Job	HAN	ID#			
8/7	3657	122.1	1	Gypsum Board	K123	
8/7	3657	122.1	2	Gypsum Board	K123	
8/7	3657	122.2	1	Joint Compound	K123	
8/7	3657	122.2	2	Joint Compound	K123	
8/7	3657	123.1	1	4" x 6" Ceramic Tile Grout	K167	
8/7	3657	123.1	2	4" x 6" Ceramic Tile Grout	K250	
8/7	3657	123.2	1	4" x 6" Ceramic Tile Mastic	K167	
8/7	3657	123.2	2	4" x 6" Ceramic Tile Mastic	K250	
8/7	3657	223	1	2' x 2' Small Dot and Fissured Ceiling Tile	K250	
8/7	3657	223	2	2' x 2' Small Dot and Fissured Ceiling Tile	K164	
8/7	3657	224	1	2' x 2' Big Dot , Small Dot Ceiling Tile	K167	
8/7	3657	224	2	2' x 2' Big Dot , Small Dot Ceiling Tile	K2	
8/7	3657	421	1	Mud Fitting on F/R Insulation	CSK4	
8/7	3657	421	2	Mud Fitting on F/R Insulation	CSK4	
8/7	3657	421	3	Mud Fitting on F/R Insulation	CSK2	
8/7	3657	621	1	Interior Metal Door Frame Sealant Caulk- Grey	K165	
8/7	3657	621	2	Interior Metal Door Frame Sealant Caulk- Grey	K165	
8/7	3657	622	1	Tar Coating	K302	
8/7	3657	622	2	Tar Coating	K302	
8/7	3657	623	1	Exterior Seam/Metal Frame Sealant Caulk	K302	
8/7	3657	623	2	Exterior Seam/Metal Frame Sealant Caulk	K302	

Notes:

Yes	No	
x		Negative PLM to TEM per ELAP protocols
x		Positive Stop by HAN.ID#
	x	Layered analysis is expected - Sample HAN-ID# :

RECEIVED
AUG 20 2020
KLM

Sampled By: Jesse Batz & Eric Dixon — Date: 8/3/2020

Relinquished By: Catherine Schultheis Date: 8/18/2020

Received By: Date:

Environmental Hazards Services, L.L.C.
7469 Whitepine Rd
Richmond, VA 23237
Telephone: 800.347.4010

PCB Bulk Analysis Report

Report Number: 20-08-03167

Client: Sienna Environmental
350 Elmwood Avenue
Buffalo, NY 14222-2204

Received Date: 08/21/2020
Reported Date: 08/28/2020

Project/Test Address: 3657; SUNY Erie North Campus- Kittinger; 6205 Main St Williamsville, NY 14221

Client Number: 33-5983

Fax Number: 716-332-3136

Laboratory Results

Lab Sample Number: 20-08-03167-001
Client Sample Number: 3657
Sample Matrix: Caulk
Reporting Limit (mg/kg): 0.97

Preparation Date: 08/25/2020
Analysis Date: 08/28/2020
Sample Weight (g): 1.040
Narrative ID: P1

Aroclor 1016 (mg/kg)	Aroclor 1221 (mg/kg)	Aroclor 1232 (mg/kg)	Aroclor 1242 (mg/kg)	Aroclor 1248 (mg/kg)	Aroclor 1254 (mg/kg)	Aroclor 1260 (mg/kg)	Aroclor 1262 (mg/kg)	Aroclor 1268 (mg/kg)
<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97	<0.97

Sample Narratives:

P1: The DCB recovery is 45.0% for this sample.

Preparation Method: EPA SW846 3540C
Analysis Method: EPA SW846 8082A

Reviewed By Authorized Signatory: Tasha Eaddy

Tasha Eaddy
QA/QC Clerk

Legend g = gram mg/kg = milligram per kilogram

Chain of Custody Document

SIENNA ENVIRONMENTAL TECHNOLOGIES [redacted]

20-08-03167

Fax/Email Report to: Labresults@Siennaet.com

Due Date: 08/28/2020 (Friday) AE

Client/Contact: Joseph Lenahan
Kideney

Building/Location: SUNY Erie North Campus-Kittinger
6205 Main St. Williamsville NY, 14221

RUSH 24 Hour 48 Hour 72 Hour **5 Day**

Job #: 3657 **Total # Samples:** 1

PLM: **TEM:** **AAS:** **Other:** EPA Methon 8082

Sample #				Description of Sample	Location of Sample	Notes
Date	Job	HAN	ID#			
8/7	3657	623	PCB	Exterior Seam/Metal Frame Sealant Caulk	K302	
						3167

Notes:

Yes	No	
		Negative PLM to TEM per ELAP protocols
		Positive Stop by HAN.ID#
		Layered analysis is expected - Sample HAN-ID# :

Sampled By: Jesse Batz & Eric Dixon Date: 8/3/2020

Relinquished By: Catherine Schultheis Date: 8/18/2020

Received By: KT HARRIS Katey Harris Date: 8-21-20@ 10:34

Photo #1: Kittinger Hall- HAN 123.2- 4” x 6” Ceramic Tile Mastic

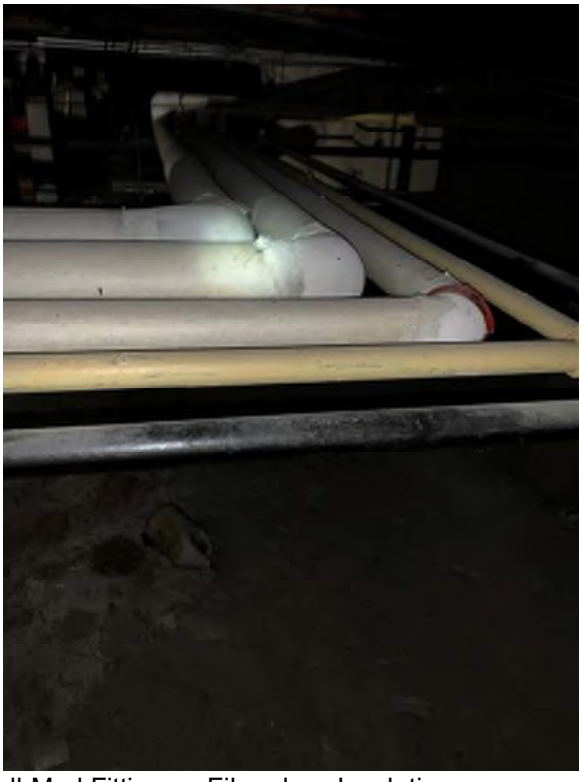


Photo #2: HAN 421- Kittinger Hall-Mud Fitting on Fiberglass Insulation