UNIVERSITY CIRCLE POLICE DEPARTMENT

Renovation

January 19, 2021

12100 Euclid Avenue

Cleveland, Ohio

Selective Demolition and Renovation to the Existing University Circle Police Department Headquarters

INSTRUCTIONS TO BIDDERS

University Circle Incorporated owns the building at 12100 Euclid Avenue, this building is subdivided by two structures – a pre-manufactured building that provides for cold storage and a vehicle maintenance facility and a single story (partial second floor) masonry and steel joist building housing the University Circle Police Department and a tenant.

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Summary Description

The work scope is to provide for selective demolition and renovation of a portion of the first floor, currently being used by the UCPD, the second floor, which was previously used by a prior tenant and will now be a part of the UCPD. There will also be a new metal stair constructed in an adjoining existing pre-manufactured building, used for storage.

- First floor to be provided with newly renovated men's restroom, women's locker room and restroom, armory, evidence intake and storage and a detective's office.
- Second floor to be provided with newly renovated women's restroom, men's locker room and restroom, multi-purpose training room and janitor's closet.
- There will be a metal stair within the adjoining storage building for an access stair to the second floor, replacing an existing stair.

SCOPE OF WORK:

1. Selective Demolition - as indicated by the construction documents and specifications.
    - Remove existing flooring and base throughout renovated area. Note: environmental report.
    - Existing doors and frames, trims and furnishings as indicated to remain and be protected for future use.
2. New construction – interior renovation as indicated by the construction documents.
3. Fire Extinguishers – existing to remain, provide for removal and replacement for new finishes
4. Stairway within the cold storage building to be removed and replaced with a metal stair and railing system as specified.
5. Plumbing to be removed and replaced as indicated by the construction documents. Existing piping to be removed to the point of being able to assure the integrity of the piping for future use.
    - Provide for jet cleaning and camera investigation to assure functional plumbing line to street.
6. HVAC – provide for new furnace, ductwork distribution and infrastructure to provide for HVAC at the area of the first floor as indicated.
7. Electrical
    - Lighting to be provided, as indicated, within the area of renovation, to be wired using existing power source as allowed.
    - Power to be provided, as indicated, within the area of renovation, to be wired using existing power source as allowed.

Work will be implemented in two phases; disciplines to be implemented are demolition and environmental remediation, general trades, electrical, plumbing and limited HVAC work. Coordination will be required for implementing the owner systems, equipment and furnishings. Owner's agents, that will be involved in the project on the owner's behalf are as follows are as follows:

OWNERS SYSTEMS AND AGENTS:

Security/Access Control - Contractor will coordinate with the owner's agent for installation of access control systems equipment and wiring by others. Contractor to coordinate doors, frames and hardware with owner's agent for installation and operation.

Communications – Contractor will coordinate with the owner's agent for installation of communications wiring by others. Boxes and conduit to accessible ceiling, as indicated to be provided by the contractor.

Fire Suppression – There is an existing active fire suppression system within the adjoining storage building. There are existing branch piping throughout the area of work that are no longer active or required by code. These are to remain in place.

HVAC – Existing systems will remain and the portion of the building being newly occupied at the first floor will have a new HVAC system, coordination with the existing systems will be limited to replacement of diffusers. Existing equipment, ductwork distribution and controls to remain and be protected.

Lockers – UCPD will be providing for lockers through a vendor for installation by this contractor. Please note the re-use of existing lockers as indicated, to be coordinated and implemented by this contractor.

- Contractor to be responsible for building a treated wood base to support the lockers as indicated. Field dimensions will be required for fabrication.

Toilet Room Paper Products – A vendor provides for both towel and soap dispensers for the UCPD. Contractor to remove existing and provide to the owner.

Window replacement – Existing window units within the metal panel envelope to be replaced with similar product by the owner. Contractor to coordinate with the work.

Roofing – UCI has been in discussions with a roofer in order to provide for roofing replacement/repairs. It is proposed that a new rooftop HVAC unit will be installed to provide for the first floor, phase I. Coordination with roofing contractor will be required and roofing work will be excluded from this contract.

- Contractor to provide for penetration and patching if the sequence of re-roofing is not at the same time.

Administration – a contract will be executed with University Circle Incorporated (UCI). Form of agreement will be American Institute of Architect Form A104 – 2017.

1. Please indicate your proposed project duration, for both Phases I and II.
2. It will also be required of the contractor to conduct bi-weekly meetings for project updates and progress reports.
3. Bidding Questions – provide for e-mail request for information from Kevin Robinette, cc: Matt Provolt.
4. Site Review and Introduction– an appointment may be scheduled with representatives of the UCPD as indicated above.

5. Permitting and Fees – permit and bidding documents will be submitted to the City of Cleveland Building Department for permit review, permit review fees to be paid by the owner. All permits to be obtained by the respective contractors and permit fees paid for by the contractor.
6. Hazardous Materials – an environmental assessment and testing evaluation has been prepared by the EA Group and is made a part of the bid documents for reference. Contractor to provide for required procedures to support demolition.
7. Site Access and Use during construction will be coordinated and facilitated by a representative of the UCPD.
    - Note: the existing cold storage building may be used for storage or staging as coordinated with the owner.
    - Parking at the site is available for the contractor to be determined in coordination with the owner.

Bid Documents and Proposal –

1. Existing documents for a renovation project, for an adjoining portion of the work will be Mde available for reference. for reference.
2. Performance Specification sections:
    - 024119 Selective Demolition
    - 055119 Metal Grating Stairs
    - 055213 Pipe and Tube Railings
    - 102113 Metal Toilet Compartments
3. Receipt of bids – bids to be received by digital transmission to the architect and owners representative, Matt Provolt. Receipt requested prior to March 3, 2022 at 3:00 PM.
4. Form of proposal – to be at the contractor's discretion using format, terms and conditions as appropriate for a complete bid. Any clarifications or stipulations to be provided for response.
5. Form of Agreement – American Institute of Architects Form A104 – 2017, to be prepared by the architect, on behalf of the Owner and Contractor.

Please contact me with any questions or concerns.

Thank you for your interest in this project.

Sincerely.

Kevin C. Robinette, AIA

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SECTION 024119 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Demolition and removal of selected portions of building or structure.
2. Demolition and removal of selected site elements.

1.2 DEFINITIONS

A. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and salvaged or removed and reinstalled.

B. Existing to Remain: Existing items of construction that are not to be permanently removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

1.3 PREINSTALLATION MEETINGS

A. Pre-demolition Conference: Conduct conference at Project site, for both Phases I & II

1.4 FIELD CONDITIONS

A. Owner will occupy portions of building immediately adjacent to selective demolition area. Conduct selective demolition so Owner's operations will not be disrupted as much as practical as required for the work. Coordinate and provide prior notice of any anticipated disruption.

B. Notify Architect of discrepancies between existing conditions and Drawings before proceeding with selective demolition.

C. Hazardous Materials: Hazardous materials are present in buildings and structures to be selectively demolished. A report on the presence of hazardous materials is on file for review and use. Examine report to become aware of locations where hazardous materials are present.
1. Landfill Records: Indicate receipt and acceptance of hazardous wastes by a landfill facility licensed to accept hazardous wastes.
2. Provide for removal and disposal of proposals as recommended with the report and dispose of per governmental requirements.

D. Utility Service: Maintain existing utilities indicated to remain in service and protect them against damage during selective demolition operations.

1. Maintain fire-protection facilities in service during selective demolition operations.
2. Owner to provide for payment of all utility use on site.
3. As a part of the plumbing demolition, provide for jet cleaning of all sanitary piping to the street.

PART 2 - PRODUCTS

2.1 PEFORMANCE REQUIREMENTS

A. Standards: Comply with ANSI/ASSE A10.6 and NFPA 241.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Verify that utilities have been disconnected and capped before starting selective demolition operations.

B. Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.

C. When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect.

D. Survey of Existing Conditions: Record existing conditions by use of preconstruction photographs.

3.2 UTILITY SERVICES AND MECHANICAL/ELECTRICAL SYSTEMS

A. Existing Services/Systems to Remain: Maintain services/systems indicated to remain and protect them against damage.

B. Existing Services/Systems to Be Removed, Relocated, or Abandoned: Locate, identify, disconnect, and seal or cap off indicated utility services and mechanical/electrical systems serving areas to be selectively demolished.

1. If services/systems are required to be removed, relocated, or abandoned, provide temporary services/systems that bypass area of selective demolition and that maintain continuity of services/systems to other parts of building.
2. Disconnect, demolish, and remove ~~fire-suppression systems~~ (Note: existing FS piping, exposed and within ceiling cavities is inoperable, its removal is not a part of this agreement) electrical, plumbing, and HVAC systems, equipment, and components indicated to be removed as a part of the required demolition for the new work indicated.

    a. Piping to Be Removed: Remove portion of piping indicated to be removed and cap or plug remaining piping with same or compatible piping material.
    b. Piping to Be Abandoned in Place: Drain piping and cap or plug piping with same or compatible piping material.
    c. Equipment to Be Removed: Disconnect and cap services and remove equipment.
    d. Equipment to Be Removed and Reinstalled: Disconnect and cap services and remove, clean, and store equipment; when appropriate, reinstall, reconnect, and make equipment operational.

e. Equipment to Be Removed and Salvaged: Disconnect and cap services and remove equipment and deliver to Owner.

3.3 PREPARATION

A. Site Access and Temporary Controls: Conduct selective demolition and debris-removal operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.

B. Temporary Facilities: Provide temporary barricades and other protection required to prevent injury to people and damage to adjacent buildings and facilities to remain.

C. Temporary Shoring: Provide and maintain shoring, bracing, and structural supports as required to preserve stability and prevent movement, settlement, or collapse of construction and finishes to remain, and to prevent unexpected or uncontrolled movement or collapse of construction being demolished.

3.4 SELECTIVE DEMOLITION, GENERAL

A. General: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:

1. Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction. Use hand tools or small power tools designed for sawing or grinding, not hammering and chopping, to minimize disturbance of adjacent surfaces. Temporarily cover openings to remain.
2. Cut or drill from the exposed or finished side into concealed surfaces to avoid marring existing finished surfaces.
3. Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain fire watch and portable fire-suppression devices during flame-cutting operations.
4. Locate selective demolition equipment and remove debris and materials so as not to impose excessive loads on supporting walls, floors, or framing.
5. Dispose of demolished items and materials promptly.

B. Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.

3.5 DISPOSAL OF DEMOLISHED MATERIALS

A. General: Except for items or materials indicated to be recycled, reused, salvaged, reinstalled, or otherwise indicated to remain Owner's property, remove demolished materials from Project site and legally dispose of them in an EPA-approved landfill.

1. Do not allow demolished materials to accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
3. Remove debris from elevated portions of building by chute, hoist, or other device that will convey debris to grade level in a controlled descent.

B. Burning: Do not burn demolished materials.

C. Disposal: Transport demolished materials off Owner's property and legally dispose of them.

3.6 CLEANING

A. Clean adjacent areas of dust, dirt, and debris caused by selective demolition operations. Return adjacent areas to condition existing before selective demolition operations began.

END OF SECTION 024119

SECTION 055119 - METAL GRATING STAIRS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes industrial-type, straight-run stairs with steel-grating treads and railings attached to metal grating stairs.

1.2 ACTION SUBMITTALS

A. Product Data: For metal grating stairs.

B. Shop Drawings: Include plans, elevations, sections, details, and attachments.

C. Delegated-Design Submittal: For stairs, including analysis data signed and sealed by the qualified professional engineer, registered in the State of project location, responsible for their preparation.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design stairs and railings.

B. Structural Performance of Stairs: Metal stairs shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:

1. Uniform Load: 100 lbf/sq. ft..
2. Concentrated Load: 300 lbf applied on an area of 4 sq. in..
3. Uniform and concentrated loads need not be assumed to act concurrently.
4. Stair Framing: Capable of withstanding stresses resulting from railing loads in addition to loads specified above.

2.2 METALS

A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For components exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.

B. Steel Bars for Grating Treads: ASTM A 36/A 36M or steel strip, ASTM A 1011/A 1011M or ASTM A 1018/A 1018M.

C. Wire Rod for Grating Crossbars: ASTM A 510.

D. Cast-Abrasive Nosings: Cast iron, with an integral abrasive, as-cast finish consisting of aluminum oxide, silicon carbide, or a combination of both.

2.3 FASTENERS

A. Provide zinc-plated fasteners with coating complying with ASTM B 633 or ASTM F 1941, Class Fe/Zn 12 for exterior use, and Class Fe/Zn 5 where built into exterior walls. Select fasteners for type, grade, and class required.

2.4 MISCELLANEOUS MATERIALS

A. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.

2.5 FABRICATION, GENERAL

A. Provide complete stair assemblies, including metal framing, hangers, clips, brackets, bearing plates, and other components necessary to support and anchor stairs and platforms on supporting structure.

1. Join components by welding unless otherwise indicated.
2. Use connections that maintain structural value of joined pieces.

B. Weld connections to comply with the following:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. Weld exposed corners and seams continuously unless otherwise indicated.

C. Fabricate joints that are exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.

2.6 STEEL-FRAMED STAIRS

A. NAAMM Stair Standard: Comply with "Recommended Voluntary Minimum Standards for Fixed Metal Stairs" in NAAMM AMP 510, "Metal Stairs Manual," Industrial Class, unless more stringent requirements are indicated.

B. Metal Bar-Grating Stairs: Form treads and platforms to configurations shown from metal bar grating; fabricate to comply with NAAMM MBG 531, "Metal Bar Grating Manual."

1. Surface: Serrated.
2. Fabricate grating treads with cast-abrasive nosing and with steel angle or steel plate carrier at each end for stringer connections. Secure treads to stringers with bolts.

C. The existing stairway and landing platform configuration is made a part of this section for preparation of design and fabrication documentation.

2.7 STAIR RAILINGS

A. Comply with applicable requirements in Section 055213 "Pipe and Tube Railings."

1. Connect posts to stair framing by direct welding unless otherwise indicated.

2.8 FINISHES

A. Finish metal stairs after assembly.

B. Galvanizing: Hot-dip galvanize items as indicated to comply with ASTM A 153/A 153M for steel and iron hardware and with ASTM A 123/A 123M for other steel and iron products.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal stairs. Set units accurately in location, alignment, and elevation, measured from established lines and levels and free of rack.

B. Field Welding: Comply with requirements for welding in "Fabrication, General" Article.

3.2 ADJUSTING AND CLEANING

A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.

B. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780/A 780M.

END OF SECTION 055119

SECTION 055213 - PIPE AND TUBE RAILINGS

PART 1 - GENERAL

1.1 ACTION SUBMITTALS

A. Product Data: For the following:

1. Railing brackets.
2. Grout, anchoring cement, and paint products.

B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.

C. Samples: For each type of exposed finish required.

D. Delegated-Design Submittal: For railings, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design railings, including attachment to building construction.

B. Structural Performance: Railings, including attachment to building construction, shall withstand the effects of gravity loads and the following loads and stresses within limits and under conditions indicated:

1. Handrails and Top Rails of Guards:

a. Uniform load of 50 lbf/ ft. applied in any direction.
b. Concentrated load of 200 lbf applied in any direction.
c. Uniform and concentrated loads need not be assumed to act concurrently.

2. Infill of Guards:

a. Concentrated load of 50 lbf applied horizontally on an area of 1 sq. ft..
b. Infill load and other loads need not be assumed to act concurrently.

2.2 METALS, GENERAL

A. Brackets, Flanges, and Anchors: Cast or formed metal of same type of material and finish as supported rails unless otherwise indicated.

1. Provide type of bracket with flange tapped for concealed anchorage to threaded hanger bolt and that provides 1-1/2-inch clearance from inside face of handrail to finished wall surface.

2.3 FASTENERS

A. General: Provide the following:

1. Ungalvanized-Steel Railings: Plated steel fasteners complying with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5 for zinc coating.

B. Post-Installed Anchors: Torque-controlled expansion anchors or chemical anchors capable of sustaining, without failure, a load equal to 6 times the load imposed when installed in unit masonry and 4 times the load imposed when installed in concrete, as determined by testing according to ASTM E 488/E 488M, conducted by a qualified independent testing agency.

1. Material for Interior Locations: Carbon-steel components zinc-plated to comply with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, unless otherwise indicated.

2.4 MISCELLANEOUS MATERIALS

A. Etching Cleaner for Galvanized Metal: Complying with MPI#25.

B. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.

C. Shop Primers: Provide primers that comply with Section 099113 "Exterior Painting" and Section 099123 "Interior Painting."

D. Epoxy Intermediate Coat: Complying with MPI #77 and compatible with primer and topcoat.

1. Manufacturers: Subject to compliance with requirements, provide products by the following:
2. Basis-of-Design Product: Subject to compliance with requirements, provide [product indicated on Drawings] <Insert manufacturer's name; product name or designation> or comparable product by one of the following:

a. Benjamin Moore & Co.
b. Dulux
c. Glidden Professional
d. Pratt & Lambert
e. Sherwin-Williams

E. Polyurethane Topcoat: Complying with MPI #72 and compatible with undercoat.

F. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D 1187/D 1187M.

G. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107/C 1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Set railings accurately in location, alignment, and elevation; measured from established lines and levels and free of rack.

1. Do not weld, cut, or abrade surfaces of railing components that are coated or finished after fabrication and that are intended for field connection by mechanical or other means without further cutting or fitting.
2. Set posts plumb within a tolerance of 1/16 inch in 3 feet.
3. Align rails so variations from level for horizontal members and variations from parallel with rake of steps and ramps for sloping members do not exceed 1/4 inch in 12 feet.

B. Control of Corrosion: Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.

1. Coat, with a heavy coat of bituminous paint, concealed surfaces of aluminum that are in contact with grout, concrete, masonry, wood, or dissimilar metals.

3.2 ANCHORING POSTS

A. Use metal sleeves preset and anchored into concrete for installing posts. After posts are inserted into sleeves, fill annular space between post and sleeve with nonshrink, nonmetallic grout or anchoring cement, mixed and placed to comply with anchoring material manufacturer's written instructions.

3.3 ATTACHING RAILINGS

A. Attach railings to wall with wall brackets, except where end flanges are used. Locate brackets as indicated or, if not indicated, at spacing required to support structural loads.

3.4 ADJUSTING AND CLEANING

A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop painting to comply with SSPC-PA 1 requirements for touching up shop-painted surfaces.

B. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas, and repair galvanizing to comply with ASTM A 780/A 780M.

SECTION 102113.13 - METAL TOILET COMPARTMENTS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes painted steel toilet compartments configured as toilet enclosures and urinal screens.

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For toilet compartments. Include plans, elevations, sections, and attachment details.

C. Samples for each type of toilet compartment material indicated.

1.3 INFORMATIONAL SUBMITTALS

A. Product certificates.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance data.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Regulatory Requirements: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines for Buildings and Facilities and ICC A117.1 for toilet compartments designated as accessible.

2.2 PAINTED STEEL TOILET COMPARTMENTS

A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

1. Bobrick
2. Bradley Corporation; Mills Partitions
3. Global Steel Products Corp.

B. Toilet-Enclosure Style: Entrance-Screen Style: Overhead braced / Floor anchored.

C. Urinal-Screen Style: Entrance-Screen Style: Overhead braced / Floor anchored.

D. Door, Panel, and Pilaster Construction: Seamless, metal facing sheets pressure laminated to core material; with continuous, interlocking molding strip or lapped-and-formed edge closures; corners secured by welding or clips and exposed welds ground smooth. Provide with no-sightline system. Exposed surfaces shall be free of pitting, seam marks, roller marks, stains, discolorations, telegraphing of core material, or other imperfections.

1. Core Material: Manufacturer's standard sound-deadening honeycomb of resin-impregnated kraft paper in thickness required to provide finished thickness of 1 inch for doors and panels and 1-1/4 inches for pilasters.
2. Grab-Bar Reinforcement: Provide concealed internal reinforcement for grab bars mounted on units of size and material adequate for panel to withstand applied downward load on grab bar of at least 250 lbf (1112 N), when tested according to ASTM F 446, without deformation of panel.
3. Tapping Reinforcement: Provide concealed reinforcement for tapping (threading) at locations where machine screws are used for attaching items to units.

E. Facing Sheets and Closures: Electrolytically coated steel [hot-dip galvanized-steel] sheet with nominal base-metal (uncoated) thicknesses as follows:

1. Panels: Manufacturer's standard thickness, but not less than 0.030 inch (0.76 mm).
2. Doors: Manufacturer's standard thickness, but not less than 0.030 inch.

F. Pilaster Shoes and Sleeves (Caps): Stainless-steel sheet, not less than 0.031-inch (0.79-mm) nominal thickness and 3 inches (76 mm) high, finished to match hardware.

G. Urinal-Screen Post: Manufacturer's standard post design of material matching the thickness and construction of pilasters; with shoe and sleeve (cap) matching that on the pilaster.

H. Steel Sheet Finish: Manufacturer's standard baked-on finish.

1. Color: As selected by Architect from manufacturer's full range.

a. Allow for application of one color in each room.

2.3 HARDWARE AND ACCESSORIES

A. Hardware and Accessories: Manufacturer's standard operating hardware and accessories.

1. Material: Clear-anodized aluminum.
2. Provide units that comply with regulatory requirements for accessibility at compartments designated as accessible.

B. Hardware and Accessories: Manufacturer's heavy-duty stainless-steel operating hardware and accessories.

1. Provide units that comply with regulatory requirements for accessibility at compartments designated as accessible. Including coat hooks and paddle type latch handle.

C. Overhead Bracing: Manufacturer's standard continuous, extruded-aluminum head rail with anti-grip profile and in manufacturer's standard finish.

D. Anchorages and Fasteners: Manufacturer's standard exposed fasteners of stainless steel, finished to match the items they are securing, with theft-resistant-type heads. Provide sex-type bolts for through-bolt applications. For concealed anchors, use stainless steel, hot-dip galvanized steel, or other rust-resistant, protective-coated steel compatible with related materials.

2.4 FABRICATION

A. Fabrication, General: Fabricate toilet compartment components to sizes indicated. Coordinate requirements and provide cutouts for through-partition toilet accessories, and solid blocking within panel where required for attachment of toilet accessories.

B. Floor-and-Ceiling-Anchored Units: Provide manufacturer's standard corrosion-resistant anchoring assemblies with leveling adjustment at tops and bottoms of pilasters. Provide shoes and sleeves (caps) at pilasters to conceal anchorage.

C. Door Size and Swings: Unless otherwise indicated, provide 24-inch- wide, in-swinging doors for standard toilet compartments and 36-inch- wide, out-swinging doors with a minimum 32-inch- wide, clear opening for compartments designated as accessible.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General: Comply with manufacturer's written installation instructions. Install units rigid, straight, level, and plumb. Secure units in position indicated with manufacturer's recommended anchoring devices.

1. Maximum Clearances:

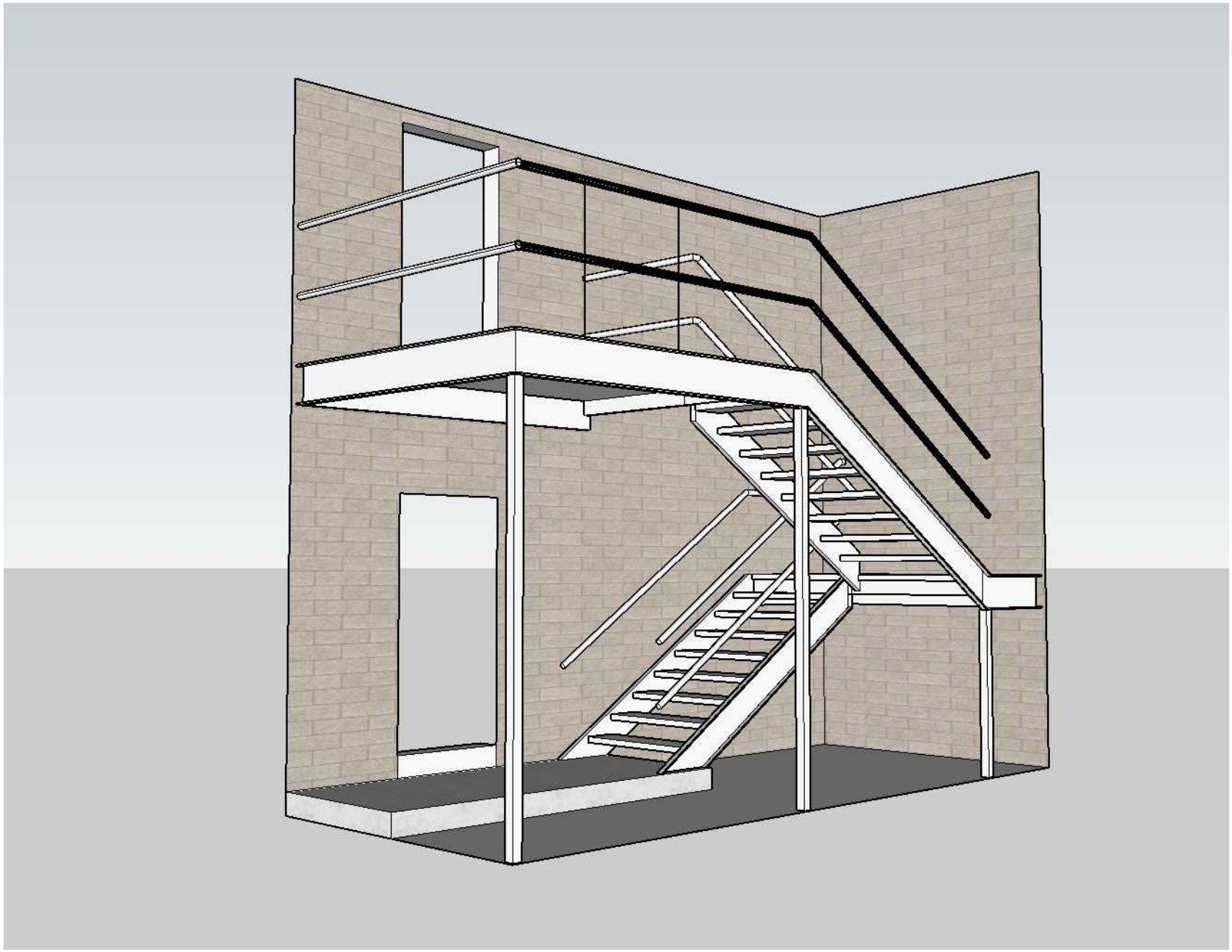
a. Pilasters and Panels: 1/2 inch.
b. Panels and Walls: 1 inch.
c. Locate wall brackets so holes for wall anchors occur in masonry or tile joints.
d. Align brackets at pilasters with brackets at walls.

B. Coordinate location of blocking and other wall reinforcement built-in to framed walls with other trades.

3.2 ADJUSTING

A. Hardware Adjustment: Adjust and lubricate hardware according to hardware manufacturer's written instructions for proper operation. Set hinges on in-swinging doors to hold doors open approximately 30 degrees from closed position when unlatched. Set hinges on out-swinging doors to return doors to fully closed position.

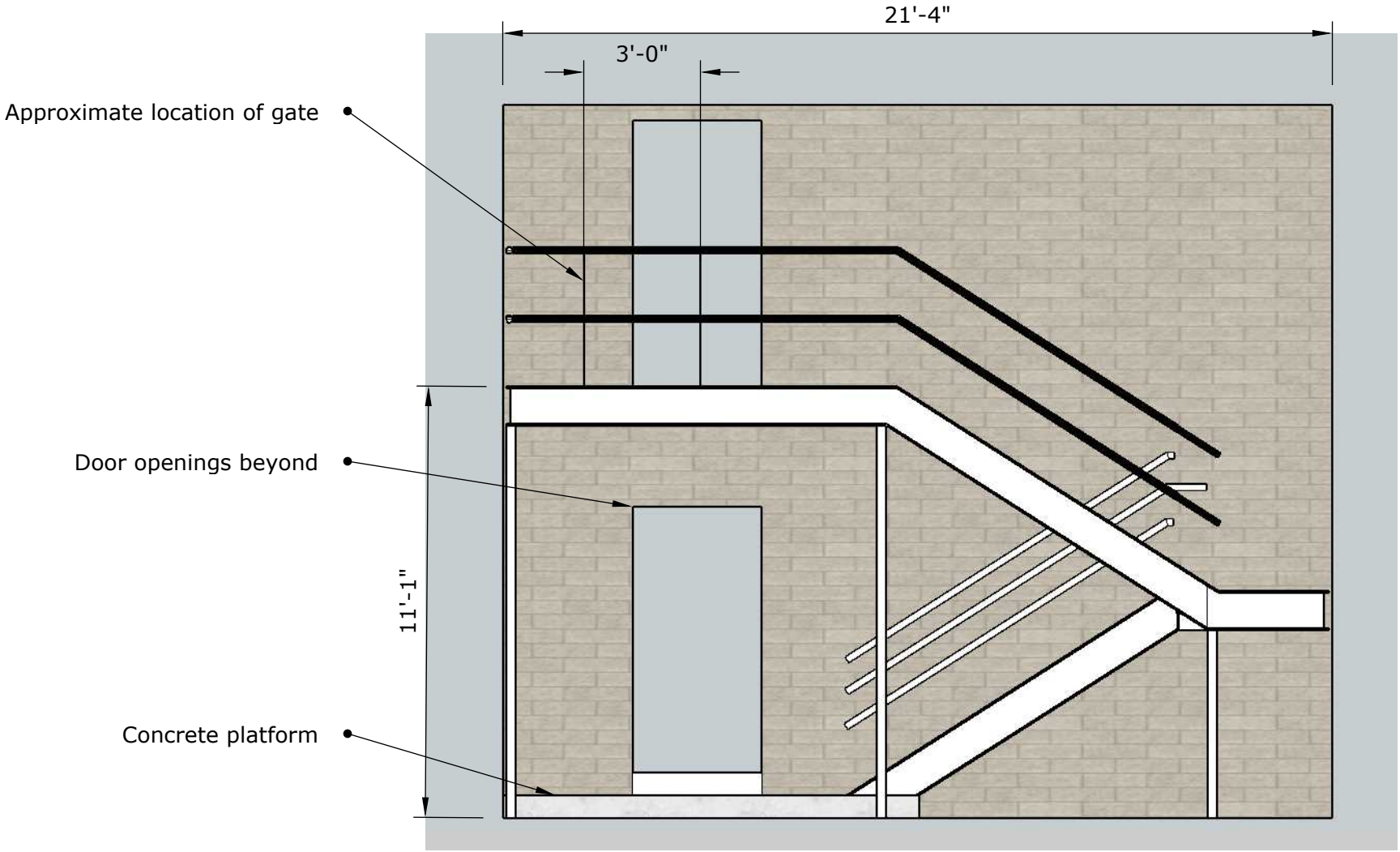
END OF SECTION 102113.13



University Circle Police Department

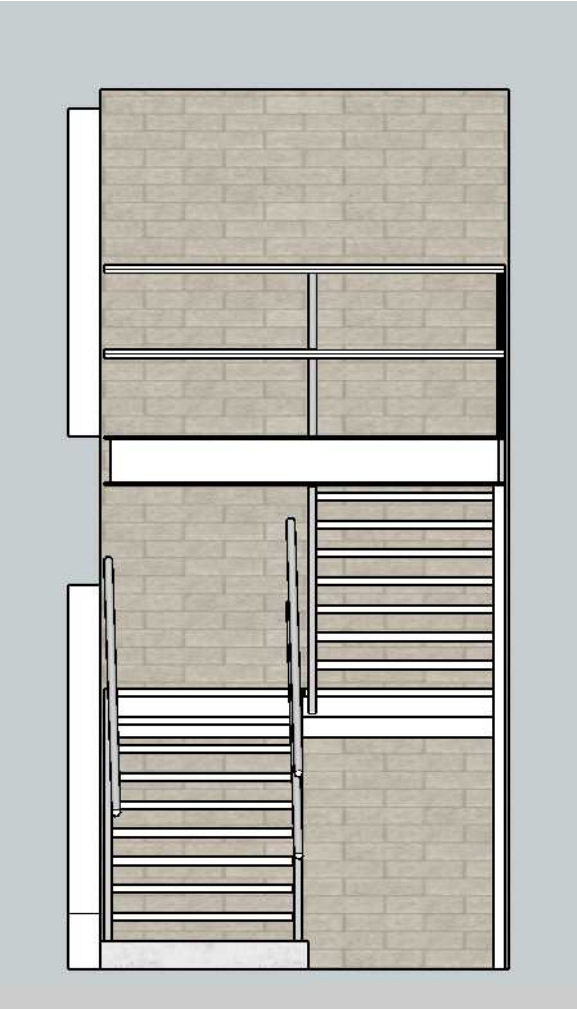
New metal stair notes:

1. New metal stair and railings to be provided based upon performance specification sections.
2. Remove and dispose of the existing stair and wood platfrom framing.
3. Contractor to field verify existing conditions and prepare shop drawings for review.
    - Contractor to verify existing systems/infrastructure to remain.
        - Electrical panels at the north wall.
        - Fire suppression riser.
4. Existing south wall, wood framed and gypsum board clad to remain, remove the existing stringer at the wall.
    - Provide for gypsum board laminated over existing in order to provide for new paint finish, to a height of 7'+- above upper landing.
    - Existing fencing and posts supporting wood framed mezzanine to remain.
5. Concrete pad (6" high) to be provided at the first floor to provide access to the support area doorway and support the lower flight of the stair. Approximate size is 4' – 3" wide X 11' – 4" long.
    - Scarify existing concrete slab as required.
    - Provide for W 10 X 10 #6/6 WWF at center of pad.
6. Support provided by securing to perimeter masonry walls at two sides (north and east) with posts as required at landings.
7. Upper landing/south side will be adjoining an existing wood framed mezzanine to remain. Structural support of the existing and new to be separate.
8. Railings are shown for general configuration, provide for code compliant heights and components.
9. Provide for a gate from the new stair to the existing mezzanine for access, location as indicated.
10. Two 4' X 1' LED vapor proof lighting fixtures to be provided at both landings. Manual switching at upper and lower levels.



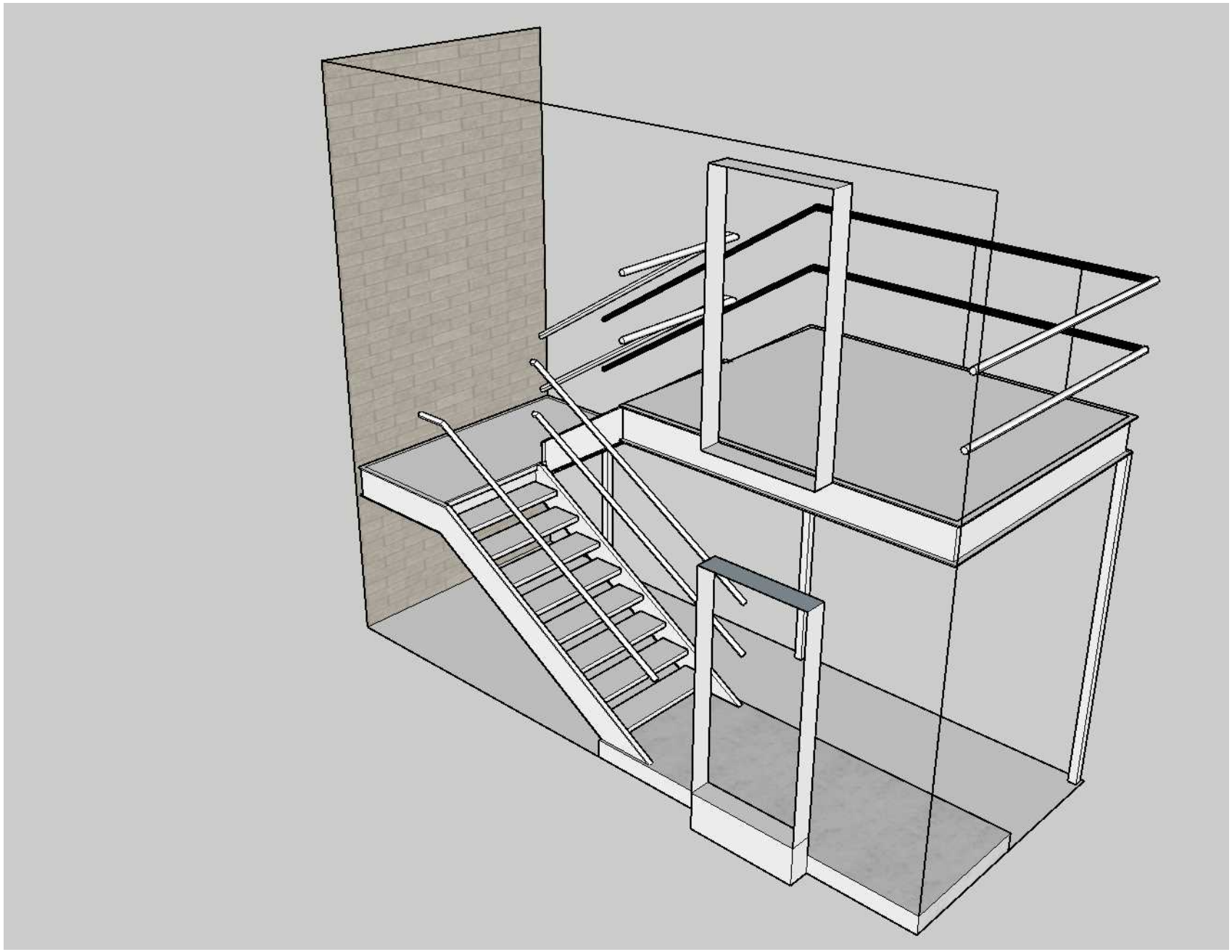
SOUTH ELEVATION - SCALE - 1/4" = 1'

Please note existing wood frame mezzanine in foreground



WEST ELEVATION - SCALE - 1/4" = 1'

Please note existing wood frame mezzanine at right.



EA GROUP

Environmental Analysis and Management

December 11, 2021

Mr. Kevin Robinette
Kevin Robinette Architects, LLC
2091 South Belvoir Boulevard
South Euclid, Ohio 44121

RE: **Pre-Renovation Hazardous Materials Assessment**
University Circle Police Department, 12100 Euclid Avenue, Cleveland, Ohio
OH44458

Description of Work

EA Group, Mentor, Ohio was contracted by Kevin Robinette Architects, LLC to conduct a pre-renovation hazardous materials assessment in support of a renovation project at University Circle Police Department at 12100 Euclid Avenue in Cleveland, Ohio. The assessment activities included a survey for asbestos-containing materials (ACMs); sampling and analysis of paints on representative surfaces to determine lead content; an inventory of non-incandescent lighting and other "universal waste"-type materials, regulated refrigerants; and a preliminary mold inspection. This report provides the results of the pre-renovation hazardous materials assessment.

Asbestos Survey

EA Group's licensed Asbestos Hazard Evaluation Specialist Michael Kovell, ES34424, inspected the building, developed a sampling strategy, and procured bulk samples of suspect ACM on November 24, 2021. Homogeneous Groups of suspect ACM are identified on the *Asbestos Inspection Data Sheet* forms in Appendix A. Classification of any positively identified ACM has been made per National Emission Standard for Hazardous Air Pollutants (NESHAP) regulations, with additional notations for compliance with Occupational Safety and Health Administration (OSHA) regulations, if and where applicable. Room/area designations and general sampling locations for the survey are illustrated on the schematics in Appendix A.

Objective and Limitations of the Inspection

The objective of this survey was to identify and sample suspect ACM at University Circle Police Department at 12100 Euclid Avenue in Cleveland, Ohio, pursuant to NESHAP and OSHA regulations.

GENERAL LIMITATIONS

1. EA Group cannot guarantee that all ACM has been identified by this assessment, as additional asbestos materials, not previously identified or quantified, are frequently encountered during renovation or demolition.

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2. Actual quantities of asbestos material may vary from any estimates provided in EA Group's report due to identification of additional materials and difficulties in quantifying hidden or inaccessible materials.
3. Prior to demolition or renovation of any structure or equipment, suspect materials that were previously inaccessible or excluded from sampling should be sampled and analyzed for asbestos.

Asbestos Analysis

The bulk samples were analyzed by polarized light microscopy for asbestos content at or through the Laboratory Division of EA Group, which is accredited by the National Institute of Standards and Technology – National Voluntary Laboratory Accreditation Program. The United States Environmental Protection Agency requires all materials containing greater than one percent asbestos by weight to be considered asbestos-containing materials. Composite or layered analyses were performed, depending on the nature of a material. If an initial analysis indicated less than 10% asbestos, additional analysis (point-counting) was conducted. In all cases that at least one sample from a homogeneous group [Group] was determined to be ACM, the Group as a whole is considered ACM regardless of the results for any other samples from that Group. Analytical results are provided in Appendix B.

Results of Asbestos Analysis

The materials that were sampled as suspect and were determined to contain regulated amounts of asbestos are identified in Table 1, which also include materials determined to be non-ACM, at least by EPA definition.

It is noted that, although the of floor tile components for Groups G and J were determined to be non-ACM, the mastic components were confirmed ACM. For abatement/removal purposes, the Groups as a whole are considered ACM, as the asbestos-containing mastic will likely adhere to the floor tile components.

It should also be noted that the black mastic of Group E was adhered to the carpeting. Because the mastic component of Group E was found to be non-ACM, the carpeting should be treated as non-ACM.

Estimated removal costs for the identified and assumed ACMs, based on currently known or estimated quantities and assuming all materials will be removed, are provided in Table 2, attached.

Any activities that involve the handling or disturbance of ACM should be carried out by a licensed abatement contractor or other appropriately trained personnel in accordance with all applicable regulations. All documentation associated with the samples, including this report, should be retained for future reference.

Paint Chip Sampling of Suspect Lead-Based Paint

A total of five representative painted surfaces were sampled for lead content analysis. This was not a comprehensive mapping of all painted surfaces, and was limited to sampling and analysis of representative painted components. Locations and components sampled are identified in Table 3, attached. Each sample was placed in an individual 4-mil resealable plastic bag, given a unique sample identification number, and then transported to the Laboratory Division of EA Group for analysis.

Paint Chip Sample Analysis

Each sample was analyzed in accordance with U.S. EPA SW846 Method 6010B for total lead. The results of the analysis are summarized in Table 3, attached, and detailed in the Laboratory Analytical Report in Appendix B.

Results

The U.S. EPA defines paint that contains more than 5000 milligrams per kilogram (mg/kg) [equivalent to parts per million (ppm)] of lead as *lead-based paint* (LBP). The Consumer Product Safety Act "Ban of Lead-Containing Paint and Certain Consumer Products Bearing Lead-Based Paint" defines paint that contains more than 600 mg/kg as lead-containing paint. OSHA regulates potential employee exposure to lead, regardless of the concentration in paint.

As shown in Table 3, two of the samples contained detectable (quantifiable) concentrations of lead, both not at concentrations defining them as LBP or lead-containing paint. The information on these paints should be provided to any contractors who will be disturbing the painted surfaces coated with these paints so they can conform with applicable OSHA regulations.

Non-Incandescent Lighting, "Universal Waste" Materials, and Refrigerants

The renovation areas of the building were inspected for various universal waste-type materials that may need to be addressed prior to or as part of renovation activities. These consisted of non-incandescent lighting fixtures (fluorescent lamps and potential ballasts); suspect mercury-containing equipment [MCE] (e.g., thermostats, switches); emergency lighting/exit signs, which typically house lead-containing rechargeable batteries [gel cells, sealed lead-acid]; and, refrigerant units (e.g., drinking fountains) that may contain regulated chlorofluorocarbon (CFC) refrigerant. Commercial

entities that can manage or assist with managing these types of materials may be found at the new/revised Ohio EPA website "https://recyclesearch.com/profile/ohioepa-recycling-directory".

A total of 176 four-foot lamps, two U-Lamps, and two compact fluorescent lamps were noted, with approximately 88 ballasts, which may or may not contain polychlorinated biphenyls (PCBs). If to be removed, these should all be provided for reclamation because of the mercury in the lamps and possible PCBs in the ballasts.

No mercury-containing equipment (MCE) was observed.

Four exit signs and three emergency lights were noted. If these are to be disposed, they would need to be provided for reclamation.

Four window air-conditioning units (one each in Mechanic Office, Detective Office, Vestibule, and Maintenance Office) and one small refrigerator (located in the Entry) were noted, which may contain regulated CFC refrigerant that would require special handling (extraction of CFCs) if the items are to be disposed.

Preliminary Mold Inspection

The building was inspected for obvious signs of water damage, water intrusion and/or the presence of mold, none of which was observed.

If you have any questions or concerns regarding the above information, please contact the undersigned. Thank you for consulting EA Group.

Sincerely,

EA Group

Timothy S. Bowen,
Vice President/Technical Director

Michael Kowell,
ES34424

Table 1 Summary of Results - University Circle Police Department, Cleveland, Ohio

Group	ID # OH44458	MATERIAL DESCRIPTION	Material Type	RESULT
A	01	2'x4' Ceiling Panel; Pockmark, Pinhole	M	0
A	02	2'x4' Ceiling Panel; Pockmark, Pinhole	M	0
B	03	Drywall System	M/NF2	0
B	04	Drywall System	M/NF2	0
C	05	1'x1' Ceiling Tile & mastic; Perforated	M	0
C	06	1'x1' Ceiling Tile & mastic; Perforated	M	0
D	07	Carpet Mastic; Yellow	M/NF1	0
D	08	Carpet Mastic; Yellow	M/NF1	0
E	09	9"x9" Floor Tile & mastic; Green w/ black	M/NF1	**[+],B[FT]**
E	10	9"x9" Floor Tile & mastic; Green w/ black	M/NF1	0*
F	11	Sink Bottom Coating; White	M/NF2	0
F	12	Sink Bottom Coating; White	M/NF2	0
G	13	12"x12" Floor Tile & mastic; Off-White w/ beige	M/NF1	**[+],B[M]**
G	14	12"x12" Floor Tile & mastic; Off-White w/ beige	M/NF1	0*
H	15	4" Cove Base & mastic; White	M/NF1	0
H	16	4" Cove Base & mastic; White	M/NF1	0
I	17	Drywall System; Swirl Finish	M/NF2	0
I	18	Drywall System; Swirl Finish	M/NF2	0
J	19	12"x12" Floor Tile & mastic; Gray	M/NF1	0,B[M]
J	20	12"x12" Floor Tile & mastic; Gray	M/NF1	**[+],B[M]**
K	21	4" Cove Base & mastic; Gray	M/NF1	0
K	22	4" Cove Base & mastic; Gray	M/NF1	0
L	23	Drywall System	M/NF2	0
L	24	Drywall System	M/NF2	0
M	25	Drywall System; Stipple Texture	M/NF2	0
M	26	Drywall System; Stipple Texture	M/NF2	0
N	27	12"x12" Floor Tile & mastic; Black w/ white	M/NF1	0
N	28	12"x12" Floor Tile & mastic; Black w/ white	M/NF1	0
O	29	4" Cove Base & mastic; Black	M/NF1	0
O	30	4" Cove Base & mastic; Black	M/NF1	0
P	31	12"x12" Floor Tile & mastic; Beige w/ brown streaks	M/NF1	0
P	32	12"x12" Floor Tile & mastic; Beige w/ brown streaks	M/NF1	0
Q	33	4" Cove Base & mastic; Brown	M/NF1	0
Q	34	4" Cove Base & mastic; Brown	M/NF1	0
R	35	Drywall System	M/NF2	0
R	36	Drywall System	M/NF2	0
S	37	6" Cove Base & mastic; Beige	M/NF1	0
S	38	6" Cove Base & mastic; Beige	M/NF1	0
T	39	Stair Tread & mastic; Beige	M/NF2	0
T	40	Stair Tread & mastic; Beige	M/NF2	0

Table 1 Summary of Results - University Circle Police Department, Cleveland, Ohio

Group	ID # OH44458	MATERIAL DESCRIPTION	Material Type	RESULT
U	41	12"x12" Floor Tile & mastic; Light Blue	M/NF1	0
U	42	12"x12" Floor Tile & mastic; Light Blue	M/NF1	0
V	43	2'x4' Ceiling Panel; Large Pockmark, Pinhole	M	0
V	44	2'x4' Ceiling Panel; Large Pockmark, Pinhole	M	0
W	45	2'x4' Ceiling Panel; Fissure, Pinhole	M	0
W	46	2'x4' Ceiling Panel; Fissure, Pinhole	M	0
X	47	Duct Sealant; Beige	M/NF2	0
X	48	Duct Sealant; Beige	M/NF2	0
Y	49	1'x2' Ceiling Tile & mastic; Perforated	M	0
Y	50	1'x2' Ceiling Tile & mastic; Perforated	M	0
Z	51	12"x12" Floor Tile & mastic; Gray w/ brown & white	M/NF1	0
Z	52	12"x12" Floor Tile & mastic; Gray w/ brown & white	M/NF1	0

Group = Homogeneous Group identification

Material Type: S = Surfacing
T = Thermal System Insulation
M = Miscellaneous
NF1 = Non-Friable Category I
NF2 = Non-Friable Category II

Result: 0 = non-ACM
[+] = ACM
B = verified by layering & point-counting
[+][FT] = Floor Tile ACM; Mastic non-ACM
[+][M] = Floor Tile non-ACM; Mastic ACM
(Group as a whole considered ACM for removal purposes)
0,B = trace asbestos; non-ACM by EPA but OSHA may apply
0,B[M] = trace asbestos in mastic layer, none in floor tile or ceiling tile
0* = ACM component for Group not analyzed; remaining layer(s)/component(s) verified non-ACM

Table 2. Estimated Cost for Removal of Known or Assumed ACMs
Kevin Robinette Architects, LLC
University Circle Police Department, Cleveland, Ohio

[See NOTE regarding cost estimates]

Category I Non-Friable[1]	H.G.	Units	Estimated Cost Range
9"x9" Floor Tile & mastic; Green w/ black	E	1,945 SF	$1,900 - $6,000
12"x12" Floor Tile & mastic; Off-White w/ beige	G	80 SF	$80 - $240
12"x12" Floor Tile & mastic; Gray	J	440 SF	$440 - $1,320
		Total	**$2,400 - $7,600**

H.G. = homogeneous group
RACM = Regulated ACM, by definition
[1] = specific material removal technique may exclude from classification as RACM

NOTE: Unit cost ranges for various materials are based on known historical bidding results. Unit costs and estimated cost totals in this table are estimates only, and do not represent project specific cost estimates.

Table 3. Summary of Paint Chip Sample Analysis for Lead
Kevin Robinette Architects, LLC
University Circle Police Department, Cleveland, Ohio

November 24, 2021 Sampling

Sample ID	Location	Component	Color	Lead Content
112421- 01 Pb	Second Floor; Multi-Purpose Room	Drywall, Wall	White	31.7
112421- 02 Pb		Metal Door Frame	Peach	< 25
112421- 03 Pb	First Floor; Men's Restroom	Drywall, Wall	Beige	< 25
112421- 04 Pb	First Floor; Gym	Drywall, Wall	Light Blue	< 25
112421- 05 Pb	First Floor; Mechanic Office	Metal Door Frame	Gray	27.7

Results expressed in milligrams per kilogram (mg/kg).
‡ = Lead-based paint as defined by U.S. EPA (>5000 mg/kg)
† = Lead-containing paint as defined by Consumer Product Safety Act (>600 mg/kg)

[OSHA regulates potential exposure to any detectable level of lead]

EA GROUP
Environmental Analysis and Management

APPENDIX A

Asbestos Inspection Data Sheet(s)

General Sample Location Schematic(s)

ASBESTOS INSPECTION DATA SHEET KEY

Client and Project: Information provided by either Work Order or Scope of Work

Building: Name or address of building.

Functional Space: A room, group of rooms, or homogeneous area designated by the inspector to prepare management plans, design abatement projects, or conduct response actions.

Location: Location of homogeneous material being sampled or occurrence of homogeneous material.

Group:- An arbitrary designation (number or letter) assigned to each homogeneous material (material that is uniform in color and texture, serves the same function, and was installed at the same time) encountered during sampling.

ID #: A sample number assigned by the inspector which begins with the work order number (OHXXXXX) at the top of the column and then a unique sample number for each sample. May include an additional suffix (e.g., building ID, sampling date).

Material Description: Distinguishing characteristics that may include system type, function, size, color, shape etc.

Quantity: Defined as square feet (SF) [default], linear feet (LF), or individual number of fittings or miscellaneous items, each (EA)

Material Type: Abbreviations provided on the form as:

S Surfacing Material (troweled or sprayed-on)

T Thermal System Insulation (TSI)

M Miscellaneous (Friable, unless otherwise noted): **NF1** - Non-friable Category I **NF2** - Non-friable Category II

Material Condition: Typically noted only for general surveys (e.g., for O&M planning purposes).

ND No Damage. The material is in visibly good condition with no apparent/obvious damage.

D Damage. Material has damage to less than 10% of the entire homogeneous group or less than 25% of a localized section of the homogeneous group.

SD Significant Damage. Material has damage to greater than 10% of the entire homogeneous group or greater than 25% of a localized section of the homogeneous group.

Friable: When dry, an asbestos-containing material [ACM] is considered friable if it can be crumbled, pulverized, or reduced to powder by *hand pressure*

Result: 0 = material determined to be non-ACM (no asbestos); **[+]** = material determined to contain a regulated amount of asbestos (confirmed ACM)

Additional notations may be included for specific samples or materials for further clarification, which would be defined under “Comments”

ASBESTOS INSPECTION DATA SHEET

Client: Kevin Robinette Architects	12100 Euclid Avenue, Cleveland, Ohio	Building: University Circle Police Department
Project: Pre-Renovation Asbestos Survey		Functional Space: Second Floor

LOCATION	Group	ID # OH44458	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Multi-Purpose Room	A	01	2'x4' Ceiling Panel; Pockmark, Pinhole					0	
	B	03	Drywall System					0	
	C	05	1'x1' Ceiling Tile & mastic; Perforated					0	
	D	07	Carpet Mastic; Yellow					0	
	E	09	9"x9" Floor Tile & mastic; Green w/ black	600	M/NF1		N	**[+],B[FT]**	
Storage 1	B	---	Drywall System					0	
	C	---	1'x1' Ceiling Tile & mastic; Perforated					0	
	J	---	12"x12" Floor Tile & mastic; Gray	80	M/NF1		N	**[+][M]**	
	K	---	4" Cove Base & mastic; Gray					0	
Storage 2	B	---	Drywall System					0	
	C	---	1'x1' Ceiling Tile & mastic; Perforated					0	
	J	---	12"x12" Floor Tile & mastic; Gray	80	M/NF1		N	**[+][M]**	
	K	---	4" Cove Base & mastic; Gray					0	

MATERIALS:
TYPE:
S - Surfacing
T - Thermal
M - Miscellaneous
NF1 - Non-friable Cat. I
NF2 - Non-friable Cat. II
N/S = not suspect
CONDITION: [if relevant]
ND - No Damage
D - Damage
SD - Significant Damage

QUANTITY = Square Feet unless noted
LF = Linear Feet; EA = each
NQ = not quantified
FRIABLE:
Y = Regulated ACM (RACM) by definition
N = not RACM by definition
NF1/NF2 may be friable due to condition or may become friable during reno/demo
RESULT:
0 - Non-ACM
[+] = ACM [no other assessment required]
B = Verified by layering/point counting

COMMENTS:

Black mastic from Group E is adhered to backside of carpet. Treat carpeting as non-ACM since Group E mastic is not positive.

[+][0], [+][0,B] = Sample non-ACM or trace but at least one other sample from Group confirmed ACM; Group considered ACM
[+][FT] = Floor Tile ACM; Mastic non-ACM
[+][M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes)
0,B = trace (≤ 1%) asbestos; non-ACM by EPA but OSHA may apply
0,B[M] = trace asbestos in mastic layer, none in floor tile or ceiling tile

EA GROUP
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EAG Technician(s): Michael Kovell ES 34424 EAG OH44458

Survey Date(s): November 24, 2021

ASBESTOS INSPECTION DATA SHEET

Client: Kevin Robinette Architects	12100 Euclid Avenue, Cleveland, Ohio	Building: University Circle Police Department
Project: Pre-Renovation Asbestos Survey		Functional Space: Second Floor

LOCATION	Group	ID # OH44458	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Break Room, incl. vestibule	A	---	2'x4' Ceiling Panel; Pockmark, Pinhole					0	
	B	---	Drywall System					0	
	C	---	1'x1' Ceiling Tile & mastic; Perforated					0	
	D	08	Carpet Mastic; Yellow					0	
	E	---	9"x9" Floor Tile & mastic; Green w/ black	315	M/NF1		N	**[+][FT]**	
	F	11	Sink Bottom Coating; White					0	
	F	12	Sink Bottom Coating; White					0	
Women's Restroom	B	---	Drywall System					0	
	G	13	12"x12" Floor Tile & mastic; Off-White w/ beige	40	M/NF1		N	**[+],B[M]**	
	H	15	4" Cove Base & mastic; White					0	
	I	17	Drywall System; Swirl Finish					0	
Men's Restroom, incl. closet	B	---	Drywall System					0	
	G	14	12"x12" Floor Tile & mastic; Off-White w/ beige	40	M/NF1		N	**[+][M]**	

MATERIALS:
TYPE:
S - Surfacing
T - Thermal
M - Miscellaneous
NF1 - Non-friable Cat. I
NF2 - Non-friable Cat. II
N/S = not suspect
CONDITION: [if relevant]
ND - No Damage
D - Damage
SD - Significant Damage

QUANTITY = Square Feet unless noted
LF = Linear Feet; EA = each
NQ = not quantified
FRIABLE:
Y = Regulated ACM (RACM) by definition
N = not RACM by definition
NF1/NF2 may be friable due to condition or may become friable during reno/demo
RESULT:
0 - Non-ACM
[+] = ACM [no other assessment required]
B = Verified by layering/point counting

COMMENTS:

Black mastic from Group E is adhered to backside of carpet. Treat carpeting as non-ACM since Group E mastic is not positive.

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[+][M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes)
0,B = trace (≤ 1%) asbestos; non-ACM by EPA but OSHA may apply
0,B[M] = trace asbestos in mastic layer, none in floor tile or ceiling tile

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EAG Technician(s): Michael Kovell ES 34424 EAG OH44458

Survey Date(s): November 24, 2021

ASBESTOS INSPECTION DATA SHEET

Client: Kevin Robinette Architects 12100 Euclid Avenue, Cleveland, Ohio	Building: University Circle Police Department
Project: Pre-Renovation Asbestos Survey	Functional Space: Second Floor

LOCATION	Group	ID # OH44458	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Men's Restroom, incl. closet	H	16	4" Cove Base & mastic; White					0	
	I	18	Drywall System; Swirl Finish					0	
	J	19	12"x12" Floor Tile & mastic; Gray	25	M/NF1		N	**[+][M]**	[0,B][M]; DOUBLE LAYER FT
Closet	B	---	Drywall System					0	
	I	---	Drywall System; Swirl Finish					0	
	J	20	12"x12" Floor Tile & mastic; Gray	10	M/NF1		N	**[+],B[M]**	
	K	21	4" Cove Base & mastic; Gray					0	
	K	22	4" Cove Base & mastic; Gray					0	
Men's Locker Room	A	02	2'x4' Ceiling Panel; Pockmark, Pinhole					0	
	B	04	Drywall System					0	
	C	06	1'x1' Ceiling Tile & mastic; Perforated					0	
	D	---	Carpet Mastic; Yellow					0	
	E	10	9"x9" Floor Tile & mastic; Green w/ black	240	M/NF1		N	**[+][FT]**	

MATERIALS:
TYPE:
S - Surfacing
T - Thermal
M - Miscellaneous
NF1 - Non-friable Cat. I
NF2 - Non-friable Cat. II
N/S = not suspect
CONDITION: [if relevant]
ND - No Damage
D - Damage
SD - Significant Damage

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FRIABLE:
Y = Regulated ACM (RACM) by definition
N = not RACM by definition
NF1/NF2 may be friable due to condition or may become friable during reno/demo
RESULT:
0 - Non-ACM
[+] = ACM [no other assessment required]
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COMMENTS:

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[+][M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes)
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EAG Technician(s): Michael Kovell ES 34424 EAG OH44458

Survey Date(s): November 24, 2021

ASBESTOS INSPECTION DATA SHEET

Client: Kevin Robinette Architects — 12100 Euclid Avenue, Cleveland, Ohio | Building: University Circle Police Department

Project: Pre-Renovation Asbestos Survey | Functional Space: First Floor

LOCATION	Group	ID # OH44458	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Restroom	L	---	Drywall System					0	
	M	25	Drywall System; Stipple Texture					0	
	M	26	Drywall System; Stipple Texture					0	
Entry	L	23	Drywall System					0	
	N	27	12"x12" Floor Tile & mastic; Black w/ white					0	
	O	29	4" Cove Base & mastic; Black					0	
Mechanic Office	L	---	Drywall System					0	
	C	---	1'x1' Ceiling Tile & mastic; Perforated					0	
[Adhered to Group E]	D	---	Carpet Mastic; Yellow					0	
	E	---	9"x9" Floor Tile & mastic; Green w/ black	195	M/NF1		N	**[+][FT]**	MASTIC ONLY
Mechanic Storage	L	---	Drywall System					0	
Evidence 2	L	---	Drywall System					0	

MATERIALS:
TYPE:
S - Surfacing
T - Thermal
M - Miscellaneous
NF1 - Non-friable Cat. I
NF2 - Non-friable Cat. II
N/S = not suspect
CONDITION: [if relevant]
ND - No Damage
D - Damage
SD - Significant Damage

QUANTITY = Square Feet unless noted
LF = Linear Feet; EA = each
NQ = not quantified
FRIABLE:
Y = Regulated ACM (RACM) by definition
N = not RACM by definition
NF1/NF2 may be friable due to condition or may become friable during reno/demo
RESULT:
0 - Non-ACM
[+] = ACM [no other assessment required]
B = Verified by layering/point counting

COMMENTS:

Black mastic from Group E is adhered to backside of carpet. Treat carpeting as non-ACM since Group E mastic is not positive.

[+][0], [+][0,B] = Sample non-ACM or trace but at least one other sample from Group confirmed ACM; Group considered ACM
[+][FT] = Floor Tile ACM; Mastic non-ACM
[+][M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes)
0,B = trace (≤ 1%) asbestos; non-ACM by EPA but OSHA may apply
0,B[M] = trace asbestos in mastic layer, none in floor tile or ceiling tile

EA GROUP
7118 Industrial Park Blvd.
Mentor, OH 44060-5314
(440) 951-3514

EAG Technician(s): Michael Kovell ES 34424 EAG OH44458

Survey Date(s): November 24, 2021

ASBESTOS INSPECTION DATA SHEET

Client: Kevin Robinette Architects — 12100 Euclid Avenue, Cleveland, Ohio | Building: University Circle Police Department

Project: Pre-Renovation Asbestos Survey | Functional Space: First Floor

LOCATION	Group	ID # OH44458	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Detective Office	L	---	Drywall System					0	
	C	---	1'x1' Ceiling Tile & mastic; Perforated					0	
	D	---	Carpet Mastic; Yellow					0	
	P	31	12"x12" Floor Tile & mastic; Beige w/ brown streaks					0	
Vestibule	L	24	Drywall System					0	
	J	---	12"x12" Floor Tile & mastic; Gray	25	M/NF1		N	**[+][M]**	
	N	28	12"x12" Floor Tile & mastic; Black w/ white					0	
	O	30	4" Cove Base & mastic; Black					0	
Evidence 1	L	---	Drywall System					0	
	P	32	12"x12" Floor Tile & mastic; Beige w/ brown streaks					0	
	Q	33	4" Cove Base & mastic; Brown					0	
	Q	34	4" Cove Base & mastic; Brown					0	

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NF2 - Non-friable Cat. II
N/S = not suspect
CONDITION: [if relevant]
ND - No Damage
D - Damage
SD - Significant Damage

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LF = Linear Feet; EA = each
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FRIABLE:
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(440) 951-3514

EAG Technician(s): Michael Kovell ES 34424 EAG OH44458

Survey Date(s): November 24, 2021

ASBESTOS INSPECTION DATA SHEET

Client: Kevin Robinette Architects — 12100 Euclid Avenue, Cleveland, Ohio | Building: University Circle Police Department

Project: Pre-Renovation Asbestos Survey | Functional Space: First Floor

LOCATION	Group	ID # OH44458	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Maintenance Office	L	---	Drywall System					0	
	C	---	1'x1' Ceiling Tile & mastic; Perforated					0	
	E	---	9"x9" Floor Tile & mastic; Green w/ black	155	M/NF1		N	**[+][FT]**	
Stairs to Second Floor	D	---	Carpet Mastic; Yellow					0	
	U	41	12"x12" Floor Tile & mastic; Light Blue					0	
	U	42	12"x12" Floor Tile & mastic; Light Blue					0	
	R	35	Drywall System					0	
	S	37	6" Cove Base & mastic; Beige					0	
	S	38	6" Cove Base & mastic; Beige					0	
	T	39	Stair Tread & mastic; Beige					0	
	T	40	Stair Tread & mastic; Beige					0	
Bike Storage	L	---	Drywall System					0	

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EA GROUP
7118 Industrial Park Blvd.
Mentor, OH 44060-5314
(440) 951-3514

EAG Technician(s): Michael Kovell ES 34424 EAG OH44458

Survey Date(s): November 24, 2021

ASBESTOS INSPECTION DATA SHEET

Client: Kevin Robinette Architects	12100 Euclid Avenue, Cleveland, Ohio	Building: University Circle Police Department
Project: Pre-Renovation Asbestos Survey		Functional Space: First Floor

LOCATION	Group	ID # OH44458	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Gym	R	---	Drywall System					0	
	V	43	2'x4' Ceiling Panel; Large Pockmark, Pinhole					0	
	V	44	2'x4' Ceiling Panel; Large Pockmark, Pinhole					0	
	D	---	Carpet Mastic; Yellow					0	
	E	---	9"x9" Floor Tile & mastic; Green w/ black	440	M/NF1		N	**[+][FT]**	
	Y	---	1'x2' Ceiling Tile & mastic; Perforated					0	
Armory	R	---	Drywall System					0	
	V	---	2'x4' Ceiling Panel; Large Pockmark, Pinhole					0	
	W	45	2'x4' Ceiling Panel; Fissure, Pinhole					0	
	X	47	Duct Sealant; Beige					0	
	X	48	Duct Sealant; Beige					0	
	P	---	12"x12" Floor Tile & mastic; Beige w/ brown streaks					0	
	Y	---	1'x2' Ceiling Tile & mastic; Perforated					0	

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(440) 951-3514

EAG Technician(s): Michael Kovell ES 34424 EAG OH44458

Survey Date(s): November 24, 2021

ASBESTOS INSPECTION DATA SHEET

Client: Kevin Robinette Architects — 12100 Euclid Avenue, Cleveland, Ohio | Building: University Circle Police Department

Project: Pre-Renovation Asbestos Survey | Functional Space: First Floor

LOCATION	Group	ID # OH44458	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Women's Locker Room		---	#N/A		#N/A				NO ACCESS - LOCKED
Men's Restroom	Q	---	4" Cove Base & mastic; Brown					0	
	R	36	Drywall System					0	
	W	46	2'x4' Ceiling Panel; Fissure, Pinhole					0	
	P	---	12"x12" Floor Tile & mastic; Beige w/ brown streaks					0	
	Y	49	1'x2' Ceiling Tile & mastic; Perforated					0	
	Y	50	1'x2' Ceiling Tile & mastic; Perforated					0	
Corridor	Q	---	4" Cove Base & mastic; Brown					0	
	R	---	Drywall System					0	
	W	---	2'x4' Ceiling Panel; Fissure, Pinhole					0	
	P	---	12"x12" Floor Tile & mastic; Beige w/ brown streaks					0	
	Y	---	1'x2' Ceiling Tile & mastic; Perforated					0	

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EA GROUP
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Mentor, OH 44060-5314
(440) 951-3514

EAG Technician(s): Michael Kovell ES 34424 EAG OH44458

Survey Date(s): November 24, 2021

ASBESTOS INSPECTION DATA SHEET

Client: Kevin Robinette Architects — 12100 Euclid Avenue, Cleveland, Ohio | Building: University Circle Police Department

Project: Pre-Renovation Asbestos Survey | Functional Space: First Floor

LOCATION	Group	ID # OH44458	MATERIAL DESCRIPTION	Quantity	Material		FRIABLE	RESULT	NOTES
					Type	Cond			
Janitor Closet	R	---	Drywall System					0	
	P	---	12"x12" Floor Tile & mastic; Beige w/ brown streaks					0	
	Q	---	4" Cove Base & mastic; Brown					0	
Women's Restroom	R	---	Drywall System					0	
	Q	---	4" Cove Base & mastic; Brown					0	
	Z	51	12"x12" Floor Tile & mastic; Gray w/ brown & white					0	
	Z	52	12"x12" Floor Tile & mastic; Gray w/ brown & white					0	
	W	---	2'x4' Ceiling Panel; Fissure, Pinhole					0	
	Y	---	1'x2' Ceiling Tile & mastic; Perforated					0	

MATERIALS:
TYPE:
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M - Miscellaneous
NF1 - Non-friable Cat. I
NF2 - Non-friable Cat. II
N/S = not suspect
CONDITION: [if relevant]
ND - No Damage
D - Damage
SD - Significant Damage

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RESULT:
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[+][M] = Floor Tile non-ACM; Mastic ACM (Group as a whole considered ACM for removal purposes)
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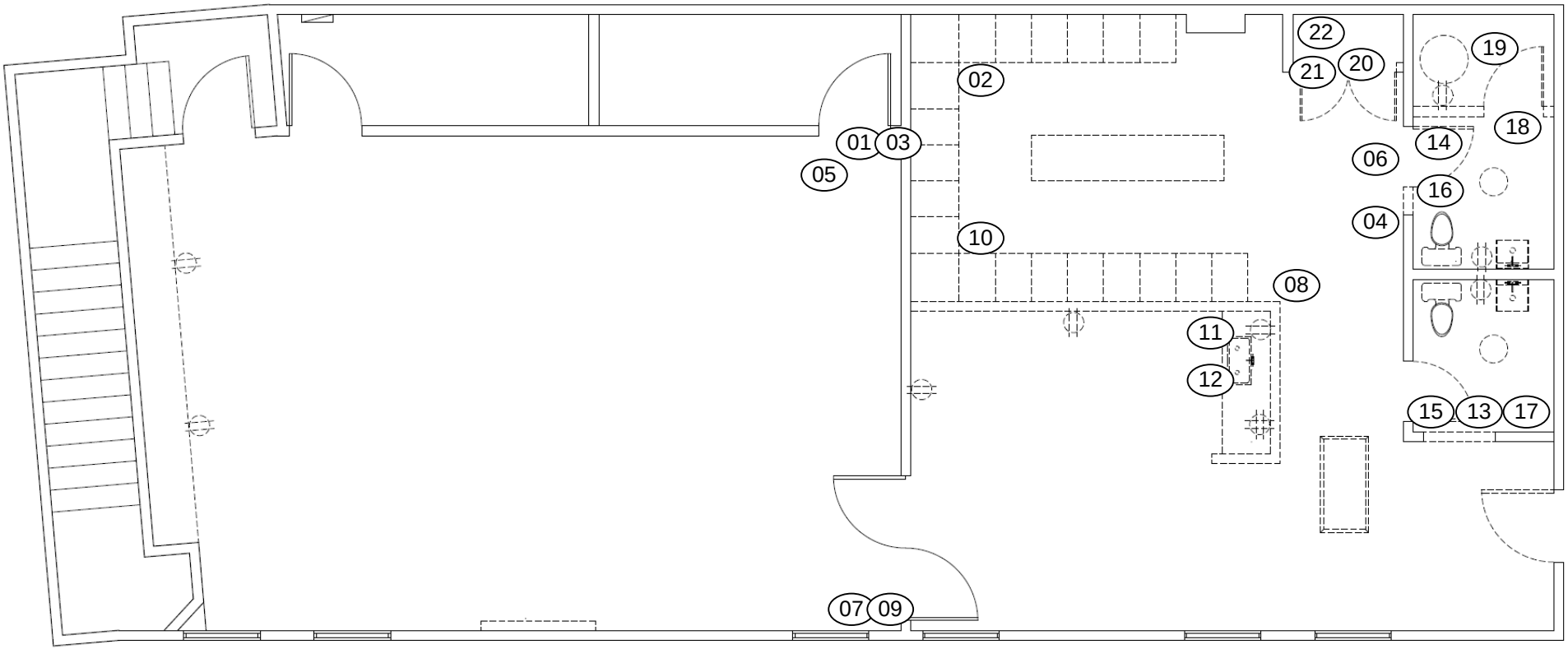
EA GROUP
7118 Industrial Park Blvd.
Mentor, OH 44060-5314
(440) 951-3514

EAG Technician(s): Michael Kovell ES 34424 EAG OH44458

Survey Date(s): November 24, 2021

F:\PROJECTS\ENV\OH44458,KEVINROBINETTEARCHITECTS\
44458,KEVINROBINETTEARCHITECTS_FIG1,DWG.VSD

EA GROUP



Second Floor

KEY

01 Asbestos Sample No. & General Location

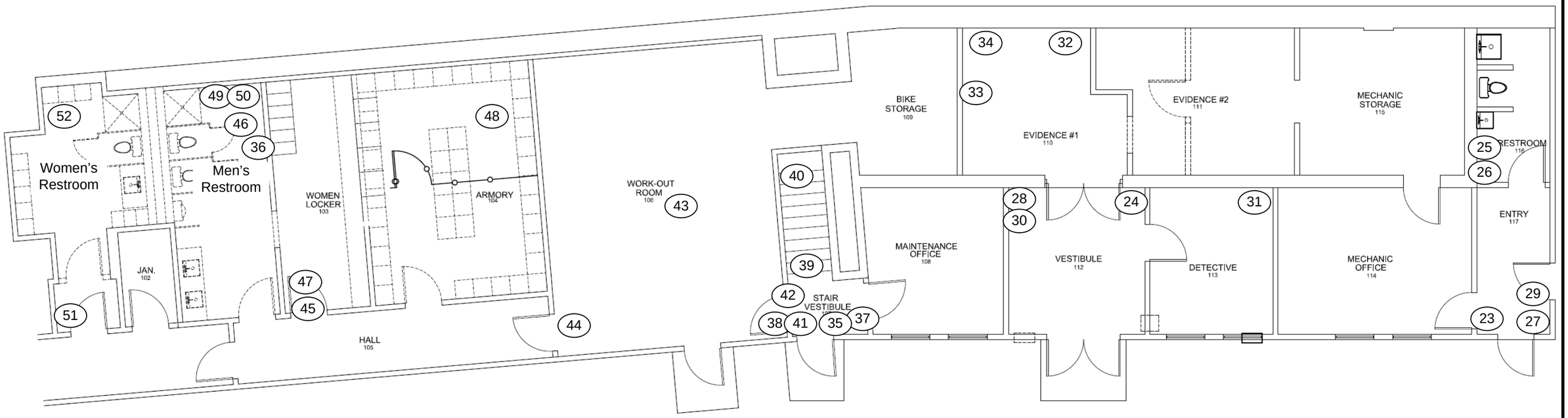
Asbestos Sampling Locations Diagram

University Circle Police Department
12100 Euclid Avenue, Cleveland, Ohio

DRAWING FOR GENERAL REFERENCE PURPOSES ONLY.
BASE PROVIDED BY CLIENT, ACTUAL ROOM CONFIGURATIONS MAY DIFFER FROM THOSE SHOWN;
ANNOTATIONS BY EA GROUP. REFER TO SURVEY FOR DETAILS. NOT TO SCALE.

EAG No. OH44458	Date: December 2, 2021	Figure 1

EA GROUP



First Floor

KEY

(05) = asbestos sample number and general location

Asbestos Sampling Locations Diagram

University Circle Police Department
12100 Euclid Avenue, Cleveland, Ohio

EAG No. OH44458	Date: December 2, 2021	Figure 2

DRAWING FOR GENERAL REFERENCE PURPOSES ONLY.
BASE PROVIDED BY CLIENT, ACTUAL ROOM CONFIGURATIONS MAY DIFFER FROM THOSE SHOWN; ANNOTATIONS BY EA GROUP.
REFER TO SURVEY FOR DETAILS. NO SCALE.

F:\PROJECTS\ENV\OH44458.KEV\NROBINETTEARCHITECTS\44458.KEV\NROBINETTEARCHITECTS_FIG2.DWG.VSD

EA GROUP
Environmental Analysis and Management

APPENDIX B

Laboratory Analytical Report(s)

EA GROUP
Environmental Analysis and Management

Kevin Robinette
2091 South Belvoir Blvd.
South Euclid, OH 44121
Kevin Robinette

Client Project: Pre-Reno Survey
EA Group Workorder Number: 211100283
Received on November 29, 2021

The following analytical report contains results as requested for samples submitted to EA Group. The results included in this report have been reviewed for compliance with the analytical methods indicated in this report. All data has been found to be compliant with accepted laboratory protocol, except as noted in the QC narrative. Industrial hygiene reports, air and/or surface concentrations results are based upon sampling information provided by the client. Analyst initials of REF indicate analysis performed at a subcontract facility.

If you have questions, comments or require further assistance regarding this report, please contact your client services representative or one of the individuals listed below.

Data or reporting:
Debbie Lauer - Lab Manager
dlauer@eagroupohio.com

Mike Herbert - General Manager
mherbert@eagroupohio.com

Sample tracking, supplies:
Sample Receiving
sreceiving@eagroupohio.com

Invoice Related:
Bonnie Renbarger - Office Manager
brenbarger@eagroupohio.com

7118 Industrial Park Blvd. , Mentor, Ohio 44060-5314
(440) 951-3514 (800) 875-3514 FAX (440) 951-3774 www.eagroupohio.com

EA GROUP
Environmental Analysis and Management

Laboratory Analytical Report

Kevin Robinette
2091 South Belvoir Blvd.
South Euclid, OH 44121

Attention:
Kevin Robinette

Project Identification
Pre-Reno Survey

OH44458
Purchase Order:

EA Group
Order Number
2111-00283

Carl R. Eggebraaten
Microscopist

Deborah L. Lauer
Laboratory Manager

December 6, 2021

7118 Industrial Park Blvd., Mentor, Ohio 44060-5314
(440) 951-3514 (800) 875-3514 FAX (440) 951-3774 www.eagroupohio.com

EA GROUP
Environmental Analysis and Management

Project Summary

The following analytical report contains the results as requested for samples submitted to EA Group. The results included in this report have been reviewed for compliance with the analytical methods indicated in this report. All data have been found to be compliant with accepted laboratory protocol. Exceptions, if any, are noted below.

Sample Summary

Sample Receive Date: 11/29/2021

EAG Sample Identification	Client Sample Identification	EAG Sample Identification	Client Sample Identification
211100283-01A	OH44458-01	211100283-02A	OH44458-02
211100283-03A	OH44458-03	211100283-04A	OH44458-04
211100283-05A	OH44458-05	211100283-06A	OH44458-06
211100283-07A	OH44458-07	211100283-08A	OH44458-08
211100283-09A	OH44458-09	211100283-10A	OH44458-10
211100283-11A	OH44458-11	211100283-12A	OH44458-12
211100283-13A	OH44458-13	211100283-14A	OH44458-14
211100283-15A	OH44458-15	211100283-16A	OH44458-16
211100283-17A	OH44458-17	211100283-18A	OH44458-18
211100283-19A	OH44458-19	211100283-20A	OH44458-20
211100283-21A	OH44458-21	211100283-22A	OH44458-22
211100283-23A	OH44458-23	211100283-24A	OH44458-24
211100283-25A	OH44458-25	211100283-26A	OH44458-26
211100283-27A	OH44458-27	211100283-28A	OH44458-28
211100283-29A	OH44458-29	211100283-30A	OH44458-30
211100283-31A	OH44458-31	211100283-32A	OH44458-32
211100283-33A	OH44458-33	211100283-34A	OH44458-34
211100283-35A	OH44458-35	211100283-36A	OH44458-36
211100283-37A	OH44458-37	211100283-38A	OH44458-38
211100283-39A	OH44458-39	211100283-40A	OH44458-40
211100283-41A	OH44458-41	211100283-42A	OH44458-42
211100283-43A	OH44458-43	211100283-44A	OH44458-44
211100283-45A	OH44458-45	211100283-46A	OH44458-46
211100283-47A	OH44458-47	211100283-48A	OH44458-48
211100283-49A	OH44458-49	211100283-50A	OH44458-50
211100283-51A	OH44458-51	211100283-52A	OH44458-52

Quality Control Narrative

This report contains data which was produced by a subcontracted laboratory

NVLAP Lab Code 101165-0 for Asbestos Analysis.

IATL, Inc.

9000 Commerce Parkway, Suite B

Mt. Laurel, NJ 08054

EA GROUP
Environmental Analysis and Management

Project Summary

The following analytical report contains the results as requested for samples submitted to EA Group. The results included in this report have been reviewed for compliance with the analytical methods indicated in this report. All data have been found to be compliant with accepted laboratory protocol. Exceptions, if any, are noted below.

Sample Summary

Sample Receive Date: 11/29/2021

EAG Sample Identification	Client Sample Identification	EAG Sample Identification	Client Sample Identification

Reproduction of this report is prohibited except in its entirety. Unless noted, soil, sludge, and sediment results are reported on dry weight basis. The "Sample Reporting Limit" is based on the method used for analysis and does not refer to any regulatory limit.

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Client: EAG482

Report Date: 12/6/2021
Report No.: 648304 - PLM
Project: OH44458
Project No.: 2111-00283

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7323595 **Analyst Observation:** Tan Ceiling Tile **Location:**
Client No.: OH44458-01 **Client Description:** **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 35 Cellulose, 20 Fibrous Glass
Percent Non-Fibrous Material: 45

Lab No.: 7323596 **Analyst Observation:** Tan Ceiling Tile **Location:**
Client No.: OH44458-02 **Client Description:** **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 35 Cellulose, 20 Fibrous Glass
Percent Non-Fibrous Material: 45

Lab No.: 7323597 **Analyst Observation:** Lt Tan Drywall **Location:**
Client No.: OH44458-03 **Client Description:** **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 20 Cellulose
Percent Non-Fibrous Material: 80

Lab No.: 7323597(L2) **Analyst Observation:** White Joint Compound **Location:**
Client No.: OH44458-03 **Client Description:** **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Lab No.: 7323598 **Analyst Observation:** Lt Tan Drywall **Location:**
Client No.: OH44458-04 **Client Description:** **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 15 Cellulose
Percent Non-Fibrous Material: 85

Lab No.: 7323598(L2) **Analyst Observation:** White Joint Compound **Location:**
Client No.: OH44458-04 **Client Description:** **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: None Detected
Percent Non-Fibrous Material: 100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/30/2021
Date Analyzed: 12/06/2021
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Client: EAG482

Report Date: 12/6/2021
Report No.: 648304 - PLM
Project: OH44458
Project No.: 2111-00283

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7323599 **Client No.:** OH44458-05	**Analyst Observation:** Beige Ceiling Tile **Client Description:**	**Location:** **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: 98 Cellulose	Percent Non-Fibrous Material: 2
Lab No.: 7323600 **Client No.:** OH44458-06	**Analyst Observation:** Beige Ceiling Tile **Client Description:**	**Location:** **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: 97 Cellulose	Percent Non-Fibrous Material: 3
Lab No.: 7323601 **Client No.:** OH44458-07	**Analyst Observation:** Tan Mastic **Client Description:**	**Location:** **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: 1 Cellulose	Percent Non-Fibrous Material: 99
Lab No.: 7323602 **Client No.:** OH44458-08	**Analyst Observation:** Tan Mastic **Client Description:**	**Location:** **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: 1 Cellulose	Percent Non-Fibrous Material: 99
Lab No.: 7323603 **Client No.:** OH44458-09	**Analyst Observation:** Green Floor Tile **Client Description:**	**Location:** **Facility:**
Percent Asbestos: ***PC 1.8*** *Chrysotile*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 98.2
Lab No.: 7323603(L2) **Client No.:** OH44458-09	**Analyst Observation:** Black Mastic **Client Description:**	**Location:** **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: 2 Cellulose	Percent Non-Fibrous Material: 98

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Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Client: EAG482

Report Date: 12/6/2021
Report No.: 648304 - PLM
Project: OH44458
Project No.: 2111-00283

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7323603(L3) **Analyst Observation:** Tan Mastic **Location:**
Client No.: OH44458-09 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	3 Cellulose	97

Lab No.: 7323603(L4) **Analyst Observation:** Black Felt **Location:**
Client No.: OH44458-09 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	65 Cellulose	35

Lab No.: 7323604 **Analyst Observation:** Black Mastic **Location:**
Client No.: OH44458-10 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	1 Cellulose	99

Lab No.: 7323604(L2) **Analyst Observation:** Tan Mastic **Location:**
Client No.: OH44458-10 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	2 Cellulose	98

Lab No.: 7323604(L3) **Analyst Observation:** Black Felt **Location:**
Client No.: OH44458-10 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	70 Cellulose	30

Lab No.: 7323605 **Analyst Observation:** Off-White Sink Undercoating **Location:**
Client No.: OH44458-11 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	7 Cellulose	93

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Client: EAG482

Report Date: 12/6/2021
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Project: OH44458
Project No.: 2111-00283

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7323606 | **Analyst Observation:** Off-White Sink Undercoating | **Location:**
Client No.: OH44458-12 | **Client Description:** | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	6 Cellulose	94

Lab No.: 7323607 | **Analyst Observation:** Off-White Floor Tile | **Location:**
Client No.: OH44458-13 | **Client Description:** | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323607(L2) | **Analyst Observation:** Black Mastic | **Location:**
Client No.: OH44458-13 | **Client Description:** | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
PC 1.2 *Chrysotile*	3 Cellulose	95.8

Lab No.: 7323608 | **Analyst Observation:** Off-White Floor Tile | **Location:**
Client No.: OH44458-14 | **Client Description:** | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323609 | **Analyst Observation:** Off-White Cove Base | **Location:**
Client No.: OH44458-15 | **Client Description:** | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323609(L2) | **Analyst Observation:** Off-White Mastic | **Location:**
Client No.: OH44458-15 | **Client Description:** | **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

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Project: OH44458
Project No.: 2111-00283

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7323610
Client No.: OH44458-16
Analyst Observation: Off-White Cove Base
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7323610(L2)
Client No.: OH44458-16
Analyst Observation: Off-White Mastic
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7323611
Client No.: OH44458-17
Analyst Observation: Lt Tan Drywall
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
10 Cellulose

Percent Non-Fibrous Material:
90

Lab No.: 7323611(L2)
Client No.: OH44458-17
Analyst Observation: White Joint Compound
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7323612
Client No.: OH44458-18
Analyst Observation: Lt Tan Drywall
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
10 Cellulose

Percent Non-Fibrous Material:
90

Lab No.: 7323612(L2)
Client No.: OH44458-18
Analyst Observation: White Joint Compound
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7323613
Client No.: OH44458-19
Analyst Observation: Grey Floor Tile
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7323613(L2)
Client No.: OH44458-19
Analyst Observation: Black Mastic
Client Description:
Location:
Facility:

Percent Asbestos:
PC 0.5 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
2 Cellulose

Percent Non-Fibrous Material:
97.5

Lab No.: 7323614
Client No.: OH44458-20
Analyst Observation: Grey Floor Tile
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7323614(L2)
Client No.: OH44458-20
Analyst Observation: Black Mastic
Client Description:
Location:
Facility:

Percent Asbestos:
PC 1.2 *Chrysotile*

Percent Non-Asbestos Fibrous Material:
1 Cellulose

Percent Non-Fibrous Material:
97.8

Lab No.: 7323615
Client No.: OH44458-21
Analyst Observation: Brown Cove Base
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7323615(L2)
Client No.: OH44458-21
Analyst Observation: Off-White Mastic
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

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Project No.: 2111-00283

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7323616
Client No.: OH44458-22
Analyst Observation: Brown Cove Base
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7323616(L2)
Client No.: OH44458-22
Analyst Observation: Off-White Mastic
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7323617
Client No.: OH44458-23
Analyst Observation: Lt Tan Drywall
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
15 Cellulose

Percent Non-Fibrous Material:
85

Lab No.: 7323617(L2)
Client No.: OH44458-23
Analyst Observation: White Joint Compound
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7323617(L3)
Client No.: OH44458-23
Analyst Observation: White Joint Compound
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7323618
Client No.: OH44458-24
Analyst Observation: Lt Tan Drywall
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
10 Cellulose

Percent Non-Fibrous Material:
90

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7323618(L2) **Analyst Observation:** White Joint Compound **Location:**
Client No.: OH44458-24 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323619 **Analyst Observation:** Lt Tan Drywall **Location:**
Client No.: OH44458-25 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	10 Cellulose	90

Lab No.: 7323619(L2) **Analyst Observation:** Off-White Joint Compound **Location:**
Client No.: OH44458-25 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323620 **Analyst Observation:** Lt Tan Drywall **Location:**
Client No.: OH44458-26 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	10 Cellulose	90

Lab No.: 7323620(L2) **Analyst Observation:** White Joint Compound **Location:**
Client No.: OH44458-26 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323620(L3) **Analyst Observation:** White Joint Compound **Location:**
Client No.: OH44458-26 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

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Project: OH44458
Project No.: 2111-00283

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7323621 **Analyst Observation:** Black Floor Tile **Location:**
Client No.: OH44458-27 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323621(L2) **Analyst Observation:** Tan Mastic **Location:**
Client No.: OH44458-27 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323622 **Analyst Observation:** Black Floor Tile **Location:**
Client No.: OH44458-28 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323622(L2) **Analyst Observation:** Tan Mastic **Location:**
Client No.: OH44458-28 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323623 **Analyst Observation:** Black Cove Base **Location:**
Client No.: OH44458-29 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323623(L2) **Analyst Observation:** Tan Mastic **Location:**
Client No.: OH44458-29 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7323624
Client No.: OH44458-30
Analyst Observation: Black Cove Base
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7323624(L2)
Client No.: OH44458-30
Analyst Observation: Tan Mastic
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7323625
Client No.: OH44458-31
Analyst Observation: Lt Tan Floor Tile
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7323625(L2)
Client No.: OH44458-31
Analyst Observation: Black Mastic
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
2 Cellulose

Percent Non-Fibrous Material:
98

Lab No.: 7323625(L3)
Client No.: OH44458-31
Analyst Observation: Tan Mastic
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

Lab No.: 7323626
Client No.: OH44458-32
Analyst Observation: Lt Tan Floor Tile
Client Description:
Location:
Facility:

Percent Asbestos:
None Detected

Percent Non-Asbestos Fibrous Material:
None Detected

Percent Non-Fibrous Material:
100

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PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7323626(L2) **Analyst Observation:** Tan Mastic **Location:**
Client No.: OH44458-32 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323627 **Analyst Observation:** Lt Brown Cove Base **Location:**
Client No.: OH44458-33 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323627(L2) **Analyst Observation:** Tan Mastic **Location:**
Client No.: OH44458-33 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323628 **Analyst Observation:** Lt Brown Cove Base **Location:**
Client No.: OH44458-34 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323628(L2) **Analyst Observation:** Tan Mastic **Location:**
Client No.: OH44458-34 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323629 **Analyst Observation:** Lt Tan Drywall **Location:**
Client No.: OH44458-35 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	10 Cellulose	90

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Project No.: 2111-00283

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7323629(L2) **Analyst Observation:** White Joint Compound **Location:**
Client No.: OH44458-35 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323630 **Analyst Observation:** Lt Tan Drywall **Location:**
Client No.: OH44458-36 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	10 Cellulose	90

Lab No.: 7323630(L2) **Analyst Observation:** White Joint Compound **Location:**
Client No.: OH44458-36 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323631 **Analyst Observation:** Lt Tan Cove Base **Location:**
Client No.: OH44458-37 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323631(L2) **Analyst Observation:** Yellow Mastic **Location:**
Client No.: OH44458-37 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323632 **Analyst Observation:** Lt Tan Cove Base **Location:**
Client No.: OH44458-38 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

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Project No.: 2111-00283

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7323632(L2) **Analyst Observation:** Yellow Mastic **Location:**
Client No.: OH44458-38 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323633 **Analyst Observation:** Lt Tan Cove Base **Location:**
Client No.: OH44458-39 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323633(L2) **Analyst Observation:** Tan Mastic **Location:**
Client No.: OH44458-39 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323634 **Analyst Observation:** Lt Tan Cove Base **Location:**
Client No.: OH44458-40 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323634(L2) **Analyst Observation:** Tan Mastic **Location:**
Client No.: OH44458-40 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323635 **Analyst Observation:** Grey Floor Tile **Location:**
Client No.: OH44458-41 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/30/2021
Date Analyzed: 12/06/2021
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Client: EAG482

Report Date: 12/6/2021
Report No.: 648304 - PLM
Project: OH44458
Project No.: 2111-00283

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7323635(L2) **Analyst Observation:** Brown Mastic **Location:**
Client No.: OH44458-41 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	1 Cellulose	99

Lab No.: 7323636 **Analyst Observation:** Grey Floor Tile **Location:**
Client No.: OH44458-42 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323636(L2) **Analyst Observation:** Brown Mastic **Location:**
Client No.: OH44458-42 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	None Detected	100

Lab No.: 7323637 **Analyst Observation:** Tan Ceiling Tile **Location:**
Client No.: OH44458-43 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	35 Cellulose 20 Fibrous Glass	45

Lab No.: 7323638 **Analyst Observation:** Tan Ceiling Tile **Location:**
Client No.: OH44458-44 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	35 Cellulose 15 Fibrous Glass	50

Lab No.: 7323639 **Analyst Observation:** Tan Ceiling Tile **Location:**
Client No.: OH44458-45 **Client Description:** **Facility:**

Percent Asbestos:	Percent Non-Asbestos Fibrous Material:	Percent Non-Fibrous Material:
None Detected	35 Cellulose 15 Fibrous Glass	50

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/30/2021
Date Analyzed: 12/06/2021
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Client: EAG482

Report Date: 12/6/2021
Report No.: 648304 - PLM
Project: OH44458
Project No.: 2111-00283

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7323640 **Client No.:** OH44458-46	**Analyst Observation:** Tan Ceiling Tile **Client Description:**	**Location:** **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: 35 Cellulose 15 Fibrous Glass	Percent Non-Fibrous Material: 50
Lab No.: 7323641 **Client No.:** OH44458-47	**Analyst Observation:** Olive Mastic **Client Description:**	**Location:** **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 7323642 **Client No.:** OH44458-48	**Analyst Observation:** Olive Mastic **Client Description:**	**Location:** **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 7323643 **Client No.:** OH44458-49	**Analyst Observation:** Beige Ceiling Tile **Client Description:**	**Location:** **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: 97 Cellulose	Percent Non-Fibrous Material: 3
Lab No.: 7323643(L2) **Client No.:** OH44458-49	**Analyst Observation:** Brown Mastic **Client Description:**	**Location:** **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: None Detected	Percent Non-Fibrous Material: 100
Lab No.: 7323644 **Client No.:** OH44458-50	**Analyst Observation:** Beige Ceiling Tile **Client Description:**	**Location:** **Facility:**
Percent Asbestos: *None Detected*	Percent Non-Asbestos Fibrous Material: 97 Cellulose	Percent Non-Fibrous Material: 3

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/30/2021
Date Analyzed: 12/06/2021
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Client: EAG482

Report Date: 12/6/2021
Report No.: 648304 - PLM
Project: OH44458
Project No.: 2111-00283

PLM BULK SAMPLE ANALYSIS SUMMARY

Lab No.: 7323644(L2) **Analyst Observation:** Brown Mastic **Location:**
Client No.: OH44458-50 **Client Description:** **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 1 Cellulose
Percent Non-Fibrous Material: 99

Lab No.: 7323645 **Analyst Observation:** Lt Tan Floor Tile **Location:**
Client No.: OH44458-51 **Client Description:** **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 1 Cellulose
Percent Non-Fibrous Material: 99

Lab No.: 7323645(L2) **Analyst Observation:** Black Mastic **Location:**
Client No.: OH44458-51 **Client Description:** **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 1 Cellulose
Percent Non-Fibrous Material: 99

Lab No.: 7323646 **Analyst Observation:** Lt Tan Floor Tile **Location:**
Client No.: OH44458-52 **Client Description:** **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 1 Cellulose
Percent Non-Fibrous Material: 99

Lab No.: 7323646(L2) **Analyst Observation:** Black Mastic **Location:**
Client No.: OH44458-52 **Client Description:** **Facility:**

Percent Asbestos: *None Detected*
Percent Non-Asbestos Fibrous Material: 2 Cellulose
Percent Non-Fibrous Material: 98

Please refer to the Appendix of this report for further information regarding your analysis.

Date Received: 11/30/2021
Date Analyzed: 12/06/2021
Signature:
Analyst: Ellen Smith

Approved By:
Frank E. Ehrenfeld, III
Laboratory Director

9000 Commerce Parkway Suite B
Mt. Laurel, New Jersey 08054
Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Client: EAG482

Report Date: 12/6/2021
Report No.: 648304 - PLM
Project: OH44458
Project No.: 2111-00283

Appendix to Analytical Report

Customer Contact: Mike Herbert
Method: 40 CFR Appendix E to Subpart E of Part 763, interim method for the Determination of Asbestos in Bulk Insulation Samples, USEPA 600, R93-116 and NYSDOH ELAP 198.1 as needed.

This appendix seeks to promote greater understanding of any observations, exceptions, special instructions, or circumstances that the laboratory needs to communicate to the client concerning the above samples. The information below is used to help promote your ability to make the most informed decisions for you and your customers. Please note the following points of contact for any questions you may have.

iATL Customer Service: customerservice@iatl.com
iATL Office Manager: wchampion@iatl.com
iATL Account Representative: Semih Kocahasan
Sample Login Notes: See Batch Sheet Attached
Sample Matrix: Bulk Building Materials
Exceptions Noted: See Following Pages

General Terms, Warrants, Limits, Qualifiers:

General information about iATL capabilities and client/laboratory relationships and responsibilities are spelled out in iATL policies that are listed at www.iATL.com and ir our Quality Assurance Manual per ISO 17025 standard requirements. The information therein is a representation of iATL definitions and policies for turnaround times, sample submittal, collection media, blank definitions, quantification issues and limit of detection, analytical methods and procedures, sub-contracting policies, results reporting options, fees, terms, and discounts, confidentiality, sample archival and disposal, and data interpretation.

iATL warrants the test results to be of a precision normal for the type and methodology employed for each sample submitted. iATL disclaims any other warrants, expressed or implied, including warranty of fitness for a particular purpose and warranty of merchantability. iATL accepts no legal responsibility for the purpose for which the client uses test results. Any analytical work performed must be governed by our Standard Terms and Conditions. Prices, methods and detection limits may be changed without notification. Please contact your Customer Service Representative for the most current information.

This confidential report relates only to those item(s) tested and does not represent an endorsement by NIST-NVLAP, AIHA LAP LLC, or any agency of local, state or province governments nor of any agency of the U.S. government.

Information Pertinent to this Report:

Analysis by US EPA 600 93-116: Determination of Asbestos in Bulk Building Materials by Polarized Light Microscopy (PLM).

Certifications:

- NIST-NVLAP No. 101165-0
- NYSDOH-ELAP No. 11021
- AIHA-LAP, LLC No. 100188

Quantification at <0.25% by volume is possible with this method. (PC) Indicates Stratified Point Count Method performed. (PC-Trace) means that asbestos was detected but is not quantifiable under the Point Counting regimen. PC Trace represents a <0.25% amount. Analysis includes all distinct separable layers in accordance with EPA 600 Method. If not reported or otherwise noted, layer is either not present or the client has specifically requested that it not be analyzed (ex. analyze until positive instructions). Small asbestos fibers may be missed by PLM due to resolution limitations of the optical microscope. Therefore, PLM is not consistently reliable in detecting asbestos in non-friable organically bound (NOB) materials. Quantitative transmission electron microscopy (TEM) is currently the only method that can pronounce materials as non-asbestos containing.

Analytical Methodology Alternatives: Your initial request for analysis may not have accounted for recent advances in regulatory requirements or advances in technology that are routinely used in similar situations for other qualified projects. You may have the option to explore additional analysis for further information. Below are a few options, listed as the matrix followed by the appropriate methodology. Also included are links to more information on our website.

Bulk Building Materials that are Non-Friable Organically Bound (NOB) by Gravimetric Reduction techniques employing PLM and TEM: ELAP 198.6 (PLM-NOB), ELAP 198.4 (TEM-NOB) See additional information at the end of this appendix.

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Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Client: EAG482

Report Date: 12/6/2021
Report No.: 648304 - PLM
Project: OH44458
Project No.: 2111-00283

Loose Fill Vermiculite Insulation, Attic Insulation, Zonolite (copyright), etc.: US EPA 600 R-4/004 (multi-tiered analytical process)
Sprayed On Insulation/Fireproofing with Vermiculite (SOF-V): ELAP 198.8 (PLM-SOF-V)

Soil, sludge, sediment, aggregate, and like materials analyzed for asbestos or other elongated mineral particles (ex. erionite, etc.): ASTM D7521, CARB 435, and other options available

Asbestos in Surface Dust according to one of ASTM's Methods (very dependent on sampling collection technique – by TEM): ASTM D 5755, D5756, or D6480

Various other asbestos matrices (air, water, etc.) and analytical methods are available.

Disclaimers / Qualifiers:

There may be some samples in this project that have a "NOTE:" associated with a sample result. We use added disclaimers or qualifiers to inform the client about something that requires further explanation. Here is a list with highlighted disclaimers that may be pertinent to this project. For a full explanation of these and other disclaimers, please inquire at **customerservice@iatl.com**.

1) Note: No mastic provided for analysis.
2) Note: Insufficient mastic provided for analysis.
3) Note: Insufficient material provided for analysis.
4) Note: Insufficient sample provided for QC reanalysis.
5) Note: Different material than indicated on Sample Log / Description.
6) Note: Sample not submitted.
7) Note: Attached to asbestos containing material.
8) Note: Received wet.
9) Note: Possible surface contamination.
10) Note: Not building material. 1% threshold may not apply.
11) Note: Recommend TEM-NOB analysis as per EPA recommendations.
12) Note: Asbestos detected but not quantifiable.
13) Note: Multiple identical samples submitted, only one analyzed.
14) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.080%.
15) Note: Analyzed by EPA 600/R-93/116. Point Counting detection limit at 0.125%.
16) Note: This sample contains >10% vermiculite mineral. See Appendix for Recommendations for Vermiculite Analysis.

Recommendations for Vermiculite Analysis:

Several analytical protocols exist for the analysis of asbestos in vermiculite. These analytical approaches vary depending upon the nature of the vermiculite mineral being tested (e.g. un-processed gange, homogeneous exfoliated books of mica, or mixed mineral composites).Please contact your client representative for pricing and turnaround time options available.

iATL recommends initial testing using the EPA 600/R-93/116 method. This method is specifically designed for the analysis of asbestos in bulk building materials. It provides an acceptable starting point for primary screening of vermiculite for possible asbestos.

Results from this testing may be inconclusive. EPA suggests proceeding to a multi-tiered analysis involving wet separation techniques in conjunction with PLM and TEM gravimetric analysis (EPA 600/R-04/004).

For New York State customers, NYSDOH requires disclaimers and qualifiers for various vermiculite containing samples that direct analysis via ELAP198.6 and ELAP198.8 for samples that contain >10% vermiculite mineral where ELAP198.6 may be used to evaluate the asbestos content of the material. However, any test result using ELAP198.6 will be reported with the following disclaimer: “ELAP198.6 method does not remove vermiculite and may underestimate the level of asbestos present in a sample containing >10% vermiculite.”

Further information on this method and other vermiculite and asbestos issues can be found at the following: Agency for Toxic Substances and Disease Registry (ATSDR) www.atsdr.cdc.gov, United States Geological Survey (USGS) www.minerals.usgs.gov/minerals/, US EPA www.epa.gov/asbestos. The USEPA also has an informative brochure "Current Best Practices for Vermiculite Attic Insulation" EPA 747F03001 May 2003, that may assist the health and remediation professional. NYS customers please follow current NYSDOH ELAP requirements per policy on subject of surfacing and vermiculite, May 6, 2016, Testing Requirements for Surfacing Material Containing Vermiculite (https://www.wadsworth.org/sites/default/files/WebDoc/I198_8_02_2.pdf)

The following is a summary of the analytical process outlines in the EPA 600/R-04/004 Method:

1)**Analytical Step/Method:** Initial Screening by PLM, EPA 600R-93/116
Requirements/Comments: Minimum of 0.1 g of sample. ~0.25% for most samples.

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CERTIFICATE OF ANALYSIS

Client: EA Group
7118 Industrial Park
Mentor OH 44060

Client: EAG482

Report Date: 12/6/2021
Report No.: 648304 - PLM
Project: OH44458
Project No.: 2111-00283

2)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

3)**Analytical Step/Method:** Wet Separation by PLM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Floats" only.

4)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Sinks" only.

5)**Analytical Step/Method:** Wet Separation by TEM Gravimetric Technique, EPA R-04/004
Requirements/Comments: Minimum 50g** of dry sample. Analysis of "Suspension" only.
*With advance notice and confirmation by the laboratory.
**Approximately 1 Liter of sample in double-bagged container (~9x6 inch bag of sample).

New York State Department of Health requires that samples originating from NYS that they categorize as Non-friable Organically Bound materials can only be confirmed as None Detected for asbestos by method 198.4. See the table below for a list of those materials. (ENVIRONMENTAL LABORATORY APPROVAL PROGRAM CERTIFICATION MANUAL - ITEM No. 198.1, Revision Date 5/6/16)

*Asphalt Shingles, Caulking, Ceiling Tiles with Cellulose, Duct Wrap, Glazing, Mastic, Paint Chips, Resilient Floor Tiles, Rubberized Asbestos Gaskets, Siding Shingles, Vinyl Asbestos Tile, NOB materials (other that SM-V) with <10% vermiculite, Any material (Friable or NOB other than SM-V) with >10% vermiculite.

Statistically derived uncertainty with any measure should be taken into consideration when reviewing and interpreting all reported data and results. A more comprehensive listing of accuracy, precision, and uncertainty as it impacts this method is available upon request.

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FIELD REQUEST FOR LABORATORY ANALYSIS

Company Name: Kevin Robinette Architecture

Address: 2091 South Oelwein Blvd.
South Euclid, OH 44121

Attention: Kevin Robinette

Customer Number: 0012133

Telephone: 216-276-0276

Fax No:

e-mail: robin.c.kevin@gmail.com

Results Needed By:
Normal: ✓ RUSH:
Priority: (confirm w/ lab)
Date: Time:

Sampled by: Kovell

Project Name: Pre-Reno Survey

Project Number OH 44458

Rush Authorized by:

Project Category: ASB

Special Billing/Reporting:

Is this a VAP project requiring VAP lab analysis? Yes No ✓

Internal Contact: Bowen

CHAIN OF CUSTODY

Relinquished by		Received by	
Name	Date/Time	Name	Date/Time
[illegible]	11/24/21 / 1610	OHIO	112921 0957

EA GROUP CONSULTING DIVISION

REQUEST FOR LABORATORY ANALYSIS - ASBESTOS BULK SAMPLING LOG

Page 1 of 1

Sample No.	Homog. Group	1	2
OH44458-01	A	X	
02	↓	↓	
03	B		
04	↓		
05	C		
06	↓		
07	D		
08	↓		
09	*E		
10	↓		
11	*F		
12	↓		
13	G		
14	↓		
15	H		
16	↓		
17	I		
18	↓		
19	J		
20	↓	↓	

Sample No.	Homog. Group	1	2
OH44458-21	K	X	
22	↓	↓	
23	L		
24	↓		
25	M		
26	↓		
27	N		
28	↓		
29	O		
30	↓		
31	P		
32	↓		
33	Q		
34	↓		
35	R		
36	↓		
37	S		
38	↓		
39	T		
40	↓	↓	

Sample No.	Homog. Group	1	2
OH44458-41	U	X	
42	↓	↓	
43	V		
44	↓		
45	W		
46	↓		
47	*X		
48	↓		
49	*Y		
50	↓		
51	*Z		
52	↓	↓	

Analytes: 1 PLM (standard) 2 PLM (full) Point Count: ____ or ALL (enter # or circle ALL)

Hygienist: Kovell **Sampling Date:** 11/24/21

Comments: *Stop analysis @ 1st positive result

EA GROUP
Environmental Analysis and Management

Kevin Robinette
2091 South Belvoir Blvd.
South Euclid, OH 44121
Kevin Robinette

Client Project: Pre-Reno Survey
EA Group Workorder Number: 211100282
Received on November 29, 2021

The following analytical report contains results as requested for samples submitted to EA Group. The results included in this report have been reviewed for compliance with the analytical methods indicated in this report. All data has been found to be compliant with accepted laboratory protocol, except as noted in the QC narrative. Industrial hygiene reports, air and/or surface concentrations results are based upon sampling information provided by the client. Analyst initials of REF indicate analysis performed at a subcontract facility.

If you have questions, comments or require further assistance regarding this report, please contact your client services representative or one of the individuals listed below.

Data or reporting:
Debbie Lauer - Lab Manager
dlauer@eagroupohio.com

Mike Herbert - General Manager
mherbert@eagroupohio.com

Sample tracking, supplies:
Sample Receiving
sreceiving@eagroupohio.com

Invoice Related:
Bonnie Renbarger - Office Manager
brenbarger@eagroupohio.com

7118 Industrial Park Blvd. , Mentor, Ohio 44060-5314
(440) 951-3514 (800) 875-3514 FAX (440) 951-3774 www.eagroupohio.com

EA GROUP
Environmental Analysis and Management

Laboratory Analytical Report

Kevin Robinette

2091 South Belvoir Blvd.

South Euclid, OH 44121

Attention:
Kevin Robinette

Client Project:

Pre-Reno Survey

OH44458

EA Group Workorder:

2111-00282

Deborah L. Lauer

Laboratory Manager

December 6, 2021

Sample Receive Date 11/29/2021

Sample Listing

EAG Sample Identification	Client Sample Identification	EAG Sample Identification	Client Sample Identification
211100282 - 001	112421-01Pb	211100282 - 002	112421-02Pb
211100282 - 003	112421-03Pb	211100282 - 004	112421-04Pb
211100282 - 005	112421-05Pb		

EA GROUP
Environmental Analysis and Management

Project Narrative
2111-00282

All analyses performed by EA Group were done using established laboratory SOPs. Management has reviewed the data for compliance with the laboratory QA/QC plan and data have been found to be compliant with the laboratory protocols unless otherwise noted below. All results listed for this report relate only to the samples submitted on this work order.

The temperature of the sample(s) upon receipt was 25°C.

Misc. QC Comments

Percent Moisture is used to report results on a dry weight basis.

When necessary, reporting limits of individual samples may be raised due to high concentration of interfering compounds or target analytes, or quantity of sample available for analysis.

pH method note: If this analysis was performed in the laboratory, it may not meet the "immediate analysis" requirement that applies to most wastewater monitoring samples. In such cases, analysis for pH should be done at the time of sampling.

The results listed in this report relate only to the samples submitted to EA Group per the chain of custody.

Data Flag Table

B	The method blank contained a standard laboratory contaminant (Methylene Chloride, Acetone, Hexane, Phthalates, etc.) above the standard laboratory method detection limit. If the analyte is present in the sample at a concentration up to ten times the blank level, the result is reported with a "B" indicating method blank contamination. Samples will be reported without a "B" if the analyte concentration in the sample is greater than ten times the blank level.
E	An analytical result marked with an "E" indicates the result reported is above the high end limit of the calibration curve and should be considered an estimated concentration.
DIL	Due to matrix interference or high analyte concentration, a dilution was required. The spikes and/or surrogates results could not be quantitated and therefore marked "DIL".
J	An analytical result marked with a "J" indicates the result reported was below the standard reporting limit and above the method detection limit. As the observed level approaches the MDL there is an increasing probability of a false positive response.
MI	Analytical results marked as "MI" indicate that due to inherent matrix interference, the result could not be quantitated.
#	Results flagged "#" indicate the reported result may be outside allowable permit levels as provided by the client, when applicable.
NA	A result or field marked as "NA" indicates that it was not applicable for this project.
Q	A quality control result flagged with a "Q" indicates the percent recovery was outside the acceptable range as determined by the laboratory.

** Positive results for this analyte represent a probable combination of 3-Methylphenol (m-Cresol) and 4-Methylphenol (p-Cresol).

EA GROUP
Environmental Analysis and Management

EAG Workorder: 2111-00282

Client Project: Pre-Reno Survey

Client ID: 112421-01Pb **Date/Time Sampled:** 11/24/2021/ 00 **Received:** 11/29/2021
EAG ID: 2111-00282-1

Parameter	CAS #	Result	Reporting Limit	Units	Prep Date	Analysis Date	Time	Analyst
Lead in Paint: SW846-6010B	7439-92-1	**31.7**	25	mg/kg	12/02/2021	12/03/2021		CMB

Client ID: 112421-02Pb **Date/Time Sampled:** 11/24/2021/ 00 **Received:** 11/29/2021
EAG ID: 2111-00282-2

Parameter	CAS #	Result	Reporting Limit	Units	Prep Date	Analysis Date	Time	Analyst
Lead in Paint: SW846-6010B	7439-92-1	<25	25	mg/kg	12/02/2021	12/03/2021		CMB

Client ID: 112421-03Pb **Date/Time Sampled:** 11/24/2021/ 00 **Received:** 11/29/2021
EAG ID: 2111-00282-3

Parameter	CAS #	Result	Reporting Limit	Units	Prep Date	Analysis Date	Time	Analyst
Lead in Paint: SW846-6010B	7439-92-1	<25	25	mg/kg	12/02/2021	12/03/2021		CMB

Client ID: 112421-04Pb **Date/Time Sampled:** 11/24/2021/ 00 **Received:** 11/29/2021
EAG ID: 2111-00282-4

Parameter	CAS #	Result	Reporting Limit	Units	Prep Date	Analysis Date	Time	Analyst
Lead in Paint: SW846-6010B	7439-92-1	<25	25	mg/kg	12/02/2021	12/03/2021		CMB

Client ID: 112421-05Pb **Date/Time Sampled:** 11/24/2021/ 00 **Received:** 11/29/2021
EAG ID: 2111-00282-5

Parameter	CAS #	Result	Reporting Limit	Units	Prep Date	Analysis Date	Time	Analyst
Lead in Paint: SW846-6010B	7439-92-1	**27.7**	25	mg/kg	12/02/2021	12/03/2021		CMB

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FIELD REQUEST FOR LABORATORY ANALYSIS

Company Name: Kevin Robinette Architecture

Address: 2091 South Belvoir Blvd.
South Euclid, OH 44121

Attention: Kevin Robinette

Customer Number: 0012133

Telephone: 216-276-0276

e-mail(s): robin.c.kevin@gmail.com

Results Needed By: _____

Normal: ✓ **RUSH:** _____

Priority: _____ (confirm w/ lab)

Date: _____ Time: _____

Sampled by: Kovell

Project Name: Pre-Reno Survey

Project Number OH 44458

Rush Authorized by: _____

Project Category: ENV

Special Billing/Reporting: _____

Is this a VAP project requiring VAP lab analysis? Yes _____ No ✓

Is this a BUSTR project requiring BUSTR lab analysis? Yes _____ No ✓

Internal Contact(s): Bowen

CHAIN OF CUSTODY

Relinquished by		Received by	
Name	Date/Time	Name	Date/Time
MJCM	11/24/21 / 1610	AHD	112921 0952

EA GROUP FIELD OPERATIONS - REQUEST FOR LABORATORY ANALYSIS

Page: 1 of 1

Sample No. OH	Split ID	Date/Time Collected	Matrix/ Media	Area/Vol. (units)	1	2	3	4	5	6	7	8	9	10	11	12	Comments	VAP? BUSTR?
112721 - 01PB		11/27/21	B		X													N
02																		
03																		
04																		
05																		

Media: A1 Air (25 mm) | A2 Air (37 mm) | A3 Air (sorbent) | A4 Air (badge) | A5 Air (bag) | A6 Air (impinger) | B Bulk | R/CC Char. Canister | R/AT Alpha track | S Soil | SL Sludge/Slurry | SW Swab | O Oil | W Water/Liquid | DW Drinking Water

Sample condition upon receipt:
Intact ____
Not Intact ____

Analytes: 1 PB 2 ____ 3 ____ 4 ____ 5 ____ 6 ____ 7 ____ 8 ____ 9 ____ 10 ____ 11 ____ 12 ____