SECTION 02 2600

HAZARDOUS MATERIALS ASSESSMENT

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. The Hazardous Materials Assessment for the proposed construction is included with these Contract Documents.

1.2 USE OF INFORMATION

A. The Hazardous Materials Assessment is provided for the Contractor's information and use in the planning and performance of work in areas containing hazardous or potentially hazardous materials as outlined in Paragraph 1.03.

1. The information provided in the Hazardous Materials Assessment is based on samples collected in various locations of the building. Thus, the Owner and/or its Representative cannot guarantee or warrant that actual conditions encountered might not vary from the information presented in these reports.
2. The data reported in the Hazardous Materials Assessment is accurate to the best of the Owner's and it's Representative's knowledge. The requirements contained in these specifications and in the relevant state and federal regulations pertaining to the performance of work in areas containing hazardous or potentially hazardous materials provide guidance for the contractor for performance of work in these areas. The Owner and its Representative disclaim all responsibility for the Contractor's erroneous conclusions regarding the information presented in these reports; the requirements contained in these specifications; and the requirements of applicable state and federal regulations pertaining to performance of work in these areas.
3. The Contractor shall be responsible for obtaining additional information if Contractor deems it necessary to carry out the work.

B. It is highly recommended that the contractor visit the site to acquaint themselves with existing conditions.

C. Attached Hazardous Materials Assessment

1.3 HAZARDOUS MATERIALS NOTIFICATION:

A. Notification of Potential Hazards: Asbestos, lead and other potentially hazardous materials are present in the building that may impact the work of all trades. Regulated air contaminants, including asbestos and lead, are also present in settled and concealed dust in and on architectural, structural, mechanical, and electrical components or systems throughout the building. All trades shall coordinate with other trades and conduct their work to prevent worker exposure or site contamination. Refer to Specification Divisions 0, 1 and 2 for specific information concerning disturbing, removing, and disposing of these materials and the installation of new materials or components. This notification is provided in accordance with EPA and OSHA requirements.

PART 2 - PRODUCTS
Not Used

PART 3 - EXECUTION
Not Used

HAZARDOUS MATERIALS ASSESSMENT

SNOWDEN ADMINISTRATIVE OFFICE BUILDING
ALASKA COURT SYSTEM

ANCHORAGE, ALASKA

Surveyed
February 18, 2022 & March 1, 2022

Report Date
April 1, 2022

EHS-ALASKA, INC.
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HAZARDOUS MATERIALS ASSESSMENT
SNOWDEN ADMINISTRATIVE OFFICE BUILDING MECHANICAL UPGRADES

ANCHORAGE, ALASKA

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HAZARDOUS MATERIALS ASSESSMENT
SNOWDEN ADMINISTRATIVE OFFICE BUILDING MECHANICAL UPGRADES

ANCHORAGE, ALASKA

OVERVIEW

The Snowden Administrative Office Building, located in Anchorage, Alaska, was surveyed for the presence of asbestos-containing materials (ACM), and other potentially hazardous materials as a part of the design services for the Mechanical Upgrades Project for the Alaska Court System. The survey also provided a "good faith" inspection for hazardous materials that may be disturbed during the construction. The proposed work includes the disturbance, demolition, removal, and disposal of lead-containing paints and/or lead-containing materials that is incidental to the renovation and remodeling project. Mr. John H. Lamont and Mr. Chris T. Ottosen of EHS-Alaska, Inc. (EHS-Alaska) conducted the inspections in February and March of 2022. It will be the contractor's responsibility to take this baseline data, and to conduct hazardous materials removal in compliance with all regulatory requirements. This assessment includes data from previous inspections of the facility.

A. GENERALIZED REQUIREMENTS FOR HAZARDOUS MATERIALS

Potentially hazardous materials have been identified in Snowden Administrative Office Building that will be affected by the proposed renovations. Those materials include asbestos, lead, polychlorinated bi-phenyls (PCBs), mercury, and radioactive materials. Not all materials were tested for potentially hazardous components, other potentially hazardous materials, including those exterior to the building, such as contamination from underground fuel tanks may be present, but are not part of this report.

Buildings or portions of buildings that were constructed prior to 1978 which are residences, or contain day care facilities, kindergarten classes or other activities frequently visited by children under 6 years of age are classified as *child occupied facilities*. All work which is NOT classified as "minor repair and maintenance activities" (as defined by the regulations), that takes place in the *"child occupied"* portions of facilities must comply with the requirements of 40 CFR 745. This building is not classified as a *child occupied facility* and therefore the requirements of 40 CFR 745 are not applicable.

Only the materials that will be directly affected by this project are required to be removed. The quantities and types of materials are incorporated into the design documents for this renovation. The removal and disposal of potentially hazardous materials are highly regulated, and it is anticipated that removal and disposal of asbestos, lead and chemical hazards will be conducted by a subcontractor to the general contractor who is qualified for such removal. It is anticipated that the general contractor and other trades will be able to conduct their work using engineering controls and work practices to control worker exposure and to keep airborne contaminants out of occupied areas of the building. Refer to Section 01 35 45, Airborne Contaminant Control.

Settled and concealed dusts in areas not subject to routine cleaning are present throughout the building, including the roof, and inside and on top of architectural, mechanical, electrical, and structural elements, and those dusts have been identified to contain regulated air contaminants. This should not be read to imply that there is an existing hazard to building occupants (normal occupants of the building as opposed to construction workers working in the affected areas).

However, depending on the specific work items involved and on the means and methods employed when working in the affected areas, construction workers could be exposed to regulated air contaminants from those dusts in excess of the OSHA Permissible Exposure Limits (PELs).

The settled and concealed dusts were examined by an EPA Certified Building Inspector but were not sampled. The inspector determined that the dusts are not “asbestos debris” from an asbestos-containing building material (ACBM). Based on similar sampling from similar buildings, the inspector also determined that the dusts are unlikely to contain more than one percent (1%) asbestos by weight, and therefore are not an asbestos-containing material (ACM). Reference 40 CFR 763.83.

NOTE: Asbestos-containing roofing debris and remnant puck mastics were noted above the suspended ceiling system Stairs/Corridor 206, and it is likely that the dusts in these areas may contain more than one percent (1%) asbestos by weight, and therefore would be classified as an asbestos-containing material (ACM). Reference 40 CFR 763.83.

“Awareness training” (typically 2 hours) and possibly respiratory protection will be required for all Contractor Personnel who will be disturbing the dusts. The extent of the training and protective measures will depend upon the airborne concentrations measured during air monitoring of the contractors work force, which depends on the means and methods employed to control the dusts. The air monitoring may be discontinued following a “negative exposure assessment” showing that worker exposures are below the OSHA permissible exposure limits for the type of work and means and methods employed. Previous air monitoring from similar jobs with similar conditions may be used as historical data to establish a “negative exposure assessment.”

B. BUILDING DESCRIPTION

The Snowden Administrative Office Building was originally the Anchorage Times Building and was constructed in 1946. In 1950 a press room addition was added to the west side of the original building and in 1956 a second level was added over the 1946 and 1950 construction. In 1967 the second level was remodeled and in 1968 a 3-story addition was added to the east side of the original 1946 construction. In 1976 there was a mail room addition added to the east of the 1968 addition completing what is now the footprint of the Snowden Administrative Building.

Another renovation occurred in 1991 when the building was still being operated by the Anchorage Times, but the record drawings for the 1995 demolition and renovation project shows that the Alaska Court System was occupying the building. Since then, there was a major renovation in 1998 which included asbestos abatement of pipe fittings, pipe insulation, flooring, and sprayed-on ceiling texture in portions of all eras of construction except the 1976 mail room addition on the east side. However, it was reported that there was a boiler room found under the first floor (likely the 1946 section) that was abandoned in place with all of the ACBM remaining and capped off at the first floor. The 1998 project also removed identified PCB-containing electrical components such as transformer, switches, circuit breakers, and ballast. Although the 1998 demolition and renovation project was extensive, it is expected that ACM pipe insulation will be found in inaccessible areas.

A minor renovation occurred 2004-2006 and a reroof project over the 2-story portion occurred in 2018.

Heating is supplied by 2 natural gas boilers that were refurbished in 1996. The heating system included a mixture of fin tube, unit heaters, cabinet unit heaters, and heat distribution heat piping. Some of the assumed ACM cementitious insulation over the heat piping was previously abated but some was identified in the areas that could not be accessed and it is likely that there will be more hidden in all portions of the building affected by this project where previous abatement was incomplete or did not occur.

The original vinyl asbestos flooring was reportedly removed during the 1998 renovation and carpet was currently installed throughout on concrete; ceramic tiles and sheet vinyl flooring in the restrooms was present. The concrete floors have a smooth plaster finish on the bottom side as seen from above the suspended ceiling panels and it is likely the finish that was installed in 1998 after the spray-on ceiling texture was abated according to abatement drawings. Remnant "puck" mastic was noted on top of some of the suspended ceiling tiles from the now removed glue-on ceiling tiles. Walls were finished with gypsum wallboard and a non-ACM medium orange peel finish and some of the concrete walls had what appeared to be a spray-applied cementitious texture.

C. SAMPLING AND ANALYSIS

1. Asbestos-Containing Materials

The survey included sampling of suspect ACM materials that had not been sampled in prior asbestos surveys, or samples of materials where previous sampling had been inconsistent. Additional testing of materials pertinent to the project, including asbestos and lead in dust samples was conducted and is included in this report.

The samples were analyzed for the presence of asbestos using polarized light microscopy (PLM), analysis, as recommended by EPA, to determine the composition of suspected ACMs (EPA method 600/M4-82-020). Only materials containing more than 1% total asbestos were classified as "asbestos-containing" based on EPA and OSHA criteria. Samples analyzed to have less than 10% asbestos were "point-counted" by the laboratory for more accuracy. Samples listed as having a "Trace by Point Count" had asbestos fibers found in the material, but the fibers were not present at the counting grids. Table 1 in Part D below contains a summary list of the asbestos bulk samples and the applicable results.

The Bulk Asbestos samples were analyzed for asbestos content by International Asbestos Testing Laboratories (IATL), Mt. Laurel, New Jersey a National Voluntary Laboratory Accreditation Program (NVLAP) accredited laboratory.

EPA regulations under 40 CFR 763 require the use of PLM to determine whether or not a material contains asbestos. While PLM analysis does a good job for most materials, it does have some limitations. Fibers may be undetectable if their small size prevents visibility under a standard optical microscope, or if they are bound in an organic matrix to the point that the fibers are obscured. At the discretion of the building inspector and the client, some types of samples may be analyzed or re-analyzed by what is called Transmission Electron Microscopy for Non-Friable Organically Bound (TEM NOB) materials. TEM NOB is the definitive method for determining if asbestos is present, but TEM NOB use is not required by the EPA. TEM NOB analysis was not done for this project.

Field survey data sheets and laboratory reports of the bulk samples are included in Appendix A. Drawings showing sample locations are included as Appendix D.

2. Lead-Containing Materials

Nearly all surfaces in the building were coated with paint and most surfaces had been repainted. EHS-Alaska tested representative paints throughout the affected areas of the building using an Heuresis Pb200i X-Ray Fluorescence (XRF) lead paint analyzer (Serial # 1770 with software version 4.0-21). The lead testing conducted was not a Lead-Based Paint Inspection or Screening as defined by Department of Housing and Urban Development (HUD) or EPA regulations but was done to test surfaces that may be representative of those likely to be affected by this project. If surfaces and materials other than those tested are identified, the Contractor shall test and treat appropriately. Refer to the Lead Analyzer Test Results Table in Appendix C that identifies the surfaces tested, and the results. All surfaces affected by this project may not have been tested and therefore additional sampling may be required to refute the presence of lead-containing materials regulated by 29 CFR 1926.62 or lead-based paints in child occupied facilities regulated by 40 CFR 745. The Lead Test Locations are shown in Appendix D.

The survey included wipe samples of dust in the building taken in March 2022. The lead dust samples were typically taken adjacent to the dust samples for asbestos described above. Dust was collected using ASTM E1728-99 protocol from a surface that measured 100 square centimeters (1 sampled was irregular and measure 5.7 cm x 20.3 cm), using a towelette, manufactured especially for lead dust sampling. The dust on the wipe was then analyzed at the laboratory using Flame Atomic Absorption Spectrometry, (FAAS), according to the EPA SW 846:6010:7420 method. The lead content was reported as a concentration of micrograms of lead per square foot of surface sampled ($\mu g/ft^2$). Table 3 in Part D below contains a summary list of the lead dust samples and the applicable results.

EPA and HUD have defined lead-based paint as any paint or other surface coating that contains lead equal to or in excess of 1.0 milligram per square centimeter (mg/cm^2) or 0.5 percent by weight. XRF results are classified as positive (lead is present at 1.0 mg/cm^2 or greater), negative (less than 1.0 mg/cm^2 of lead was present) or inconclusive (the XRF could not make a conclusive positive or negative determination). Tests that were invalid due to operator error are shown as void tests.

A Performance Characteristic Sheet (PCS) for the Heuresis Pb200i is available upon request. This PCS data provides supplemental information to be used in conjunction with Chapter 7 of the “HUD Guidelines”. Performance parameters provided in the PCS are applicable when operating the instrument using the manufacturer’s instructions and the procedures described in Chapter 7 of the “HUD Guidelines”. The instrument was operated in accordance with manufacturer’s instructions and Chapter 7 of the HUD Guidelines. No substrate correction is required for this instrument. There is no inconclusive classification for this instrument when using the 1.0 mg/cm^2 threshold.

3. Testing of Paints and Sealants for PCB’s

No testing of paints or sealants for PCB’s was authorized for this project, and no sampling occurred.

D. SURVEY RESULTS

1. Asbestos-Containing Materials

The following Table 1A lists the samples taken in February 2022 at the Snowden building, and the results of the laboratory analysis. Asbestos field survey data sheets and laboratory reports are included as Appendix A. Refer to Appendix D for sample locations.

TABLE 1A

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
820-0222-A01	LCT-1: 2' x 4' straight sided ceiling tile with high density of random fissures 1/4"-1/2" long and 1/16"-1/8" holes.	First floor: Micrographics Room 149 at entry way from Audio Area Room 145. Photo 48	None Detected
820-0222-A02	White joint compound	First floor: Vestibule 150 above egress door on gypsum wallboard wall (GWB). Photo 56	None Detected
820-0222-A03	WT-1: spray-applied white wall texture, medium orange peel appearance	First floor: Vestibule 150, from overspray above ceiling grid above the exit door. Photo 56	None Detected
820-0222-A04	WT-2: spray-applied white cementitious-like wall texture	First floor: Work/Break Area Room 152, north end of the east wall above hall opening, above ceiling grid, on west face of the original 1946 era poured concrete wall. Photo 87	None Detected
820-0222-A05	White joint compound	First floor: Work/Break Area Room 152, north end of the east wall above hall opening, on GWB on metal ceiling grid mounted on the textured concrete. Photo 88	None Detected
820-0222-A06	Gypsum wall board	First floor: Work/Break Area Room 152, north end of the east wall above hall opening, on metal ceiling grid mounted on the textured concrete. Photo 88	None Detected
820-0222-A07	Black dampproofing on interior face of original 1946 era concrete wall	First floor: east face of concrete wall between Work/Break Area Room 152 and hall to the east, exposed above the ceiling grid. Photo 109	None Detected

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
820-0222-A08	White plaster finish and scratch coat	First floor: east face of concrete wall between Work/Break Area Room 152 and hall to the east, on the furred out 5/8" thick plaster board, above the ceiling grid. Photo 112	None Detected
820-0222-A09	White plaster finish coat	First floor: east face of concrete wall between Work/Break Area Room 152 and hall to the east, on the furred out 5/8" thick plaster board, above the ceiling grid. Photo 112	None Detected
820-0222-A10	Pliable grey-green duct seam sealant	First floor hall between 160 and 153, above ceiling on large E-W aligned round metal duct seam, near hanger. Photo 118	None Detected
820-0222-A11	Pliable grey-green duct seam sealant on circular ductwork	First floor hall between 160 and 153, above ceiling on joint between the large supply air duct and smaller round duct to 153. Photo 119	None Detected
820-0222-A12	LCT-1: 2' x 4' straight sided ceiling tile with high density of random fissures 1/4"-1/2" long and 1/16"-1/8" holes.	HR Files Room 153, ceiling tile at the south end of the west portion of the ceiling. Photo 125	None Detected
820-0222-A13	White plaster finish and scratch coat	HR Open Office Area 162, east end of north wall on plaster wall with wire mesh. Photo 137	None Detected
820-0222-A14	White plaster finish coat adjacent	HR Open Office Area 162, east end of north wall on plaster wall with wire mesh. Photo 137	None Detected
820-0222-A15	Black dampproofing on interior face of original 1946 era concrete wall	HR Open Office Area 162. North end of east wall on original 1946 era concrete wall. Photo 138	None Detected
820-0222-A16	LCT-2: 2' x 4' with beveled edges and false 2' x 2' appearance with 1/8" oblong holes and 1/16" dots	First floor: Lobby Room 134 at stairwell access corridor. Photo 142	None Detected

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
820-0222-A17	WT-2: spray-applied cementitious-like wall texture	Conference Room 126, SW corner inside the pipe chase, on the east face of the original 1946 era concrete wall. Photo 184	None Detected
820-0222-A18	Pliable white sealant	Conference Room 126, SW corner inside the pipe chase, on waste clean-out. Photo 190	None Detected
820-0222-A19	WT-1: spray-applied wall texture, medium orange peel texture **IGNORE SILVER FOIL**	Conference Room 126, SW corner inside the pipe chase on pipe insulation, Photo 191	None Detected
820-0222-A20	LCT-2: 2' x 4' with beveled edges and false 2' x 2' appearance with 1/8" oblong holes and 1/16" dots	First floor: Conference Room 126 ceiling near center of north wall. Photo 178	None Detected
820-0222-A21	Pliable grey-green duct seam sealant	Men's Restroom 128 on bottom side of rectangular duct near the penetration through the south concrete wall, above the ceiling. Photo 198	None Detected
820-0222-A22	Pliable red fire caulk	Men's Restroom 128 around insulated pipe penetration in south textured concrete wall, above the ceiling. Photo 199	None Detected
820-0222-A23	White joint compound	Men's Restroom 128. Above ceiling grid near center of south wall on GWB. Photo 200	None Detected
820-0222-A24	Remnant "hard fitting" pipe insulation	Elevator Lobby Area 133. Above suspended ceiling in NE portion of lobby at abandoned pipe penetration in concrete ceiling between first and second floors. Photo 238	None Detected
820-0222-A25	Black dampproofing on interior face of original 1946 era concrete wall	Corridor 143 above suspended ceiling, on concrete wall, south side near wall common to stair 141. Photo 245	None Detected

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
820-0222-A26	LCT-3: 2’ x 4’ with 3/16” wide x 1/4”-2” long squiggly E-W directional fissures and high density 1/16” holes	Supplies/IT Area 147: ceiling along room 147A, left of door. Photo 250	None Detected
820-0222-A27	WT-2: spray-applied cementitious-like wall texture	Corridor 143 above suspended ceiling, on concrete beam, south side near wall common to stair 141. Photo 246	None Detected
820-0222-A28	White “popcorn-like” spray-applied ceiling texture	Supplies/IT Area 147 near center of area, NE of center column on concrete ceiling above suspended ceiling. Photo 255	None Detected
820-0222-A29	White plaster finish coat	Supplies/IT Area 147 near center of area, NE of center column on concrete ceiling above suspended ceiling. Photo 255	None Detected
820-0222-A30	Gypsum board patch	Supplies/IT Area 147 near center of NW quadrant above suspended ceiling at hole in concrete ceiling/floor exhibiting water damage. Photo 256	None Detected
820-0222-A31	White joint compound	Supplies/IT Area 147 near center of NW quadrant above suspended ceiling along paper taped seam in GWB at hole in concrete ceiling/floor exhibiting water damage. Photo 256	None Detected
820-0222-A32	White plaster finish coat on concrete ceiling	General Services Area 148 NE portion of the SW quadrant above suspended ceiling near concrete seam edge. Photo 261	None Detected
820-0222-A33	Unfinished gypsum board	General Services Area 148: left of center above suspended ceiling along the north wall common to 153, from the cut out section of the GWB hard lid attached to wood floor joists. Photo 269	None Detected

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
820-0222-A34	White joint compound	General Services Area 148: left of center above suspended ceiling along the north wall common to 153, from the cut out section of the GWB hard lid attached to wood floor joists. Photo 269	None Detected
820-0222-A35	Remnant “hard fitting” pipe insulation	General Services Area 148: left of center above suspended ceiling along the north wall common to 153, on pipe in joist bay above the GWB hard lid. Photo 270	None Detected
820-0222-A36	Remnant “hard fitting” pipe insulation	General Services Area 148: laying on N-S aligned I-beam flange above suspended ceiling near center of north wall common to 153. Photo 270	None Detected
820-0222-A37	LCT-1: 2’ x 4’ straight sided ceiling tile with high density of random fissures 1/4”-1/2” long and 1/16”-1/8” holes.	General Services Area 148: on ceiling near center of north wall common to 153. Photo 272	None Detected
820-0222-A38	Overspray from WT-1: spray-applied texture, medium orange peel appearance	General Services Area 148 above ceiling grid on east face of built-up column with metal studs covered with GWB near middle of room. Photo 281	None Detected
820-0222-A39	White joint compound	General Services Area 148 above ceiling grid on east face of built-up column with metal studs covered with GWB near middle of room. Photo 281	None Detected
820-0222-A40	White plaster finish coat	General Services Area 148 above ceiling grid, south of built-up column above suspended ceiling on concrete above metal I-beam. Photo 280	None Detected
820-0222-A41	White joint compound	Audio Area 145 on north face of north built-up column with GWB, above suspended ceiling. Photo 284	None Detected

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
820-0222-A42	WT-2: spray-applied cementitious-like wall texture	Audio Area 145 on east wall above door to Corridor 143, west face of the original 1946 era concrete walls. Photo 288	None Detected
820-0222-A43	Pliable grey-green duct seam sealant.	Audio Area 145 on seam of round duct at 22 degree joint above suspended ceiling, north of AHU-5. Photo 282	None Detected
820-0222-A44	Pliable grey seam sealant	Audio Area 145. on west side of air handling unit 5, in SE quadrant above suspended ceiling. Photo 291	None Detected
820-0222-A45	Pliable grey-green duct seam sealant	Corridor 303 on seam of round duct near center of corridor, west of door above ceiling. Photo 363	None Detected
820-0222-A46	White rope gasket; hard red mastic,	Mechanical Room 307 on boiler burner B-2 housing. Photo 357	None Detected
820-0222-A47	White joint compound	Facilities Managers Office 305 north GWB wall above suspended ceiling west of column. Photo 365	None Detected
820-0222-A48	Remnant white joint compound	Facilities Managers Office 305 on rectangular duct above suspended ceiling at north wall west of column. Photo 365	None Detected
820-0222-A49	WT-1: spray-applied wall texture, medium orange peel appearance	Facilities Managers Office 305 Overspray on duct. Photo 365	None Detected
820-0222-A50	LCT-4: 2’ x 4’ with 1/16” wide x 1/8”-1/2” long thin randomly dispersed fissures and 1/32”-1/8” holes	Facilities Managers Office 305 ceiling along north GWB wall west of column. Photo 367	None Detected
820-0222-A51	White joint compound	Facilities Managers Office 305 near room center on GWB for metal stud wall above the ceiling grid, near the metal hanging joist. Photo 366	None Detected

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
820-0222-A52	Unfinished gypsum wallboard	Facilities Managers Office 305 near room center on GWB for metal stud wall above the ceiling grid. Photo 369	None Detected
820-0222-A53	Pliable grey seam seal	Mechanical Room 307 SE corner between sections of AHU-1. Photo 378	1.6% Chrysotile
820-0222-A54	White, tight weave coated duct wrap from duct leaving AHU-1; and mastic-like backing on wrap **DO NOT ANALYZE YELLOW FIBERGLASS**	Mechanical Room 307 on duct running south from AHU-1; and mastic-like backing on wrap. Photo 370	None Detected
820-0222-A55	Thick large woven duct white wrap. **DO NOT ANALYZE YELLOW FIBERGLASS**	Third floor: Mechanical Room 307 wrap on AHU-1, top along south end. Photo 371	None Detected
820-0222-A56	White, tight weave coated duct wrap; with mastic-like backing on wrap. **DO NOT ANALYZE YELLOW FIBERGLASS**	Mechanical Room 307 on duct between AHU-1/AHU-2. Photo 373	None Detected
820-0222-A57	Tan duct wrap mastic. **DO NOT ANALYZE YELLOW FIBERGLASS**	Mechanical Room 307 on duct between AHU-1/AHU-2 between duct and insulation. Photo 375	None Detected
820-0222-A58	Tan duct wrap mastic. **DO NOT ANALYZE YELLOW FIBERGLASS**	Third floor: Mechanical Room 307 holding insulation to AHU-2, south side. Photo 374	None Detected
820-0222-A59	Pliable beige seam seal	Mechanical Room 307, panel seam on north side of between sections of AHU-2. Photo 379	4.1% Chrysotile
820-0222-A60	Tan duct wrap mastic	Third floor: Mechanical Room 307 duct along north wall, between duct insulation and duct. Photo 380	None Detected
820-0222-A61	White joint compound; gypsum wall board	Mechanical Room 307, north end of west wall on unfinished GWB wall. Photo 381	J.C. = 2.9% Chrysotile; None Detected in GWB
820-0222-A62	White fire-eye sealant for boiler B-1	Mechanical Room 307 north side of Boiler B-1. Photo 382	None Detected

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
820-0222-A63	Hard black boiler breech sealant from boiler B-1	Mechanical Room 307 west end of north side of boiler B-1. Photo 383	None Detected
820-0222-A64	Red fire caulk	Third floor: Mechanical Room 307 at concrete floor penetration near center of east wall. Photo 384	None Detected
820-0222-A65	White joint compound	Mechanical Room 307: South end of west untextured GWB wall. Photo 386	2.1% Chrysotile
820-0222-A66	Unfinished gypsum wall board at west wall in mechanical room. Lab also reported joint compound	Mechanical Room 307: South end of west untextured GWB wall. Photo 387	J.C. = 2.3% Chrysotile; None Detected in GWB
820-0222-A67	Brown wall seam mastic	Mechanical Room 307 south end of east wall between concrete column and vertical wood trim. Photo 388	None Detected
820-0222-A68	Remnant grey ceiling grid mastic	Mechanical Room 307 south end of east wall south of concrete column . Photo 389	2.5% Chrysotile
820-0222-A69	Thick-weaved white coated wrap	Mechanical Room 307 south half of east wall above B-2, north of concrete column near duct penetration in CMU wall. Photo 390	None Detected
820-0222-A70	Pliable white door frame sealant	Mechanical Room 307 at south door between door frame and concrete wall. Photo 391	None Detected
820-0222-A71	White wall texture	Mechanical Room 307 south end of east CMU wall. Photo 396	None Detected
820-0222-A72	White wall texture	Mechanical Room 307 north end of east CMU wall. Photo 397	None Detected
820-0222-A73	White wall texture	Mechanical Room 307 center of east CMU wall. Photo 398	None Detected
820-0222-A74	White and grey concrete coating	Mechanical Room 307 base of concrete column at the south end of the west wall. Photo 399	None Detected

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
820-0222-A75	White joint compound	Elevator Lobby 301 above the suspended ceiling grid, north wall, west of door to stairs 300 on paper taped seam in GWB. Photo 400	None Detected
820-0222-A76	Pliable black built-up roof material	Elevator Lobby 301 above suspended ceiling in elevator lobby. Photo 401	None Detected
820-0222-A77	White joint compound	Supply Room 302: East end of north wall, above suspended ceiling on textured GWB. Photo 402	2.6% Chrysotile
820-0222-A78	Black asphalt-impregnated fiber board	Supply Room 302 center of north wall. Exposed above suspended ceiling. Photo 403	None Detected
820-0222-A79	Pliable black mastic for asphalt-impregnated fiber board	Supply Room 302 center of north wall. Exposed above suspended ceiling. Photo 403	None Detected
820-0222-A80	Hard lay-in ceiling tile	North vestibule into Mechanical Room 307: above “attic hatch.” Remnant pieces of former ceiling tiles laying on new metal-framed ceiling with GWB. Photo 448	None Detected
820-0222-A81	White plaster finish coat on exterior of building	West exterior wall adjacent to Mechanical Room 307 along north edge of wall to Stairwell 311. Photo 468	None Detected
820-0222-A82	Black pliable “corner-seal” at bird screen	West exterior wall adjacent to Mechanical Room 307 along north edge of northern outside supply air intake louver. Photo 469	None Detected
820-0222-A83	White pliable “corner-seal” at louver frame	West exterior wall adjacent to Mechanical Room 307 along south edge of combustion intake louver. Photo 470	None Detected
820-0222-A84	White pliable “corner-seal” at bird screen	West exterior wall adjacent to Mechanical Room 307. south edge of outside supply air intake louver. Photo 471	None Detected

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
820-0222-A85	Hard black seal at parapet to wall	West exterior wall adjacent to Mechanical Room 307 between the combustion air and outside air louver. Photo 472	None Detected
820-0222-A86	White plaster finish coat on poured concrete wall	West exterior wall adjacent to Mechanical Room 307, wall section south of the southern outside air louver. Photo 476	None Detected
820-0222-A87	White plaster finish and scratch coat on poured concrete wall	West exterior wall adjacent to Mechanical Room 307, wall section between the two outside intake air louvers south of the combustion air louver. Photo 477	None Detected
820-0222-A88	Hard white sealant at conduit penetration	West exterior wall adjacent to Mechanical Room 307, wall section south of the southern outside air louver. Photo 478	None Detected
820-0222-A89	Crumbly white furnace seam seal	Roof of Mechanical Room 307: Exterior furnace on north side of the mechanical room roof. Photo 487	None Detected
820-0222-A90	Crumbly grey furnace seam seal	Roof of Mechanical Room 307: Exterior furnace on north side of the mechanical room roof. Photo 488	None Detected
820-0222-A91	Pliable grey duct flange sealant	Roof of Mechanical Room 307. Duct on roof from AHU-1, north rectangular exhaust duct. Photo 496	None Detected
820-0222-A92	Hard black sealant at flashing on parapet wall	Roof of Mechanical Room 307. West parapet wall on roof, flashing connection near ladder. Photo 497	None Detected
820-0222-A93	Pliable grey-green duct seam sealant on circular ductwork	Supply Room 302: above suspended ceiling. Circular E-W aligned duct. Photo 498	None Detected
820-0222-A94	Pliable grey-green duct seam sealant on rectangular ductwork	Supply Room 302: above suspended ceiling. Rectangular N-S aligned duct. Photo 499	None Detected

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
820-0222-A95	Tan duct wrap mastic holding insulation to duct **DO NOT ANALYZE YELLOW FIBERGLASS**	Corridor 409: above suspended ceiling at north end of hall on N-S aligned duct. Photo 515	None Detected
820-0222-A96	LCT-2: 2' x 4' with beveled edges and false 2' x 2' appearance with 1/8" oblong holes and 1/16" dots	Corridor 409: at north end of hall across from Janitorial Room 212, south of Conference Room 213. Photo 516	None Detected
820-0222-A97	Hard tan puck mastic **DO NOT ANALYZE CONCRETE**	Stairs/Corridor 206: above suspended ceiling on east side of 1946 era poured concrete wall. Photo 531	2.4% Chrysotile
820-0222-A98	Remnant white joint compound	Stairs/Corridor 206: above suspended ceiling on west side of 1946 era poured concrete wall. Photo 542	None Detected
820-0222-A99	Remnant gypsum wall board	Stairs/Corridor 206: above suspended ceiling on west side of 1946 era poured concrete wall. Photo 542	None Detected
820-0222-A100	Hard black built-up roof material above suspended ceiling	Stairs/Corridor 206: above suspended ceiling on west side of 1946 era poured concrete wall. Photo 534	15% Chrysotile
820-0222-A101	White joint compound	Open Office Space Area Second Floor: southeast quadrant of open office space area adjacent to Telephone Room 232. Photo 545	None Detected
820-0222-A102	LCT-1: 2' x 4' straight sided ceiling tile with high density of random fissures 1/4"-1/2" long and 1/16"-1/8" holes.	Open Office Space Area Second Floor: southeast quadrant of open office space area adjacent to Telephone Room 232. Photo 553	None Detected
820-0222-A103	Pliable grey-green duct seam sealant on rectangular ductwork	Open Office Space Area Second Floor: southeast quadrant of open office space area adjacent to Telephone Room 232 Photo 553	None Detected
820-0222-A104	Pliable off-white sealant on air handling unit-4	Fan Room 229F: face of mechanical equipment, on west side of room. Photo 573	None Detected

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
820-0222-A105	Pliable white seam seal on air handling unit-4	Fan Room 229F: seam of mechanical equipment, on west side of room. Photo 574	None Detected
820-0222-A106	Thick-weaved beige coated wrap at air duct	Fan Room 229F: cloth wrap on mechanical equipment, supply air duct on south wall of room. Photo 577	None Detected
820-0222-A107	Pliable grey seam seal on air handling unit-3	Fan Room 229F: seam of mechanical equipment, on north side of room. Photo 575	None Detected
820-0222-A108	White joint compound	Open Office Space Area Second Floor: Adjacent to Fan Room 227B, above suspended ceiling grid at patch in ceiling. Photo 579	1.7% Chrysotile
820-0222-A109	Unfinished gypsum wall board. Lab also reported joint compound	Open Office Space Area Second Floor: Adjacent to Fan Room 227B, above suspended ceiling grid at patch in ceiling. Photo 579	J.C. = 1.5% Chrysotile; None Detected in GWB
820-0222-A110	FT-5: 12x12-inch off-white w/ black stripes; with sticky yellow mastic; and remnant black mastic	Fan Room 227B: southeast corner of room to the right of the door. Photo 596	None Detected
820-0222-A111	Pliable white seam seal from air handling unit-6	Fan Room 227B: mechanical equipment, inside cavity at filter hatch. Photo 595	None Detected
820-0222-A112	Pliable green carpet mastic	Supplies Room 226: east side of room taken in front of copier. Photo 603	None Detected
820-0222-A113	Black dampproofing on interior face of original 1946 era concrete wall	Kitchen Area 225: above suspended ceiling grid, east side of kitchen area, on west face of poured concrete wall. Photo 604	None Detected
820-0222-A114	Pliable grey-green duct seam sealant	Waiting Area 220: above suspended ceiling on rectangular ductwork. Photo 611	None Detected
820-0222-A115	CGCT-1: 12x12-inch depressed “jigsaw” pattern concealed grid ceiling tile	Admin Director Room 216: jostled ceiling tiles previously disturbed in hall accessing area 219. Photo 625	None Detected

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
820-0222-A116	Hard black built-up roof material above suspended ceiling	Rules Attorney Room 248: above suspended ceiling north quadrant of room. Photo 627	None Detected
The testing method used (polarized light microscopy [PLM]) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation should be made by quantitative transmission electron microscopy (TEM).			

Table 1B includes samples taken in November 2017 in support of the Snowden Roof Replacement project, and the results of the laboratory analysis. Note, some of these materials may have been removed by the previous project but are included here to illustrate similar materials from the eras of construction. Asbestos field survey data sheets and laboratory reports are included in Appendix A. Refer to Appendix D for sample locations.

TABLE 1B

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
AB17-8243A	Black tar	Top of Penthouse	None Detected
AB17-8243B	Black felt	Top of Penthouse	None Detected
AB17-8243C	Black tar	Top of Penthouse	None Detected
AB17-8243D	Black felt	Top of Penthouse	None Detected
AB17-8243E	Black tar	Top of Penthouse	None Detected
AB17-8243F	Black felt	Top of Penthouse	None Detected
AB17-8243G	Black tar	Top of Penthouse	None Detected
AB17-8244A	Black tar	Inside of Penthouse	None Detected
AB17-8244B	Black felt	Inside of Penthouse	None Detected
AB17-8244C	Black tar	Inside of Penthouse	None Detected
AB17-8244D	Black felt	Inside of Penthouse	None Detected
AB17-8244E	Black tar	Inside of Penthouse	None Detected
AB17-8244F	Black felt	Inside of Penthouse	None Detected
AB17-8244G	Black tar	Inside of Penthouse	None Detected
AB17-8244H	Black felt	Inside of Penthouse	None Detected
AB17-8244I	Black tar	Inside of Penthouse	None Detected
AB17-8244J	Black felt	Inside of Penthouse	None Detected
AB17-8244K	Black tar	Inside of Penthouse	None Detected
AB17-8244L	Brown “fesco”	Inside of Penthouse	None Detected
AB17-8245	Off-white GWB	Penthouse	None Detected
AB17-8246	Off-white Duct Cloth	Penthouse	95% Chrysotile
AB17-8247A	Black tar	Mech Curb In	None Detected
AB17-8247B	Brown felt	Mech Curb In	None Detected

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
AB17-8247C	Black tar	Mech Curb In	None Detected
AB17-8248A	Silver “silverseal”	At 4B	5% Chrysotile
AB17-8248B	Black tar	At 4B	None Detected
AB17-8248C	Black felt	At 4B	None Detected
AB17-8248D	Black tar	At 4B	None Detected
AB17-8248E	Brown felt	At 4B	None Detected
AB17-8248F	Black tar	At 4B	None Detected
AB17-8248G	Brown felt	At 4B	None Detected
AB17-8248H	Black tar	At 4B	None Detected
AB17-8248I	Brown “fesco”	At 4B	None Detected
AB17-8249A	Black tar	At 4A	None Detected
AB17-8249B	Brown felt	At 4A	None Detected
AB17-8249C	Black tar	At 4A	None Detected
AB17-82450	Black mastic	Hot Stack	None Detected
AB17-82451	Black mastic	Mech Curb	8% Chrysotile
AB17-82452A	Black tar	Head Wall	None Detected
AB17-82452B	Black felt	Head Wall	None Detected
The testing method used (polarized light microscopy [PLM]) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation should be made by quantitative transmission electron microscopy (TEM).			

Table 1C includes samples taken in October 2001 on the roof of the Snowden building and the results of the laboratory analysis. Note, some of these materials may have been removed by the previous project but are included here to illustrate similar materials from the eras of construction. Asbestos field survey data sheets and laboratory reports are included in Appendix A. Refer to Appendix D for sample locations.

TABLE 1C

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
Roof 2			
AKR2-A01	Black tar on wood	Near Southeast corner of roof	None Detected
AKR2-A02	Brown “fesco;” lower board of roof material	Near Southeast corner of roof	None Detected
AKR2-A03	Top two layers of bottom 5 layers	Near Southeast corner of roof	None Detected
AKR2-A04	Bottom 3 layers of bottom 5 layers	Near Southeast corner of roof	None Detected

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
AKR2-A05	Upper board of roof material	Near Southeast corner of roof	None Detected
AKR2-A06	Bottom 2 layers of top 4 layers	Near Southeast corner of roof	None Detected
AKR2-A07	Top 2 layers of top 4 layers	Near Southeast corner of roof	None Detected
AKR2-A08	Top layer of flashing with tar	Near Southeast corner of roof	None Detected
AKR2-A09	Bottom flashing layer	Inside of Penthouse	None Detected
AKR2-A10	Black Parapet wall cap sealant	Inside of Penthouse	1.9% Chrysotile
AKR2-A11	Grey/black Parapet wall cap sealant	Inside of Penthouse	None Detected
Roof 3			
AKR3-A01	Base paper with tar	Southeast corner of roof	None Detected
AKR3-A02	Bottom “fesco” board	Southeast corner of roof	None Detected
AKR3-A03	Top “fesco” board	Southeast corner of roof	None Detected
AKR3-A04	Tar	Southeast corner of roof	None Detected
AKR3-A05	Bottom 4 layers with tar	Southeast corner of roof	None Detected
AKR3-A06	Fabric mesh	Southeast corner of roof	None Detected
AKR3-A07	Top 4 layers with tar	Southeast corner of roof	None Detected
AKR3-A08	Grey/black parapet wall sealant	West parapet wall near South end	3.3% Chrysotile
AKR3-A09	Black parapet wall cap sealant	West parapet wall near North end	3.7% Chrysotile
AKR3-A10	Flashing, top layer	West parapet wall near center	None Detected
AKR3-A11	Flashing, lower layer	West parapet wall near center	None Detected
Roof 6			
AKR6-A01	Base layer with tar	Center of roof toward West end	None Detected
AKR6-A02	“Fesco” board	Center of roof toward West end	None Detected
AKR6-A03	Bottom 2 layers of roof	Center of roof toward West end	None Detected
AKR6-A04	Top 2 layers of roof	Center of roof toward West end	None Detected
AKR6-A05	Black tar and fabric mesh	Northwest corner at joint of roof and parapet wall	4.5% Chrysotile
AKR6-A06	Black tar at seam flashing	South parapet, West of center	10% Chrysotile
AKR6-A07	Flashing	South parapet, West of center	None Detected
Roof 7			
AKR7-A01	Fiberglass board facing	Southwest quadrant of roof, South of air duct	None Detected

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
AKR7-A02	Bottom roof layers	Southwest quadrant of roof, South of air duct	None Detected
AKR7-A03	Mesh and tar	Southwest quadrant of roof, South of air duct	None Detected
AKR7-A04	Top roof layers	Southwest quadrant of roof, South of air duct	None Detected
AKR7-A05	Black sealant	Southwest corner	None Detected
AKR7-A06	Grey/black parapet wall sealant	South wall, West of center	None Detected
AKR7-A07	Black penetration sealant	Flashing on air handler	None Detected
AKR7-A08	Flashing	West wall, South of center	6.8% Chrysotile
AKR7-A09	Black parapet seam sealant	North wall, center	None Detected
Roof 8			
AKR8-A01	Base layer with tar	Northwest corner of roof	None Detected
AKR8-A02	“Fesco” board	Northwest corner of roof	None Detected
AKR8-A03	Bottom roof layers	Northwest corner of roof	None Detected
AKR8-A04	Top roof layers	Northwest corner of roof	None Detected
AKR8-A05	Grey/black sealant on parapet wall seam	North parapet wall, center	None Detected
AKR8-A06	Parapet wall flashing	North parapet wall, center	None Detected
Roof 9			
AKR9-A01	Base paper and tar	Center of roof near S end	Trace, < 1%
AKR9-A01 Reanalyzed by TEM	Base paper and tar	Center of roof near S end	2.2% Chrysotile Tar paper
AKR9-A02	Fesco	Center of roof near S end	None Detected
AKR9-A03	Bottom roof layers	Center of roof near S end	None Detected
AKR9-A04	Fabric mesh and tar	Center of roof near S end	None Detected
AKR9-A05	Top roof layers	Center of roof near S end	None Detected
AKR9-A06	Top flashing layers with mesh	S wall toward W end	6 % Chrysotile in black tar layer
AKR9-A07	Bottom flashing layers	S wall toward W end	None Detected
AKR9-A08	Black tarry sealant	E wall near N end	10 % Chrysotile
Roof 10			
AKR10-A01	Base paper and tar	Between Northeast corner and center of roof	None Detected

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
AKR10-A02	“Fesco”	Between Northeast corner and center of roof	None Detected
AKR10-A03	Bottom roof layers	Between Northeast corner and center of roof	None Detected
AKR10-A04	Fabric mesh and tar	Between Northeast corner and center of roof	None Detected
AKR10-A05	Top roof layers	Between Northeast corner and center of roof	None Detected
AKR10-A06	Black penetration sealant	Vent, Northeast of center	None Detected
AKR10-A07	Grey/black sealant	Vent in Southeast corner	7% Chrysotile
AKR10-A08	Black parapet wall cap sealant	South parapet wall, near West end	5.1% Chrysotile
AKR10-A09	Top flashing layer	North parapet wall, just West of center	None Detected
AKR10-A10	Bottom flashing layer	North parapet wall, just west of center	None Detected
AKR10-A11	Grey/black flashing sealant	AC, East bay, Southwest corner of front work area	4.5% Chrysotile
Roof 11			
AKR11-A01	Base layer and tar	West side of roof, just North of center	None Detected
AKR11-A02	“Fesco” board	West side of roof, just North of center	None Detected
AKR11-A03	Bottom layers	West side of roof, just North of center	None Detected
AKR11-A04	Top layers	West side of roof, just North of center	None Detected
AKR11-A05	Top flashing layers	West parapet wall, North of center	None Detected
AKR11-A06	Bottom flashing layers	West parapet wall, North of center	None Detected
AKR11-A07	Ridge cap sealant	West parapet wall, North of center	5.7% Chrysotile
AKR11-A08	Grey/black flashing sealant	South parapet wall, West of center	4.5% Chrysotile
AKR11-A09	Black seam sealant	Small vent, Northwest of center of roof	6.2% Chrysotile
AKR11-A10	Grey/black penetration sealant	Small vent, Northwest of center of roof	3.5% Chrysotile

SAMPLE NUMBER	*MATERIAL*	*LOCATION*	*ASBESTOS CONTENT*
The testing method used (polarized light microscopy [PLM]) is not consistently reliable in detecting asbestos in floor coverings and similar non-friable organically bound materials. Before this material can be considered or treated as non-asbestos containing, confirmation should be made by quantitative transmission electron microscopy (TEM).			

The following materials have been found to contain asbestos in this or previous surveys or were assumed to contain asbestos.

1. Remnant flooring mastics (assumed ACM).
2. Joint compound in gypsum wallboard systems on the ceilings and walls.
3. Flange gaskets on piping (assumed ACM).
4. Beige and gray sealants at joints between sections of interior air handling units (confirmed ACM).
5. Silver “asbestoseal” flex connectors at fans and air handling units (assumed ACM).
6. Hard and chalky insulation heating, domestic water, and roof drain piping, mostly at valves and fittings (previously found to be ACM).
7. Boiler gaskets (assumed ACM).
8. Remnants of asbestos-containing roofing materials, roof patching tars and sealants, and tar paper at roof deck (assumed ACM).
9. Remnants of built-up roofing (above suspended ceiling on 2nd level of west addition, confirmed ACM).
10. Remnants of asbestos-containing roofing patching tars at HVAC and plumbing vents and other roof penetrations (assumed ACM).
11. Exterior waterproofing of foundation walls (assumed ACM).
12. Interior dampproofing of concrete and CMU walls (assumed ACM).
13. Gray-Green mastic of ceiling tile “L” channel at walls (confirmed ACM).
14. Remnant Tan “puck” mastic of (assumed) removed glue-on ceiling tiles (confirmed ACM).
15. “Silverseal” roof coating (found in previous re-roof project and likely removed).

The effects of the above asbestos-containing materials on the proposed renovation are discussed below.

Floor Tiles and Floor Tile Mastics
Most of the exposed flooring was carpet over concrete but it is likely that remnant of the original ACM VAT mastics that was previously abated may be found under the carpet in areas where the original flooring was installed. The flooring is unlikely to be disturbed by this project.

Gypsum Board Joint Compound
Gypsum board joint compound in areas that had not been previously renovated such as the mechanical room, open office space on the 2nd level, 3rd floor supply room 302, and storage rooms was asbestos-containing. It is also likely that some of the original wall were covered over with new finishes. Any incidental work that might disturb the joint compound in these areas of the building is required to be done by trained asbestos workers.

Flange Gaskets and Valve Packing
Due to their age, gaskets and valve packing on mechanical equipment throughout the buildings, but mostly in mechanical and fan rooms, are assumed to be asbestos-containing. These

materials are difficult to sample without disassembly of equipment and consequently limited sampling was performed. These materials were in good condition but may become friable during removal for replacement. The gaskets and packings will be partially removed by this project.

Duct Sealants
Beige and gray sealants at joints of AHU-1 and AHU-2 was found to contain asbestos. Duct sealants in other areas of the building were none detected for asbestos. The sealant was in good condition and was not friable and will be partially removed by this project.

Vibration Isolation/ Flexible Duct Connector Cloth
Flexible duct connector cloth in ducts near fan units was previously identified and determined to contained asbestos, but they were apparently removed. The flexible duct connector cloth in mechanical room 307 appeared to be black vinyl material that was in good condition and was not friable and will be partially removed by this project.

Pipe Insulation
It was reported that abatement of insulation on piping occurred throughout the 1946, 1950, 1956, and 1967 portions of the building in 1998. Some remnant pipe insulation was noted and sampled, and it did not contain insulation. The original boiler room under the 1946 portion was abandoned in place and the piping was capped off at the first floor level. Due to the age of construction, some concealed asbestos-containing insulation on piping may be uncovered during the HVAC upgrades project. If any concealed piping is found to have hard and chalky or other insulation suspected of containing asbestos, those materials shall be sampled prior to disturbance.

Pipe Fitting Insulation
It was reported that abatement of pipe fitting insulation (“hard fittings”) occurred in 1998 but some is likely concealed above the ceilings, plumbing chases, and in mechanical spaces. Several “hard fittings” were noted above the 3rd floor restrooms, and it is likely that they will also be found in other areas. The insulation is generally in good condition but is considered.

Boiler Gaskets and Sealants
The original boiler was reported to have been abandoned in place in the basement boiler room below the 1946 portion of the building. Due to their age, gaskets, and sealants on the original boiler the boilers in Mechanical Room 307 are assumed to be asbestos-containing. These materials are difficult to sample without disassembly of equipment and consequently limited sampling was performed. These materials were in good condition but may become friable during removal for replacement. The gaskets and sealants are unlikely to be disturbed in the original boiler but will be partially removed in Mechanical Room 307 by this project.

Roofing
Roofing over the 1976 and the west portion that was reroofed in 2018 is a rubberized EPDM type roof which does not contain asbestos. The roofing over the 3rd level (1967) is of an unknown date, but is also a single ply membrane. Residual asbestos-containing roofing materials, roof patching tars and sealants, and tar paper original roof is assumed to still exist beneath the newer roof on the roof deck and on flashing and other equipment penetrating the roof deck. The roofing materials will be partially removed by this project.

Roofing Material

Residual asbestos–containing built-up roofing debris was confirmed above the stair/corridor 206 and it may be present above the ceiling in other areas. The materials is not friable. Some of the suspended ceilings will be partially removed by this project.

Exterior Foundation Wall Damp-proofing Sealant
The foundation water-proofing is assumed to contain asbestos. The sealants are assumed to be not friable and in good condition. The tarry sealants are unlikely to be disturbed by this project.

Wall Damp-proofing Sealant
A black damp-proofing sealant was identified on the original 1946 concrete walls that was non-detected for asbestos but not all walls or eras were sampled. The sealant was not friable and was in good condition. The tarry sealants may be disturbed for new penetrations during this project.

Grid Mastics, “Puck” Mastic
A remnant of the grid mastic for the ceiling “L” channel was found along the west wall in Mechanical Room 307 and remnants of a “puck” mastic was also found above the 2nd floor ceiling between the 1967 and 1956 construction. Both were confirmed to contained asbestos. The Mastics were in good condition and were not friable and will be partially removed by this project.

2. Asbestos in Dusts

The settled and concealed dusts were examined by an EPA Certified Building Inspector but no samples for asbestos in dusts were authorized for this project. Based on their visual inspection and experience from similar buildings, the inspector determined that the typical settled and concealed dusts are not “asbestos debris” from an asbestos-containing building material (ACBM). Based on similar sampling from similar buildings, the inspector also determined that the dusts are unlikely to contain more than one percent (1%) asbestos by weight, and therefore are not an asbestos-containing material (ACM).

3. Lead-Containing Materials

Lead-Testing
EHS-Alaska tested paint and other materials throughout the affected areas of the building using a Heuresis XRF lead paint analyzer. Lead in paints tested varied from a trace amount to 2.7 mg/cm^2. Lead in other materials tested varied from a trace amount to 0.4 mg/cm^2. Refer to the Lead Analyzer Test Results Table in Appendix C that identifies the surfaces tested, and the results. The Lead Test Locations are shown in the Drawings in Appendix D.

Paints
There were varying lead contents found in the paints, based on what surfaces they are on, with most surfaces containing little lead (but are still classified as lead-containing materials by OSHA). The highest levels of lead were found on structural members and miscellaneous steel, with lower levels on walls and other painted surfaces, and lowest levels on pre-finished materials.

Lead based paints (paint containing more than 1.0 mg/cm^2 of lead) were identified in the project on steel components such as structural steel beams and flashing. It is anticipated that other

components which are hidden, concealed, or otherwise not tested may be painted with lead-based paint. Lead was detected at very low levels in most of the painted wall and ceiling surfaces. XRF testing is not able to “prove” that “no” lead exists in the paint. Low levels of lead found by XRF testing does not mean that the paints are free of lead, the paints may contain lead. At least an initial exposure determination of potential worker exposures for all disturbance of lead-containing materials is required unless laboratory analysis shows that there is zero detectable lead in the materials being disturbed (which requires special analysis). However, these paints may not present a hazard to occupants or workers performing renovation or demolition if lead-safe work practices are followed.

Ceramic Wall Tile and Glazing
Only low concentrations of lead were found in the glazing of ceramic wall and floor tiles, as well as glazing of ceramic plumbing fixtures. The concentrations of lead in ceramic glazing compounds should not be compared to lead-based paint criteria, as the glazing is inherently less likely to cause lead to be present in dusts or on surfaces, where it can be ingested. Lead in ceramic tile glazing may not pose a hazard to occupants, or workers performing renovation or demolition if lead-safe work practices are followed. All ceramic tiles and fixtures in the facility should be assumed to contain lead.

Plastic Components
Only low concentrations of lead were found in plastic components, such as plastic window frames, and “Formica” plastic laminate panels. The concentrations of lead in plastic compounds should not be compared to lead-based paint criteria. Lead in plastic compounds may have surface deterioration and if not cleaned regularly, lead may be present in dusts or on surfaces, where it can be ingested. Lead in plastic compounds may not pose a hazard to occupants, or workers performing renovation or demolition if good work practices are followed.

Metallic Lead in Batteries, Pipe Solder and Flashing
Metallic lead items identified in the building included lead soldering at the sheet metal roof flashings, lead solder at copper piping, and poured lead sealants at bell and spigot joints of waste and vent piping and lead acid batteries in emergency lights and other battery backup equipment. If removed during renovation or demolition they should be recycled or disposed of as hazardous waste.

Settled and Concealed Dust
Lead dust wipes were collected throughout the facility in areas of heavy dust. Lead content varied from <93 µg/ft^2 to 49,000 µg/ft^2. The high levels found are not typical for dusts in areas that are not routinely cleaned in most buildings of this age and may present a hazard to workers if proper work practices and engineering controls are not used.

Lead Dusts

Portions of the dusts in the building were sampled for lead content. The following Table 3A lists the lead dust samples taken in March 2022, and the results of the laboratory analysis. Lead Dust field survey data sheets and laboratory reports are included as Appendix B. Refer to Appendix D for sample locations.

TABLE 3A

SAMPLE NUMBER	*DESCRIPTION*	*LOCATION*	*RESULTS LEAD/SF µg/ft²*
820-0322-LD01	10cm x 10cm horizontal wipe on metal, area = 0.1076ft²	Third Floor Mechanical Room 307: top of air handling unit-1. Photo 645 date:02/18	230 µg/ft²
820-0322-LD02	10cm x 10cm horizontal wipe on cloth, area = 0.1076ft²	Third Floor Mechanical Room 307: top of wrapped duct suppling mechanical equipment. Photo 644 date:02/18	1,000 µg/ft²
820-0322-LD03	10cm x 10cm horizontal wipe on metal, area = 0.1076ft²	Third Floor Supplies Room 302: top of light fixture above suspended ceiling. Photo 06 date:03/01	280 µg/ft²
820-0322-LD04	10cm x 10cm horizontal wipe on metal, area = 0.1076ft²	Second Floor Conference Room 213: top of rectangular duct above ceiling. Photo 14 date:03/01	230 µg/ft²
820-0322-LD05	10cm x 10cm horizontal wipe on metal, area = 0.1076ft²	Second Floor Women's Restroom 210: top of light fixture above suspended ceiling. Photo 23 date:03/01	790 µg/ft²
820-0322-LD06	10cm x 10cm horizontal wipe on metal, area = 0.1076ft²	Second Floor Fan Room 227B: on top of air handling unit-6. Photo 29 date:03/01	<93 µg/ft²
820-0322-LD07	10cm x 10cm horizontal wipe on metal, area = 0.1076ft²	First Floor IT/Storage Room 147: on top of rectangular duct above suspended ceiling. Photo 35 date:03/01	790 µg/ft²
820-0322-LD08	5.715cm x 20.32cm horizontal wipe on metal, area = 0.125ft²	First Floor Storage Room 148: on red iron beam above suspended ceiling. Photo 45 date:03/01	49,000 µg/ft²
820-0322-LD09	10cm x 10cm horizontal wipe on metal, area = 0.1076ft²	First Floor Vestibule Area 129: top of rectangular duct above suspended ceiling. Photo 64 date:03/01	880 µg/ft²

4. PCB-Containing Materials

Light Ballasts

Older fluorescent lights typically have PCB-containing ballasts. PCB-containing ballasts in fluorescent lights were banned in 1978, but manufacturers were allowed to use up existing stocks, and lights may have been reused from other facilities. The survey included examination of what were considered to be representative light fixtures, but not all fixtures were able to be accessed. All lights shall be inspected during removal or relocation. Unless ballasts were marked "No PCBs," they must be assumed to contain PCBs and must be disposed of as a hazardous waste when removed for disposal. Only fluorescent light fixtures marked "No PCBs"

were found in the building. The fluorescent light fixtures are unlikely to be disturbed by this project.

Older HID lights may have PCB-containing ballasts. Due to height restrictions and sealed ballast enclosures, the HID fixtures were not able to be accessed. All HID lights shall be inspected during removal or relocation. If ballasts are not marked “No PCBs,” we suggest contacting the manufacturer of the lights to determine if the ballasts contain PCB’s or assume that they contain PCB’s and be disposed of as a hazardous waste. The HID light fixtures are unlikely to be disturbed by this project.

Bulk Products
Some older paints, sealants and other building materials may contain measurable amounts of PCB’s. PCB use in paints and sealants was supposed to have been discontinued in 1979. The EPA does not require the sampling of bulk products, and no sampling of “Bulk Products” were authorized for this project.

5. Mercury-Containing Materials

Fluorescent Lamps
Fluorescent lamps use mercury to excite the phosphor crystals that coat the inside of the lamp. These lamps contain from 15 to 48 milligrams of mercury depending on their age and manufacturer. The Fluorescent light fixtures are unlikely to be disturbed by this project.

Thermostats
Older thermostats or other electrical switches that may contain mercury were noted in the building.

High Intensity Discharge Lamps
High Intensity Discharge (HID) lamps use mercury and sodium vapors in the lamp, and also typically have lead-containing solders at the bases. These lamps contain varying amounts of mercury depending on their age and manufacturer. The HID light fixtures are unlikely to be disturbed by this project.

All mercury-containing items being removed by this project are required to be disposed of as hazardous waste or recycled.

6. Other Hazardous Materials

Soil Contamination
The scope of work for EHS-Alaska, Inc. did not include investigation of soils for petroleum or other contaminations.

Heat Transfer Fluids
The existing heating is assumed to contain heat transfer fluids, including glycol or other boiler treatment chemicals. Any heat transfer fluids removed from the heating system shall be recovered and properly disposed of or recycled.

E. REGULATORY CONSTRAINTS

1. Asbestos-Containing Materials

The Federal Occupational Safety and Health Administrative (29 CFR 1926.1101) and the State of Alaska Department of Labor (8 AAC 61) have promulgated regulations requiring testing for airborne asbestos fibers; setting allowable exposure limits for workers potentially exposed to airborne asbestos fibers; establishing contamination controls, work practices, and medical surveillance; and setting worker certification and protection requirements. These regulations apply to all workplace activities involving asbestos-containing materials.

The EPA regulations, issued as Title 40 of the Code of Federal Regulations, Part 61 (40 CFR 61), Subpart M under the National Emission Standards for Hazardous Air Pollutants (NESHAP), established procedures for handling ACM during asbestos removal and waste disposal.

The EPA regulations require an owner (or the owner's contractor) to notify the EPA of asbestos removal operations and to establish responsibility for the removal, transportation, and disposal of asbestos-containing materials.

The disposal of asbestos waste is regulated by the EPA, the Alaska Department of Environmental Conservation, and the disposal site operator. Wastes being transported to the disposal site must be sealed in leak tight containers prior to disposal and must be accompanied by disposal permits and waste manifests.

2. Dusts with Asbestos

Settled and concealed dusts above ceilings, and at other areas that are not routinely cleaned (such as inside ducts and at roofs, etc.) are assumed to have measurable concentrations of asbestos. Based on sampling of similar settled and concealed dusts at similar buildings, those dusts are assumed to contain less than 1 percent asbestos. Normal settled and concealed dusts are distinct and treated differently from debris resulting from damaged asbestos-containing materials.

Background levels of asbestos in dusts for a particular location will depend on many factors, including whether or not asbestos occurs naturally in soils in the area.

Likely sources of asbestos in dusts include natural occurrences of asbestos

The types of asbestos found in settled and concealed dusts often contain actinolite, anthophyllite and tremolite forms of asbestos which are not commonly found in bulk samples taken of materials from buildings. Those forms of asbestos may come from natural occurrences of asbestos in an outside source, such as rock or ore deposits, which appear to be common in the Anchorage area.

Because the type of disturbance, concentration of asbestos in the dusts, cohesiveness of the dusts and room sizes will change, the airborne asbestos levels expected during the project will depend on the contractor’s means and methods of conducting the work. The mere presence of asbestos in the dusts does not necessarily imply that a “hazard” exists which would require the use of specially trained workers to “abate” the “hazard.” All dusts will likely be required to be removed from the areas where asbestos-containing materials are being removed (abatement areas) in order to achieve clearances. The dusts in the other areas are to be controlled so as to limit worker exposures and prevent contamination of occupied areas of the building.

There is no established correlation between settled or adhered dusts with measurable concentrations of asbestos and airborne concentrations. The definition in the OSHA regulations

of asbestos-containing materials as those materials that contain 1 percent or more asbestos by weight, apply to cohesive materials and not to dusts. The OSHA regulations are essentially "performance based," if workers are exposed above the permissible exposure limits, then all of the requirements in the regulations become effective.

3. Lead-Containing Materials

The EPA Standard 40 CFR 745, Lead-Based Paint Poisoning Prevention in Certain Residential Structures, defines lead–based paint hazards and regulates lead based paint activities in target housing and child-occupied facilities. The requirements of this regulation include training certification, pre-work notifications, work practice standards and record keeping. Areas in facilities built before 1978 that are typically classified as child occupied facilities may include but are not limited to: residential homes, day care facilities, preschools, kindergarten classrooms, restrooms, multipurpose rooms, cafeterias, gyms, libraries, and other areas routinely used by children under 6 years of age. New training requirements for Firms (Contractors) and Renovators (Workers) became effective on April 22, 2010. The building is not classified as a child occupied facility therefore the requirements of 40 CFR 745 do not apply.

The requirements apply to renovation, repair or painting activities that are NOT classified as "minor repair and maintenance activities" (as defined by the regulations), which take place in the *"child occupied"* portions of facilities. It is anticipated that only small amounts of lead based paint (if present) will be required to be disturbed for this renovation work, and the work would be classified as minor repair and maintenance activities, therefore most requirements of 40 CFR 745 do not apply.

Federal OSHA (29 CFR 1926.62) and the State of Alaska (8 AAC Chapter 61) have promulgated regulations that apply to all construction work where employees may be exposed to lead. The disturbance of any surfaces painted with lead-containing paint requires lead-trained personnel, personnel protective procedures, and air monitoring until exposure levels can be determined. If initial monitoring verifies that the work practices being used are not exposing workers, monitoring and protection procedures may be relaxed. Experience has shown that some paints in most buildings will contain low concentrations of lead and disturbance of those paints are still regulated under the OSHA lead standard, 29 CFR 1926.62. Low levels of lead found by XRF testing does not mean that the paints are free of lead, the paints may contain lead, and OSHA regulations apply during any disturbance of measurable amounts of lead present in paints.

Because the type of disturbance, quantity of lead dusts, cohesiveness of the dusts and room sizes will change, the airborne lead levels expected during the project will depend on the contractor's means and methods of conducting the work. The mere presence of lead in the dusts does not necessarily imply that a "hazard" exists which would require the use of specially trained workers to "abate" the "hazard." As a comparison, "clearance" lead dust concentrations established at the conclusion of a "lead abatement project" in child occupied facilities, are required to be <10.0 µg/ft^2 for floors, <100.0 µg/ft^2 for windowsills, and <400.0 µg/ft^2 for window troughs.

The dust sampled in the building contained from <93 µg/ft^2 to 49,000.0 µg/ft^2, however, none of the samples were taken at the floors, windowsills, or window troughs, but were taken in areas that were typically inaccessible, and are unlikely to be disturbed during normal occupancy. The highest concentration found was in the first floor storage room 148, on top of the structural steel beam that had heavy loadings of dust, presumably from past days when there were printing

presses operating. Clearance sampling meeting the requirements of 40 CFR 745 will be required if the work goes beyond the minimum amounts of disturbance of lead-based paints established by those regulations. No portions of Snowden Administrative Building would be classified as a “Child Occupied Facility.”

There is no established correlation between settled or adhered lead dust concentrations and airborne concentrations. The OSHA regulations are essentially “performance based,” if workers are exposed above the permissible exposure limits, then all of the requirements in the regulations become effective.

The EPA requires that actual construction or demolition debris that contains lead or lead-containing paint or other heavy metals be tested using the TCLP test to determine if the waste must be treated as hazardous waste. All federal, state, and local standards regulating lead and lead-containing wastes are required to be followed during the renovation or demolition of portions of this building. Lead-acid batteries and other batteries are classified by the EPA as Universal Wastes. The EPA encourages that all Universal Wastes be recycled in accordance with 40 CFR 273, or in the case of lead-acid batteries, in accordance with 40 CFR 266, subpart G.

If the TCLP tests done on the waste stream(s) that are produced by the contractor are found to be classified as hazardous wastes, then those waste stream(s) will have to be packaged for shipping and disposal in accordance with hazardous waste and transportation regulations. Because there are no hazardous waste landfills in Alaska, this report assumes that any hazardous waste disposal would take place in Seattle or elsewhere in the Pacific Northwest.

4. PCB-Containing Materials

The EPA has promulgated regulations (40 CFR Part 761) that cover the proper handling and disposal of PCB-containing materials. If any PCB-containing equipment is discovered and if they will be removed, those materials are required to be disposed of at fully permitted hazardous waste facilities. The EPA regulates liquid PCBs differently from non-liquid materials. Workers who remove or handle PCB-containing or PCB-contaminated materials or who transport or dispose of PCB wastes must be trained and certified in hazardous waste operations and emergency response (HAZWOPER) as required by 29 CFR 1910.120 and the State of Alaska Department of Labor (8 AAC 61). The Department of Transportation under 49 CFR Parts 100-199 regulates the marking, packaging, handling and transportation of hazardous materials. All federal, state, and local standards regulating PCBs and PCB waste must be followed during this project.

5. Mercury-Containing Materials

Thermostats and mercury-containing lamps are classified by the EPA as Universal Wastes. The EPA encourages that all Universal Wastes be recycled in accordance with 40 CFR 273. Mercury and mercury-containing products are considered hazardous waste if TCLP testing of the waste for mercury confirms the mercury content to be greater than the EPA criteria of 0.2 mg/l.

6. Other Hazardous Materials

Chemical Hazards
The EPA has promulgated regulations (40 CFR Parts 260 to 299 amongst others) that cover the proper handling and disposal of waste chemicals, including listed wastes, which are ignitable, corrosive, reactive, toxic, or an acute hazardous waste or wastes that exhibit the characteristics of toxicity. All construction workers who are required to remove or handle chemical hazards or to transport or dispose of chemical wastes shall be trained and certified as required by the U.S. Department of Labor (29 CFR 1910.120) and the State of Alaska Department of Labor (8 AAC 61). Transportation of chemical hazards are regulated by Department of Transportation regulations under 49 CFR Parts 171 to 178 amongst others.

Waste heat transfer fluids (such as used heating/cooling system glycol or other circulating heating/cooling fluids) are a potentially hazardous waste and are required to be TCLP tested prior to disposal to determine if the fluids are classified as hazardous or non-hazardous waste per the EPA's RCRA regulations governing hazardous wastes. According to a study performed by the University of Northern Iowa, standard TCLP analysis using ICP SW 6010 testing procedures commonly report levels of Arsenic and Selenium over regulatory thresholds due to interferences in the matrix. That report concluded that additional analysis should be performed to refute the presence of Arsenic or Selenium over the regulatory levels by either mass spectrometry using method SW 6020, or by graphite furnace using method SW 7060. Some heat transfer fluids may also contain potentially hazardous additives that modify the properties of the fluids for use in a particular system. It is recommended that the contractor consult with the persons responsible for maintaining the system to determine if any additives that may be potentially hazardous were used in the system to further determine disposal requirements.

F. RECOMMENDATIONS

1. Asbestos-Containing Materials

The asbestos-containing materials identified in the building are typically in intact condition and are classified as both friable and non-friable ACM. All asbestos-containing materials that will be disturbed by the planned renovation work are required to be removed by trained asbestos workers. If any asbestos-containing materials are found that will be disturbed by the planned renovations, they are required to be removed by trained asbestos workers. Refer to Section 02 82 33 Removal and Disposal of Asbestos Containing Materials.

2. Dusts with Asbestos

Dusts with measurable concentrations of asbestos are assumed to be present, but are not classified as asbestos-containing materials, or as debris from asbestos-containing materials. Workers disturbing dusts are required to have hazard communication training in accordance with OSHA regulations but are not required to receive 40 hours of training, which is required for asbestos workers. The contractor will need to choose means and methods to control worker exposures to airborne contaminants. At least an initial exposure assessment or data from previous air monitoring is needed to show that worker exposures are maintained below the OSHA permissible exposure limits (PELs). Refer to Section 01 35 45 Airborne Contaminant Control.

3. Lead-Containing Materials

Federal OSHA (29 CFR 1926.62) and the State of Alaska (8 AAC Chapter 61) have promulgated regulations that apply to all construction work where employees may be exposed to lead, including disturbance of paints with low concentrations of lead.

Worker exposure to lead may be able to be controlled below the OSHA permissible exposure limit if proper engineering controls and procedures are used during renovation. Lead is a potentially hazardous waste, and the EPA requires that all wastes that contains lead be tested to determine if they must be treated as hazardous waste. A TCLP test of the waste stream(s) produced by the Contractor's means and methods are required to be performed to determine if those wastes will be classified as hazardous or non-hazardous. Refer to Section 01 35 45 Airborne Contaminant Control and Section 02 83 33 Removal and Disposal of Materials Containing Lead.

4. PCB-Containing Materials

If any PCB-containing ballasts are discovered, and they are removed or replaced, they will need to be removed, handled, packaged, and disposed of in accordance with all regulations. Refer to Section 02 84 18 Removal and Disposal of Chemical Hazards.

5. Mercury-Containing Materials

If any mercury-containing materials are removed or replaced, they will need to be removed, handled, packaged and disposed of in accordance with all regulations. If mercury-containing lamps and thermostats are handled and disposed of in accordance with the Universal Waste Regulations, no TCLP test is required. If the Contractor chooses to perform a TCLP test of fluorescent lamps, the test shall be conducted in accordance with the requirements of ANSI/NEMA Standard Procedure for Fluorescent Lamp Sample Preparation and Toxicity Characteristic Leaching Procedure, C78.LL 1256-2003 or latest version. Refer to Section 02 84 18 Removal and Disposal of Chemical Hazards.

6. Other Hazardous Materials

Heat transfer fluids will need to be removed, handled, packaged and disposed of in accordance with all regulations. If any heat transfer fluids are removed or replaced, they will need to be removed, handled, packaged and disposed of in accordance with all regulations. Refer to Section 02 84 18 Removal and Disposal of Chemical Hazards.

G. LIMITATIONS

The conclusions and recommendations contained in this report are based upon professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted environmental consulting and engineering standards and practices and are subject to the following inherent limitations:

1. Accuracy of Information

The laboratory reports utilized in this assessment were provided by the accredited laboratories cited in this report. Although the conclusions, opinions, and recommendations are based in part, on such information, our services did not include the verification of accuracy or authenticity of such reports. Should such information provided be found to be inaccurate or unreliable,

EHS-Alaska, Inc. reserves the right to amend or revise its conclusions, opinions, and/or recommendations.

2. Site Conditions

This limited survey did not include investigation of the entire site and may not be valid outside the survey area. The intent of this survey was to identify common hazardous materials that may be disturbed during routine maintenance or renovations. This survey is not intended to be utilized as the sole design document for abatement. This survey was conducted while the site was occupied. All inspections were performed with furniture, equipment and/or stored items in place. The scope of work for this survey did not include identification of all potentially hazardous materials that may be present at this site and was limited to the scope of work agreed upon with our client. Although a concerted effort was made to identify those common hazardous materials likely to be affected by this project, some hazardous materials may have been hidden by furniture, equipment or stored items and may not have been identified. The survey investigated representative materials and items, such as lights and mechanical components. Variations may occur between materials and items that appear to be the same but are actually of different construction or materials. Other asbestos-containing or potentially hazardous materials may be present in the facilities that were concealed by structural members, walls, ceilings, or floor coverings, or in materials where testing was not conducted.

3. Changing Regulatory Constraints

The regulations concerning hazardous materials are constantly changing, including the interpretations of the regulations by the local and national regulating agencies. Should the regulations or their interpretation be changed from our current understanding, EHS-Alaska, Inc. reserves the right to amend or revise its conclusions, opinions, and/or recommendations.

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APPENDIX A

Asbestos Bulk Sample
Field Survey Data Sheets
and
Laboratory Reports

Field Data Sheets and Laboratory Reports

Refer to Summarized Results in this Report

Reports are Available for Review
Or Electronically Through the ACS Offices,

APPENDIX B

Dust Sampling for Lead
And Laboratory Reports

EHS ALASKA INCORPORATED

EHS-LDlaska, Inc.
11901 Business Blvd., Suite 208, Eagle River, AK 99577
(907) 694-1383 • (907) 694-1382 fax
e-mail • ehsak@ehs-LDlaska.com

PROJECT NO:	PROJECT NAME:	FACILITY:	COLLECTION DATE:
7903-01	Alaska Court System (ACS) Snowden Building HVAC	Snowden Building at 820 W 4th Avenue in Anchorage, Alaska	02/18/22 03/01/22

CHAIN OF CUSTODY RECORD

ANALYSIS REQUESTED:
- ☐ PLM BULK
- ☐ PLM DUST
- ☐ TEM BULK
- ☒ LEAD DUST
- ☐ LEAD TCLP
- ☐ LEAD PPM
- ☐ TEM MICROVAC DUST (ASTM 5756)

TYPE:	TURNAROUND:	DISPOSAL:	QUANTITY
☐ ASBESTOS ☒ LEAD	3 DAYS	NORMAL	11

COLLECTED BY (signature)

John Lamont
PRINTED NAME

T-30203-41066 / 20220011
CERT# / AHERA#

FedEx
SHIPPING METHOD

FedEx: 7761 9053 1810
COURIER (signature)
03/04/2022 1030 am
DATE/TIME

IATL
SELECTED LABORATORY

SAMPLES ACCEPTED BY

RECEIVED
DATE/TIME
03/9/22

ANALYST'S SIGNATURE

DATE MAR 7 2022

IATL - By 03/9/22

SPECIAL INSTRUCTIONS / COMMENTS:

LAB: RETURN A SIGNED COPY OF THIS FORM WITH THE FINAL REPORT TO EHS-LDLASKA, INC.

See sample location drawing for more detailed explanation of exact locations.

Ghost Wipe Lot 02C1 092519 Expires 0323

FIELD SURVEY DATA

EHS SAMPLE NO. / LAB ID NO	SAMPLE DESCRIPTION; (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS FOR EHS-LDLASKA USE ONLY
820-0322-LD01 7379733	10cm x 10cm horizontal wipe on metal, area = 0.1076ft²	Third Floor Mechanical Room 307: top of air handling unit-1. Photo 645 date:02/18	230 µg/ft²
820-0322-LD02 7379734	10cm x 10cm horizontal wipe on cloth, area = 0.1076ft²	Third Floor Mechanical Room 307: top of wrapped duct suppling mechanical equipment. Photo 644 date:02/18	1,000 µg/ft²
820-0322-LD03 7379735	10cm x 10cm horizontal wipe on metal, area = 0.1076ft²	Third Floor Supplies Room 302: top of light fixture above suspended ceiling. Photo 06 date:03/01	280 µg/ft²
820-0322-LD04 7379736	10cm x 10cm horizontal wipe on metal, area = 0.1076ft²	Second Floor Conference Room 213: top of rectangular duct above ceiling. Photo 14 date:03/01	230 µg/ft²
820-0322-LD05 7379737	10cm x 10cm horizontal wipe on metal, area = 0.1076ft²	Second Floor Women's Restroom 210: top of light fixture above suspended ceiling. Photo 23 date:03/01	790 µg/ft²
820-0322-LD06 7379738	10cm x 10cm horizontal wipe on metal, area = 0.1076ft²	Second Floor Fan Room 227B: on top of air handling unit-6. Photo 29 date:03/01	<93 µg/ft²
820-0322-LD07 7379739	10cm x 10cm horizontal wipe on metal, area = 0.1076ft²	First Floor IT/Storage Room 147: on top of rectangular duct above suspended ceiling. Photo 35 date:03/01	790 µg/ft²
820-0322-LD08 7379740	5.715cm x 20.32cm horizontal wipe on metal, area = 0.125ft²	First Floor Storage Room 148: on red iron beam above suspended ceiling. Photo 45 date:03/01	49,000 µg/ft²

EHS ALASKA INCORPORATED

EHS-LDlaska, Inc.
11901 Business Blvd., Suite 208, Eagle River, AK 99577
(907) 694-1383 • (907) 694-1382 fax
e-mail • ehsak@ehs-LDlaska.com

PROJECT NO:	PROJECT NAME:	FACILITY:	COLLECTION DATE:
7903-01	Alaska Court System (ACS) Snowden Building HVAC	Snowden Building at 820 W 4th Avenue in Anchorage, Alaska	02/18/22 03/01/22

FIELD SURVEY DATA

EHS SAMPLE NO. LAB ID NO	SAMPLE DESCRIPTION, (COLOR, MATERIAL TYPE, LAYERS, FRIABILITY)	LOCATION/COMMENTS (INCLUDING PHOTO/XREF)	RESULTS FOR EHS-LDLASKA USE ONLY
820-0322-LD09 7379741	10cm x 10cm horizontal wipe on metal, area = 0.1076ft²	First Floor Vestibule Area 129: top of rectangular duct above suspended ceiling. Photo 64 date:03/01	880 µg/ft²
820-0322-FB01 7379742	Field Blank	Wiped on hands	<10 µg/ft²
820-0322-FB02 7379743	Field Blank	Wiped on hands	<10 µg/ft²
END	**END**	**END**	

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Client: EHS511

Report Date: 3/9/2022
Report No.: 655063 - Lead Wipe
Project: Alaska Court System (ACS) Snowden Bldg HVAC
Project No.: 7903-01

LEAD WIPE SAMPLE ANALYSIS SUMMARY

Lab No.: 7379733 **Client No.:** 820-0322-LD01	**Location:** 3rd Fl Mechanical Rm 307, Top Of Air Handling Unit-1	**Area:** 0.11 ft² **Result:** 230 µg/ft²
Lab No.: 7379734 **Client No.:** 820-0322-LD02	**Location:** 3rd Fl Mechanical Rm 307, Top Of Wrapped Duct Suppling Mechanical Equipment	**Area:** 0.11 ft² **Result:** 1000 µg/ft²
Lab No.: 7379735 **Client No.:** 820-0322-LD03	**Location:** 3rd Fl Supplies Rm 302, Top Of Light Fixture Above Suspended Ceiling	**Area:** 0.11 ft² **Result:** 280 µg/ft²
Lab No.: 7379736 **Client No.:** 820-0322-LD04	**Location:** 2nd Fl Conference Rm 213, Top Of Rectangular Duct Above Ceiling	**Area:** 0.11 ft² **Result:** 230 µg/ft²
Lab No.: 7379737 **Client No.:** 820-0322-LD05	**Location:** 2nd Flr Women's Restroom 210, Top Of Light Fixture Above Suspended Ceiling	**Area:** 0.11 ft² **Result:** 790 µg/ft²
Lab No.: 7379738 **Client No.:** 820-0322-LD06	**Location:** 2nd Fl Fan Rm 227B, On Top Of Air Handling Unit-6	**Area:** 0.11 ft² **Result:** <93 µg/ft²
Lab No.: 7379739 **Client No.:** 820-0322-LD07	**Location:** 1st Fl IT/Storage Rm 147, On Top Of Rectangular Duct Above Suspended Ceiling	**Area:** 0.11 ft² **Result:** 790 µg/ft²
Lab No.: 7379740 **Client No.:** 820-0322-LD08	**Location:** 1st Fl Storage Rm 148, On Red Iron Beam Above Suspended Ceiling	**Area:** 0.13 ft² **Result:** 49000 µg/ft²
Lab No.: 7379741 **Client No.:** 820-0322-LD09	**Location:** 1st Fl Vestibule Area 129, On Top Of Rectangular Duct Above Suspended Ceiling	**Area:** 0.11 ft² **Result:** 880 µg/ft²
Lab No.: 7379742 **Client No.:** 820-0322-LD10	**Location:** Field Blank	**Area:** Blank **Result:** <10 µg

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

Date Received: 3/7/2022
Date Analyzed: 03/09/2022
Signature: Chad Shaffer
Analyst: Chad Shaffer

Approved By: Frank E. Ehrenfeld, III
Laboratory Director

iATL INTERNATIONAL
ASBESTOS TESTING LABORATORIES

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CERTIFICATE OF ANALYSIS

Client: EHS Alaska Incorporated
11901 Business Blvd., Ste 208
Eagle River AK 99577

Client: EHS511

Report Date: 3/9/2022
Report No.: 655063 - Lead Wipe
Project: Alaska Court System (ACS) Snowden Bldg HVAC
Project No.: 7903-01

LEAD WIPE SAMPLE ANALYSIS SUMMARY

Lab No.: 7379743 **Location:** Field Blank **Area:** Blank
Client No.: 820-0322-LD11 **Result:** <10 µg

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

Date Received: 3/7/2022
Date Analyzed: 03/09/2022
Signature: Chad Shaffer
Analyst: Chad Shaffer

Approved By: Frank Ehrenfeld
Frank E. Ehrenfeld, III
Laboratory Director

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CERTIFICATE OF ANALYSIS

Client:	EHS Alaska Incorporated	Report Date:	3/9/2022
	11901 Business Blvd., Ste 208	Report No.:	655063 - Lead Wipe
	Eagle River AK 99577	Project:	Alaska Court System (ACS) Snowden Bldg HVAC
		Project No.:	7903-01
Client:	EHS511		

Appendix to Analytical Report:

Customer Contact: Cali Swatlowski
Method: AAS - SW 846: 3050B: 7000B

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: Dust Wipes
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 AAS: SW 846: 3050B: 7000B, 2010

Certification:
- NATIONAL LEAD LABORATORY ACCREDITATION PROGRAM (NLLAP)
- AIHA-LAP, LLC No. 100188
- NYSDOH-ELAP No. 11021

Threshold Limits
-USEPA Dust Level Hazard Standards 3/08/2021
-Floor: 10 micrograms/ft^2
-Window Sills: 100micrograms/ft^2
-Window Well/Trough: 400micrograms/ft^2

This report meets the standards set forth in the EPA's National Lead Laboratory Accreditation Program (NLLAP) through the Laboratory Quality System Requirements (LQSR) Revision 3.0 November 5, 2007. All Environmental Lead Proficiency Analytical Testing (ELPAT) is through the AIHA-PAT established program.

9000 Commerce Parkway Suite B
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Telephone: 856-231-9449
Email: customerservice@iatl.com

CERTIFICATE OF ANALYSIS

Client:	EHS Alaska Incorporated	Report Date:	3/9/2022
	11901 Business Blvd., Ste 208	Report No.:	655063 - Lead Wipe
	Eagle River AK 99577	Project:	Alaska Court System (ACS) Snowden Bldg HVAC
		Project No.:	7903-01
Client:	EHS511		

Regulatory limit varies by surface location (EPA/HUD guidelines). Unless otherwise stated, results assume one square foot sampled.

Method requires submittal of blanks.

Sample results are not corrected for contamination by field or analytical blanks.

All results are based on the samples as received at the lab. iATL assumes that appropriate sampling methods have been used and that the data upon which these results are based have been accurately supplied by the client.

Method Detection Limit (MDL) per EPA Method 40CFR Part 136 Appendix B. Reporting Limit (RL) based upon Lowest Standard Determined (LSD) in accordance with AIHA-ELLAP policies.

LSD= 0.2 ppm; MDL= 4.7 micrograms/ft^2; RL= 10.0 micrograms/ft^2; (based upon 1.0 square foot sampled).

The EPA 403 Final Rule (40 CFR 745.63) requires that all wipe samples of settled dust shall be collected using a wipe that meets ASTM E1792.

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 complete list with highlighted disclaimers pertinent to this project. For a full explanation of these and other disclaimers, please inquire at customerservice@iatl.com.

NOTE: Incomplete digestion of wipe material may result in low recovery of lead. The EPA403 Final Rule (40 CFR 745.63) requires that all wipe samples of settled dust shall be collected using a wipe that meets ASTM E1792. Results for wipes not meeting ASTM E1792 are not recognized within the Accreditation Program.

< less than sign, signifies none-detected below the empirical value based upon sub-sampled mass. This is often below the Reporting Limit (see above).

APPENDIX C

Lead Analyzer Test Results

LEAD ANALYZER TEST RESULTS

Heuresis Pb200i, Serial No. 1770

NO.	SITE	INSPECTOR	FLOOR	ROOM	COMPONENT	SUBSTRATE	CONDITION	COLOR	DURATION	TIME	RESULTS		
											LBP	mg/cm^2	+/- ERROR
1	SNOWDEN	LAMONT	0	0	CALIBRATION	0	0	GREEN	5	3/01/22 09:58:59	NEGATIVE	0.7	0.2
2	SNOWDEN	LAMONT	0	0	CALIBRATION	0	0	GREEN	2	3/01/22 10:00:19	NEGATIVE	0.4	0.3
3	**SNOWDEN**	**LAMONT**	**0**	**0**	**CALIBRATION**	**0**	**0**	**GREEN**	**5**	**3/01/22 10:02:18**	**POSITIVE**	**1**	**0.2**
4	**SNOWDEN**	**LAMONT**	**0**	**0**	**CALIBRATION**	**0**	**0**	**GREEN**	**5**	**3/01/22 10:02:56**	**POSITIVE**	**1**	**0.2**
5	**SNOWDEN**	**LAMONT**	**0**	**0**	**CALIBRATION**	**0**	**0**	**GREEN**	**5**	**3/01/22 10:03:32**	**POSITIVE**	**1**	**0.2**
6	SNOWDEN	LAMONT	3	BOILER ROOM	DOOR FRAME	METAL	INTACT	WHITE	2	3/01/22 10:04:31	NEGATIVE	0.1	0.3
7	SNOWDEN	LAMONT	3	BOILER ROOM	DOOR TRIM	METAL	INTACT	BROWN	2	3/01/22 10:05:55	NEGATIVE	0.4	0.3
8	SNOWDEN	LAMONT	3	BOILER ROOM	ELECTRICAL PANEL	METAL	INTACT	GRAY	2	3/01/22 10:06:29	NEGATIVE	0.3	0.3
9	SNOWDEN	LAMONT	3	BOILER ROOM	WALL	CMU	FAIR	WHITE	2	3/01/22 10:07:45	NEGATIVE	-0.1	0.3
10	SNOWDEN	LAMONT	3	BOILER ROOM	FLOOR	CONCRETE	POOR	GRAY	2	3/01/22 10:08:25	NEGATIVE	0.3	0.3
11	SNOWDEN	LAMONT	3	BOILER ROOM	BOILER	METAL	INTACT	GRAY	2	3/01/22 10:09:08	NEGATIVE	0	0.3
12	SNOWDEN	LAMONT	3	BOILER ROOM	MECHANICAL EQUIP	METAL	INTACT	GRAY	2	3/01/22 10:10:04	NEGATIVE	0.1	0.3
13	SNOWDEN	LAMONT	3	BOILER ROOM	EQUIPMENT	METAL	INTACT	RED	2	3/01/22 10:10:50	NEGATIVE	0.3	0.3
14	SNOWDEN	LAMONT	3	BOILER ROOM	EQUIPMENT	METAL	INTACT	RED	2	3/01/22 10:13:10	NEGATIVE	0.5	0.3
15	SNOWDEN	LAMONT	3	BOILER ROOM	DOOR FRAME	METAL	INTACT	WHITE	2	3/01/22 10:14:05	NEGATIVE	0.2	0.3
16	SNOWDEN	LAMONT	3	BOILER ROOM	DOOR FRAME	WOOD	INTACT	BROWN	2	3/01/22 10:14:36	NEGATIVE	0.1	0.3
17	SNOWDEN	LAMONT	3	BOILER ROOM	MECHANICAL EQUIP	METAL	INTACT	GRAY	2	3/01/22 10:15:16	NEGATIVE	0.1	0.3
18	SNOWDEN	LAMONT	3	BOILER ROOM	ELECTRICAL PANEL	METAL	INTACT	GRAY	2	3/01/22 10:15:52	NEGATIVE	0.1	0.3
19	SNOWDEN	LAMONT	3	BOILER ROOM	FLOOR	CONCRETE	POOR	GRAY	2	3/01/22 10:17:02	NEGATIVE	0.2	0.3
20	SNOWDEN	LAMONT	3	BOILER ROOM	ELECTRICAL PANEL	METAL	INTACT	GRAY	2	3/01/22 10:18:13	NEGATIVE	0.1	0.3
21	SNOWDEN	LAMONT	3	BOILER ROOM	COLUMN	CONCRETE	FAIR	WHITE	2	3/01/22 10:18:51	NEGATIVE	0.4	0.3
22	SNOWDEN	LAMONT	3	BOILER ROOM	WALL	CMU	FAIR	WHITE	2	3/01/22 10:19:22	NEGATIVE	0.1	0.3
23	SNOWDEN	LAMONT	3	BATHROOM	TOILET	CERAMIC	INTACT	WHITE	2	3/01/22 10:20:35	NEGATIVE	0	0.3
24	SNOWDEN	LAMONT	3	BATHROOM	WALL	FRP	INTACT	WHITE	2	3/01/22 10:21:25	NEGATIVE	0.1	0.3
25	SNOWDEN	LAMONT	3	BATHROOM	CEILING	DRYWALL	INTACT	WHITE	2	3/01/22 10:23:16	NEGATIVE	0.1	0.3
26	SNOWDEN	LAMONT	3	BATHROOM	CEILING	DRYWALL	INTACT	WHITE	2	3/01/22 10:23:34	NEGATIVE	0.1	0.3
27	SNOWDEN	LAMONT	3	BATHROOM	COVE BASE	PLASTIC	INTACT	BLUE	2	3/01/22 10:24:16	NEGATIVE	0.2	0.3
28	SNOWDEN	LAMONT	3	BATHROOM	COUNTERTOP	FORMICA	INTACT	BLUE	2	3/01/22 10:25:07	NEGATIVE	0.2	0.3
29	SNOWDEN	LAMONT	3	BATHROOM	PARTITION	METAL	INTACT	BEIGE	2	3/01/22 10:26:13	NEGATIVE	0.1	0.3
30	SNOWDEN	LAMONT	3	BATHROOM	SINK	CERAMIC	INTACT	WHITE	2	3/01/22 10:27:00	NEGATIVE	-0.2	0.3
31	SNOWDEN	LAMONT	3	STAIRWAY	DOOR	METAL	INTACT	BEIGE	2	3/01/22 10:28:09	NEGATIVE	0.2	0.3
32	SNOWDEN	LAMONT	3	STAIRWAY	DOOR FRAME	METAL	INTACT	BEIGE	2	3/01/22 10:28:36	NEGATIVE	0.2	0.3
33	SNOWDEN	LAMONT	3	STAIRWAY	FLOOR	RUBBER	INTACT	GRAY	2	3/01/22 10:29:22	NEGATIVE	0.4	0.3
34	SNOWDEN	LAMONT	3	STAIRWAY	HAND RAIL	METAL	INTACT	WHITE	2	3/01/22 10:30:01	NEGATIVE	0.1	0.3
35	SNOWDEN	LAMONT	3	STAIRWAY	WALL	DRYWALL	INTACT	WHITE	2	3/01/22 10:30:43	NEGATIVE	0.2	0.3
36	SNOWDEN	LAMONT	3	STAIRWAY	WALL	DRYWALL	INTACT	WHITE	2	3/01/22 10:31:02	NEGATIVE	0.2	0.3
37	SNOWDEN	LAMONT	3	BOILER ROOM	BEAM	METAL	FAIR	RED	2	3/01/22 10:34:40	NEGATIVE	0.2	0.3
38	SNOWDEN	LAMONT	3	BOILER ROOM	PIPE	METAL	FAIR	RED	2	3/01/22 10:35:32	NEGATIVE	0.2	0.3
39	SNOWDEN	LAMONT	2	STAIRWAY	WALL	DRYWALL	INTACT	WHITE	2	3/01/22 11:02:02	NEGATIVE	0.2	0.3
40	SNOWDEN	LAMONT	2	STAIRWAY	HAND RAIL	METAL	INTACT	WHITE	2	3/01/22 11:03:06	NEGATIVE	0.2	0.3
41	SNOWDEN	LAMONT	2	STAIRWAY	RISER	RUBBER	INTACT	GRAY	2	3/01/22 11:03:48	NEGATIVE	0.1	0.3
42	SNOWDEN	LAMONT	2	STAIRWAY	DOOR FRAME	METAL	INTACT	WHITE	2	3/01/22 11:04:35	NEGATIVE	0.2	0.3
43	SNOWDEN	LAMONT	2	STAIRWAY	DOOR TRIM	METAL	INTACT	TAN	2	3/01/22 11:05:14	NEGATIVE	0.2	0.3
44	SNOWDEN	LAMONT	2	STAIRWAY	WALL	DRYWALL	INTACT	WHITE	2	3/01/22 11:06:23	NEGATIVE	0.2	0.3
45	SNOWDEN	LAMONT	2	LOBBY	WALL	DRYWALL	INTACT	WHITE	2	3/01/22 11:12:07	NEGATIVE	0.1	0.3
46	SNOWDEN	LAMONT	2	LOBBY	COUNTERTOP	FORMICA	INTACT	BEIGE	2	3/01/22 11:14:03	NEGATIVE	0.1	0.3
47	SNOWDEN	LAMONT	2	LOBBY	WINDOW FRAME	METAL	INTACT	BLACK	2	3/01/22 11:14:56	NEGATIVE	0.1	0.3

LEAD ANALYZER TEST RESULTS

NO.	SITE	INSPECTOR	FLOOR	ROOM	COMPONENT	SUBSTRATE	CONDITION	COLOR	DURATION	TIME	RESULTS		
											LBP	mg/cm^2	+/- ERROR
48	SNOWDEN	LAMONT	2	LOBBY	COLUMN	DRYWALL	INTACT	WHITE	2	3/01/22 11:15:31	NEGATIVE	0	0.3
49	SNOWDEN	LAMONT	2	LOBBY	DOOR TRIM	METAL	INTACT	WHITE	2	3/01/22 11:16:40	NEGATIVE	0.1	0.3
50	SNOWDEN	LAMONT	2	LOBBY	DOOR	METAL	INTACT	BLACK	2	3/01/22 11:17:43	NEGATIVE	0.4	0.3
51	SNOWDEN	LAMONT	2	LOBBY	WINDOW SILL	METAL	INTACT	WHITE	2	3/01/22 11:19:04	NEGATIVE	0.1	0.3
52	SNOWDEN	LAMONT	2	CORRIDOR	WINDOW CASING	METAL	INTACT	WHITE	2	3/01/22 11:22:06	NEGATIVE	0.1	0.3
53	SNOWDEN	LAMONT	2	CORRIDOR	COLUMN	DRYWALL	INTACT	WHITE	2	3/01/22 11:23:10	NEGATIVE	0.1	0.3
54	SNOWDEN	LAMONT	2	FAN ROOM	MECHANICAL EQUIP	METAL	INTACT	GRAY	2	3/01/22 11:24:48	NEGATIVE	0.2	0.3
55	SNOWDEN	LAMONT	2	FAN ROOM	ELECTRICAL PANEL	METAL	INTACT	GRAY	2	3/01/22 11:26:22	NEGATIVE	0.1	0.3
56	SNOWDEN	LAMONT	2	FAN ROOM	ELECTRICAL PANEL	METAL	INTACT	OFF-WHITE	2	3/01/22 11:26:53	NEGATIVE	0.2	0.3
57	SNOWDEN	LAMONT	2	FAN ROOM	DUCT	CLOTH	FAIR	OFF-WHITE	2	3/01/22 11:28:03	NEGATIVE	0.1	0.3
58	SNOWDEN	LAMONT	2	FAN ROOM	PAD	METAL	INTACT	GREEN	2	3/01/22 11:29:45	NEGATIVE	0.2	0.3
59	SNOWDEN	LAMONT	2	FAN ROOM	DOOR FRAME	METAL	INTACT	WHITE	2	3/01/22 11:31:17	NEGATIVE	0.2	0.3
60	SNOWDEN	LAMONT	2	FAN ROOM	DOOR	WOOD	INTACT	VARNISH	2	3/01/22 11:31:46	NEGATIVE	0	0.3
61	SNOWDEN	LAMONT	2	OFFICE	WALL	DRYWALL	INTACT	VARNISH	2	3/01/22 11:32:39	NEGATIVE	0.1	0.3
62	SNOWDEN	LAMONT	2	STORAGE	WALL	DRYWALL	INTACT	VARNISH	2	3/01/22 11:36:47	NEGATIVE	0.2	0.3
63	SNOWDEN	LAMONT	2	STORAGE	WALL	DRYWALL	INTACT	VARNISH	2	3/01/22 11:37:09	NEGATIVE	0.2	0.3
64	SNOWDEN	LAMONT	2	STORAGE	CONDUIT	METAL	INTACT	GRAY	2	3/01/22 11:37:53	NEGATIVE	0.1	0.3
65	SNOWDEN	LAMONT	2	KITCHEN	COUNTERTOP	FORMICA	INTACT	OFF-WHITE	2	3/01/22 11:44:06	NEGATIVE	0.3	0.3
66	SNOWDEN	LAMONT	2	KITCHEN	CABINET	FORMICA	INTACT	OFF-WHITE	2	3/01/22 11:44:52	NEGATIVE	0.2	0.3
67	SNOWDEN	LAMONT	2	KITCHEN	WALL	DRYWALL	INTACT	WHITE	2	3/01/22 11:45:45	NEGATIVE	0.2	0.3
68	SNOWDEN	LAMONT	2	HALL	DOOR FRAME	METAL	INTACT	WHITE	2	3/01/22 11:47:19	NEGATIVE	0.2	0.3
69	SNOWDEN	LAMONT	2	HALL	DOOR TRIM	METAL	INTACT	GRAY	2	3/01/22 11:47:50	NEGATIVE	0.1	0.3
70	SNOWDEN	LAMONT	2	HALL	DOOR FRAME	METAL	INTACT	BLACK	2	3/01/22 11:54:07	NEGATIVE	0.3	0.3
71	SNOWDEN	LAMONT	2	HALL	DOOR	WOOD	INTACT	VARNISH	2	3/01/22 11:54:42	NEGATIVE	0.1	0.3
72	SNOWDEN	LAMONT	2	HALL	WALL	VINYL	INTACT	WHITE	2	3/01/22 11:56:07	NEGATIVE	0.2	0.3
73	SNOWDEN	LAMONT	2	HALL	WINDOW CASING	WOOD	INTACT	WHITE	2	3/01/22 11:57:30	NEGATIVE	0.2	0.3
74	SNOWDEN	LAMONT	2	HALL	DOOR FRAME	WOOD	INTACT	WHITE	2	3/01/22 11:58:22	NEGATIVE	0.1	0.3
75	SNOWDEN	LAMONT	2	HALL	DOOR	WOOD	INTACT	WHITE	2	3/01/22 11:58:47	NEGATIVE	0	0.3
76	SNOWDEN	LAMONT	2	HALL	HAND RAIL	METAL	INTACT	WHITE	2	3/01/22 12:00:58	NEGATIVE	0	0.3
77	SNOWDEN	LAMONT	2	HALL	WALL	DRYWALL	INTACT	WHITE	2	3/01/22 12:03:45	NEGATIVE	0.1	0.3
78	SNOWDEN	LAMONT	2	HALL	WALL	DRYWALL	INTACT	YELLOW	2	3/01/22 12:04:26	NEGATIVE	0.2	0.3
79	SNOWDEN	LAMONT	2	OFFICE	RADIATOR	METAL	INTACT	OFF-WHITE	2	3/01/22 12:05:28	NEGATIVE	0.1	0.3
80	SNOWDEN	LAMONT	2	OFFICE	WINDOW FRAME	METAL	INTACT	BROWN	2	3/01/22 12:06:05	NEGATIVE	0	0.3
81	SNOWDEN	LAMONT	2	OFFICE	WALL	DRYWALL	INTACT	BEIGE	2	3/01/22 12:07:08	NEGATIVE	0.2	0.3
82	SNOWDEN	LAMONT	2	OFFICE	RADIATOR	METAL	INTACT	BLACK	2	3/01/22 12:08:00	NEGATIVE	0.1	0.3
83	SNOWDEN	LAMONT	2	OFFICE	WINDOW FRAME	WOOD	INTACT	BEIGE	2	3/01/22 12:08:53	NEGATIVE	0.1	0.3
84	SNOWDEN	LAMONT	2	HALL	DOOR FRAME	METAL	INTACT	OFF-WHITE	2	3/01/22 12:10:34	NEGATIVE	0.1	0.3
85	SNOWDEN	LAMONT	2	HALL	DOOR	METAL	INTACT	OFF-WHITE	2	3/01/22 12:10:58	NEGATIVE	0.1	0.3
86	SNOWDEN	LAMONT	2	HALL	HAND RAIL	METAL	INTACT	OFF-WHITE	2	3/01/22 12:11:47	NEGATIVE	0.1	0.3
87	SNOWDEN	LAMONT	2	EXTERIOR	WALL	CMU	INTACT	OFF-WHITE	2	3/01/22 12:12:36	NEGATIVE	0.2	0.3
88	SNOWDEN	LAMONT	2	CORRIDOR	WALL	DRYWALL	INTACT	WHITE	2	3/01/22 12:13:49	NEGATIVE	0.2	0.3
89	SNOWDEN	LAMONT	2	OFFICE	PARTITION	METAL	INTACT	WHITE	2	3/01/22 12:15:21	NEGATIVE	0.4	0.3
90	SNOWDEN	LAMONT	2	OFFICE	WINDOW FRAME	FORMICA	INTACT	WHITE	2	3/01/22 12:17:14	NEGATIVE	0.2	0.3
91	SNOWDEN	LAMONT	2	OFFICE	WINDOW FRAME	METAL	INTACT	BLACK	2	3/01/22 12:17:44	NEGATIVE	0.1	0.3
92	SNOWDEN	LAMONT	2	OFFICE	RADIATOR	METAL	INTACT	OFF-WHITE	2	3/01/22 12:18:23	NEGATIVE	0.1	0.3
93	SNOWDEN	LAMONT	2	CORRIDOR	MECHANICAL EQUIP	METAL	INTACT	BEIGE	2	3/01/22 12:19:26	NEGATIVE	0	0.3
94	SNOWDEN	LAMONT	2	CORRIDOR	MECHANICAL EQUIP	METAL	INTACT	BEIGE	2	3/01/22 12:30:20	NEGATIVE	0.1	0.3
95	SNOWDEN	LAMONT	2	MEETING ROOM	MECHANICAL EQUIP	WOOD	INTACT	DK BROWN	2	3/01/22 12:33:31	NEGATIVE	0.2	0.3

LEAD ANALYZER TEST RESULTS

NO.	SITE	INSPECTOR	FLOOR	ROOM	COMPONENT	SUBSTRATE	CONDITION	COLOR	DURATION	TIME	RESULTS		
											LBP	mg/cm^2	+/- ERROR
96	SNOWDEN	LAMONT	2	MEETING ROOM	DOOR TRIM	METAL	INTACT	DK BROWN	2	3/01/22 12:34:26	NEGATIVE	0.1	0.3
97	SNOWDEN	LAMONT	2	MEETING ROOM	WALL BOARD	WOOD	INTACT	DK BROWN	2	3/01/22 12:35:12	NEGATIVE	0	0.3
98	SNOWDEN	LAMONT	2	BATHROOM	WALL	DRYWALL	INTACT	WHITE	2	3/01/22 12:57:40	NEGATIVE	0.1	0.3
99	SNOWDEN	LAMONT	2	BATHROOM	WALL	PLASTIC	INTACT	GRAY	2	3/01/22 12:58:44	NEGATIVE	0.3	0.3
100	SNOWDEN	LAMONT	2	BATHROOM	FLOOR	CERAMIC	INTACT	OFF-WHITE	2	3/01/22 12:59:40	NEGATIVE	0.2	0.3
101	SNOWDEN	LAMONT	2	BATHROOM	TOILET	CERAMIC	INTACT	WHITE	2	3/01/22 13:00:28	NEGATIVE	0	0.3
102	SNOWDEN	LAMONT	2	BATHROOM	SINK	CERAMIC	INTACT	WHITE	2	3/01/22 13:01:10	NEGATIVE	-0.3	0.3
103	SNOWDEN	LAMONT	2	BATHROOM	COUNTERTOP	FORMICA	INTACT	BLUE	2	3/01/22 13:02:00	NEGATIVE	0.3	0.3
104	SNOWDEN	LAMONT	2	CORRIDOR	WALL	DRYWALL	INTACT	WHITE	2	3/01/22 13:03:17	NEGATIVE	0.2	0.3
105	SNOWDEN	LAMONT	2	CORRIDOR	WALL	DRYWALL	INTACT	WHITE	2	3/01/22 13:05:07	NEGATIVE	0.2	0.3
106	SNOWDEN	LAMONT	2	CORRIDOR	HAND RAIL	METAL	INTACT	WHITE	2	3/01/22 13:06:07	NEGATIVE	0.1	0.3
107	SNOWDEN	LAMONT	2	FAN ROOM	MECHANICAL EQUIP	METAL	INTACT	BEIGE	2	3/01/22 13:25:39	NEGATIVE	0.2	0.3
108	SNOWDEN	LAMONT	2	FAN ROOM	MECHANICAL EQUIP	METAL	INTACT	GRAY	2	3/01/22 13:26:15	NEGATIVE	0.1	0.3
109	SNOWDEN	LAMONT	1	STAIRWAY	WALL	DRYWALL	INTACT	WHITE	2	3/01/22 13:35:41	NEGATIVE	0.1	0.3
110	SNOWDEN	LAMONT	1	STAIRWAY	HAND RAIL	METAL	INTACT	WHITE	2	3/01/22 13:36:20	NEGATIVE	0	0.3
111	SNOWDEN	LAMONT	1	STAIRWAY	RISER	WOOD	INTACT	WHITE	2	3/01/22 13:36:51	NEGATIVE	0.1	0.3
112	SNOWDEN	LAMONT	1	STAIRWAY	RAILING	WOOD	INTACT	VARNISH	2	3/01/22 13:37:46	NEGATIVE	0.2	0.3
113	SNOWDEN	LAMONT	1	UTILITY	WALL	CMU	INTACT	WHITE	2	3/01/22 13:41:37	NEGATIVE	0.3	0.3
114	SNOWDEN	LAMONT	1	UTILITY	WALL	CMU	INTACT	WHITE	2	3/01/22 13:41:55	NEGATIVE	0.3	0.3
115	SNOWDEN	LAMONT	1	UTILITY	WALL	CMU	INTACT	WHITE	2	3/01/22 13:42:24	NEGATIVE	0.1	0.3
116	SNOWDEN	LAMONT	1	UTILITY	WALL	CMU	INTACT	WHITE	2	3/01/22 13:42:47	NEGATIVE	0.1	0.3
117	SNOWDEN	LAMONT	1	UTILITY	DOOR FRAME	METAL	INTACT	WHITE	5	3/01/22 13:43:24	NEGATIVE	0.7	0.2
118	SNOWDEN	LAMONT	1	UTILITY	DOOR	METAL	INTACT	WHITE	2	3/01/22 13:44:04	NEGATIVE	0.1	0.3
119	SNOWDEN	LAMONT	1	UTILITY	EQUIPMENT	METAL	INTACT	WHITE	2	3/01/22 13:44:45	NEGATIVE	0.1	0.3
120	SNOWDEN	LAMONT	1	UTILITY	EQUIPMENT	METAL	INTACT	GRAY	2	3/01/22 13:45:16	NEGATIVE	0.1	0.3
121	SNOWDEN	LAMONT	1	UTILITY	EQUIPMENT	METAL	INTACT	RED	2	3/01/22 13:49:56	NEGATIVE	0.1	0.3
122	SNOWDEN	LAMONT	1	UTILITY	ELECTRICAL PANEL	METAL	INTACT	GRAY	2	3/01/22 13:50:50	NEGATIVE	0.1	0.3
123	SNOWDEN	LAMONT	1	UTILITY	ELECTRICAL PANEL	METAL	INTACT	GRAY	2	3/01/22 13:51:20	NEGATIVE	0.1	0.3
124	SNOWDEN	LAMONT	1	GARAGE	WALL	CMU	INTACT	WHITE	2	3/01/22 13:52:28	NEGATIVE	0.1	0.3
125	SNOWDEN	LAMONT	1	GARAGE	WALL	CMU	INTACT	WHITE	2	3/01/22 13:52:47	NEGATIVE	0.2	0.3
126	SNOWDEN	LAMONT	1	GARAGE	ELECTRICAL PANEL	METAL	INTACT	GRAY	2	3/01/22 13:53:56	NEGATIVE	0.1	0.3
127	SNOWDEN	LAMONT	1	HALL	FLOOR	CERAMIC	FAIR	OFF-WHITE	2	3/01/22 13:55:03	NEGATIVE	0.2	0.3
128	SNOWDEN	LAMONT	1	HALL	FLOOR	CERAMIC	FAIR	WHITE	2	3/01/22 13:55:36	NEGATIVE	-0.2	0.3
129	SNOWDEN	LAMONT	1	HALL	SINK	CERAMIC	INTACT	WHITE	2	3/01/22 13:56:07	NEGATIVE	0.1	0.3
130	SNOWDEN	LAMONT	1	HALL	COUNTERTOP	FORMICA	INTACT	BLUE	2	3/01/22 13:56:46	NEGATIVE	0.2	0.3
131	SNOWDEN	LAMONT	1	CEILING SPACE	WALL	CONCRETE	INTACT	BLACK	2	3/01/22 14:01:45	NEGATIVE	0.3	0.3
132	SNOWDEN	LAMONT	1	CEILING SPACE	WALL	DRYWALL	INTACT	WHITE	2	3/01/22 14:02:56	NEGATIVE	0.2	0.3
133	SNOWDEN	LAMONT	1	STAIRWAY	WALL	DRYWALL	INTACT	WHITE	2	3/01/22 14:06:18	NEGATIVE	0.1	0.3
134	SNOWDEN	LAMONT	1	STAIRWAY	RADIATOR	METAL	INTACT	WHITE	2	3/01/22 14:06:58	NEGATIVE	0.1	0.3
135	SNOWDEN	LAMONT	1	STAIRWAY	DOOR FRAME	METAL	INTACT	BEIGE	2	3/01/22 14:07:37	NEGATIVE	0.1	0.3
136	SNOWDEN	LAMONT	1	STAIRWAY	DOOR	METAL	INTACT	BEIGE	2	3/01/22 14:08:00	NEGATIVE	0.1	0.3
137	SNOWDEN	LAMONT	1	STAIRWAY	COVE BASE	METAL	INTACT	GRAY	2	3/01/22 14:08:46	NEGATIVE	0.1	0.3
138	**SNOWDEN**	**LAMONT**	**1**	**CEILING SPACE**	**BEAM**	**METAL**	**FAIR**	**TAN**	**2**	**3/01/22 14:12:37**	**POSITIVE**	**2.5**	**0.3**
139	SNOWDEN	LAMONT	1	CEILING SPACE	CEILING	PLASTER	POOR	TAN	2	3/01/22 14:13:19	NEGATIVE	0.1	0.3
140	SNOWDEN	LAMONT	1	CEILING SPACE	COLUMN	METAL	FAIR	RED	5	3/01/22 14:16:34	NEGATIVE	0.9	0.2
141	SNOWDEN	LAMONT	1	STORAGE	ELECTRICAL PANEL	METAL	INTACT	WHITE	2	3/01/22 14:19:39	NEGATIVE	0.1	0.3
142	SNOWDEN	LAMONT	1	STORAGE	ELECTRICAL PANEL	METAL	INTACT	WHITE	2	3/01/22 14:21:46	NEGATIVE	0.1	0.3
143	SNOWDEN	LAMONT	1	STORAGE	ELECTRICAL PANEL	METAL	INTACT	WHITE	2	3/01/22 14:22:56	NEGATIVE	0.1	0.3

LEAD ANALYZER TEST RESULTS

NO.	SITE	INSPECTOR	FLOOR	ROOM	COMPONENT	SUBSTRATE	CONDITION	COLOR	DURATION	TIME	RESULTS		
											LBP	mg/cm^2	+/- ERROR
144	SNOWDEN	LAMONT	1	STORAGE	ELECTRICAL PANEL	METAL	INTACT	WHITE	2	3/01/22 14:23:19	NEGATIVE	0.1	0.3
145	SNOWDEN	LAMONT	1	STORAGE	ELECTRICAL PANEL	METAL	INTACT	WHITE	2	3/01/22 14:24:44	NEGATIVE	0.2	0.3
146	SNOWDEN	LAMONT	1	STORAGE	ELECTRICAL PANEL	METAL	INTACT	WHITE	2	3/01/22 14:25:34	NEGATIVE	0.3	0.3
147	SNOWDEN	LAMONT	1	STORAGE	ELECTRICAL PANEL	METAL	INTACT	WHITE	2	3/01/22 14:26:41	NEGATIVE	0.2	0.3
148	SNOWDEN	LAMONT	1	STORAGE	ELECTRICAL PANEL	METAL	INTACT	WHITE	2	3/01/22 14:28:02	NEGATIVE	0.1	0.3
149	SNOWDEN	LAMONT	1	CORRIDOR	ELECTRICAL PANEL	METAL	INTACT	GRAY	2	3/01/22 14:32:05	NEGATIVE	0.1	0.3
150	SNOWDEN	LAMONT	1	CORRIDOR	ELECTRICAL PANEL	METAL	INTACT	LT BROWN	2	3/01/22 14:33:23	NEGATIVE	0.1	0.3
151	SNOWDEN	LAMONT	1	OFFICE	EQUIPMENT	METAL	INTACT	GRAY	2	3/01/22 14:36:39	NEGATIVE	0.1	0.3
152	SNOWDEN	LAMONT	1	OFFICE	EQUIPMENT	METAL	INTACT	GRAY	2	3/01/22 14:37:02	NEGATIVE	0.1	0.3
153	SNOWDEN	LAMONT	1	OFFICE	EQUIPMENT	METAL	INTACT	GRAY	2	3/01/22 14:37:32	NEGATIVE	0.1	0.3
154	SNOWDEN	LAMONT	1	OFFICE	WALL	DRYWALL	INTACT	GRAY	2	3/01/22 14:40:42	NEGATIVE	0.2	0.3
155	SNOWDEN	LAMONT	1	OFFICE	FLOOR TILE	CERAMIC	INTACT	WHITE	2	3/01/22 14:42:40	NEGATIVE	0.3	0.3
156	SNOWDEN	LAMONT	1	OFFICE	RADIATOR	METAL	INTACT	WHITE	2	3/01/22 14:44:12	NEGATIVE	0.1	0.3
157	**SNOWDEN**	**LAMONT**	**1**	**STORAGE**	**BEAM**	**METAL**	**FAIR**	**RED**	**2**	**3/01/22 14:48:10**	**POSITIVE**	**2.7**	**0.3**
158	SNOWDEN	LAMONT	1	STORAGE	CEILING	PLASTER	INTACT	OFF-WHITE	2	3/01/22 15:24:31	NEGATIVE	0.3	0.3
159	SNOWDEN	LAMONT	1	STORAGE	ELECTRICAL PANEL	METAL	INTACT	GRAY	2	3/01/22 15:26:15	NEGATIVE	0.1	0.3
160	SNOWDEN	LAMONT	1	STORAGE	WALL	DRYWALL	INTACT	GRAY	2	3/01/22 15:26:49	NEGATIVE	0.2	0.3
161	SNOWDEN	LAMONT	1	UTILIDOR	DOOR	METAL	INTACT	GRAY	2	3/01/22 15:28:25	NEGATIVE	0.1	0.3
162	SNOWDEN	LAMONT	1	UTILIDOR	DOOR	METAL	INTACT	GRAY	2	3/01/22 15:28:46	NEGATIVE	0.1	0.3
163	SNOWDEN	LAMONT	1	UTILIDOR	RADIATOR	METAL	INTACT	GRAY	2	3/01/22 15:29:30	NEGATIVE	0.2	0.3
164	SNOWDEN	LAMONT	1	EXTERIOR	BEAM	METAL	INTACT	YELLOW	2	3/01/22 15:30:38	NEGATIVE	0.2	0.3
165	SNOWDEN	LAMONT	1	OFFICE	ELECTRICAL PANEL	METAL	INTACT	GRAY	2	3/01/22 15:32:40	NEGATIVE	0.4	0.3
166	SNOWDEN	LAMONT	1	MEETING ROOM	WALL	PLASTER	INTACT	OFF-WHITE	2	3/01/22 15:51:35	NEGATIVE	0.2	0.3
167	SNOWDEN	LAMONT	1	MEETING ROOM	WALL	PLASTER	INTACT	OFF-WHITE	2	3/01/22 15:52:17	NEGATIVE	0.1	0.3
168	SNOWDEN	LAMONT	1	MEETING ROOM	CABINET	VINYL	INTACT	OFF-WHITE	2	3/01/22 15:53:33	NEGATIVE	0.1	0.3
169	SNOWDEN	LAMONT	1	MEETING ROOM	COUNTERTOP	FORMICA	INTACT	BEIGE	2	3/01/22 15:54:15	NEGATIVE	0.3	0.3
170	SNOWDEN	LAMONT	1	MEETING ROOM	WALL	DRYWALL	INTACT	OFF-WHITE	2	3/01/22 15:55:49	NEGATIVE	0.1	0.3
171	SNOWDEN	LAMONT	1	MEETING ROOM	WALL	DRYWALL	INTACT	OFF-WHITE	2	3/01/22 15:56:30	NEGATIVE	0.2	0.3
172	SNOWDEN	LAMONT	1	LOBBY	WALL	DRYWALL	INTACT	OFF-WHITE	2	3/01/22 15:57:50	NEGATIVE	0.2	0.3
173	SNOWDEN	LAMONT	1	OFFICE	WALL	DRYWALL	INTACT	OFF-WHITE	2	3/01/22 15:58:27	NEGATIVE	0.2	0.3
174	SNOWDEN	LAMONT	1	OFFICE	WINDOW SILL	METAL	INTACT	BLACK	2	3/01/22 15:59:04	NEGATIVE	0.1	0.3
175	SNOWDEN	LAMONT	1	OFFICE	RADIATOR	METAL	INTACT	WHITE	2	3/01/22 16:00:11	NEGATIVE	0.2	0.3
176	SNOWDEN	LAMONT	1	CEILING SPACE	WALL	CONCRETE	INTACT	BLACK	2	3/01/22 16:02:47	NEGATIVE	0.2	0.3
177	SNOWDEN	LAMONT	1	CEILING SPACE	WALL	PLASTER	INTACT	TAN	2	3/01/22 16:03:59	NEGATIVE	0.2	0.3
178	SNOWDEN	LAMONT	1	CEILING SPACE	WALL	CONCRETE	INTACT	WHITE	2	3/01/22 16:06:35	NEGATIVE	0.3	0.3
179	SNOWDEN	LAMONT	1	OFFICE	WALL	DRYWALL	INTACT	WHITE	2	3/01/22 16:07:32	NEGATIVE	0.2	0.3
180	SNOWDEN	LAMONT	1	EXTERIOR	FLASHING	METAL	INTACT	BEIGE	2	3/01/22 16:11:27	NEGATIVE	0.2	0.3
181	SNOWDEN	LAMONT	1	EXTERIOR	LADDER	METAL	FAIR	BEIGE	2	3/01/22 16:11:59	NEGATIVE	0.2	0.3
182	SNOWDEN	LAMONT	1	EXTERIOR	ELECTRICAL PANEL	METAL	INTACT	GRAY	2	3/01/22 16:12:44	NEGATIVE	0.1	0.3
183	SNOWDEN	LAMONT	1	EXTERIOR	WALL	CONCRETE	INTACT	BEIGE	2	3/01/22 16:13:20	NEGATIVE	0	0.3
184	SNOWDEN	LAMONT	1	EXTERIOR	MECHANICAL EQUIP	METAL	INTACT	BEIGE	2	3/01/22 16:14:42	NEGATIVE	0.1	0.3
185	SNOWDEN	LAMONT	1	EXTERIOR	FLASHING	METAL	INTACT	BLUE	2	3/01/22 16:15:24	NEGATIVE	0.3	0.3
186	SNOWDEN	LAMONT	1	EXTERIOR	FLASHING	METAL	INTACT	BLUE	2	3/01/22 16:16:42	NEGATIVE	0.2	0.3
187	**SNOWDEN**	**LAMONT**	**1**	**EXTERIOR**	**FLASHING**	**METAL**	**INTACT**	**BLUE**	**5**	**3/01/22 16:18:42**	**POSITIVE**	**1.1**	**0.2**
188	**SNOWDEN**	**LAMONT**	**0**	**0**	**CALIBRATION**	**0**	**0**	**0**	**5**	**3/01/22 16:19:28**	**POSITIVE**	**1.1**	**0.2**
189	**SNOWDEN**	**LAMONT**	**0**	**0**	**CALIBRATION**	**0**	**0**	**0**	**5**	**3/01/22 16:20:02**	**POSITIVE**	**1.1**	**0.2**
190	**SNOWDEN**	**LAMONT**	**0**	**0**	**CALIBRATION**	**0**	**0**	**0**	**5**	**3/01/22 16:20:34**	**POSITIVE**	**1**	**0.2**

LEAD ANALYZER TEST RESULTS

NO.	SITE	INSPECTOR	FLOOR	ROOM	COMPONENT	SUBSTRATE	CONDITION	COLOR	DURATION	TIME	RESULTS		
											LBP	mg/cm^2	+/- ERROR

Table Heading Descriptions:

Duration: This is the nominal time in "source" seconds that each sample was analyzed.

LBP: Results are shown as positive (POS $\geq$ 1.0 mg/cm^2) or negative (NEG < 1.0 mg/cm^2). Positive results are shown in bold print.

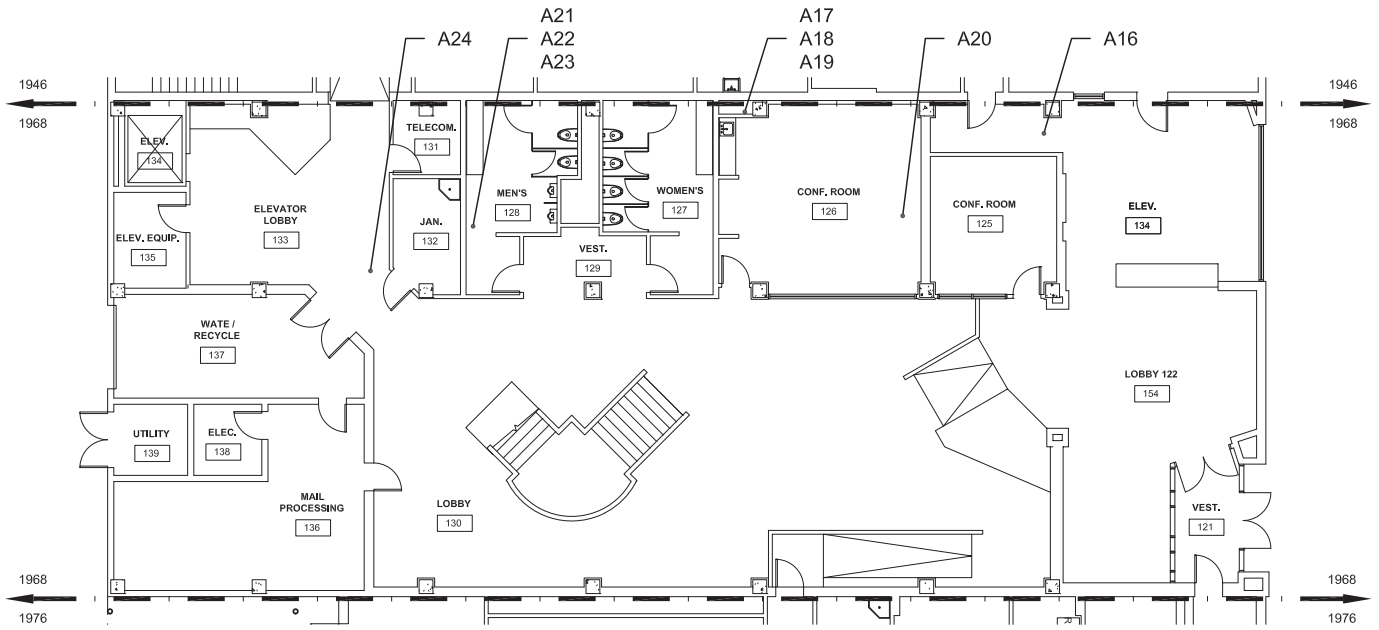
mg/cm2: This is the testing results produced by the Heuresis Pb200i instrument in milligrams of lead per square centimeter (mg/cm^2). The EPA defines lead based paint as paint containing lead at 1.0 mg/cm^2 or greater. A negative number is a result of an internal computation made by the instrument and should be interpreted as zero. Even though paint may be termed negative (less than 1.0 mg/cm^2) by EPA definition, disturbance of the paint may still be regulated by OSHA under 29 CFR 1926.62. Where lead is present at any level, appropriate engineering controls, work practices and personal protective equipment should be used until a negative exposure assessment can be determined. <LOD indicates that the lead present was less than the limits of detection of the instrument (very little or no lead present).

VOID: This indicates that the test was intentionally terminated by the operator due to operator error (e.g. - operator moved analyzer while testing).

Substrate: Where ceramic is shown as a substrate, lead content is typically from the glazing on the tile unless the tile is painted.

APPENDIX D

Drawings of Sample Locations



1
C-1
FIRST FLOOR LOBBY AREA
NTS

NOT IN
SCOPE

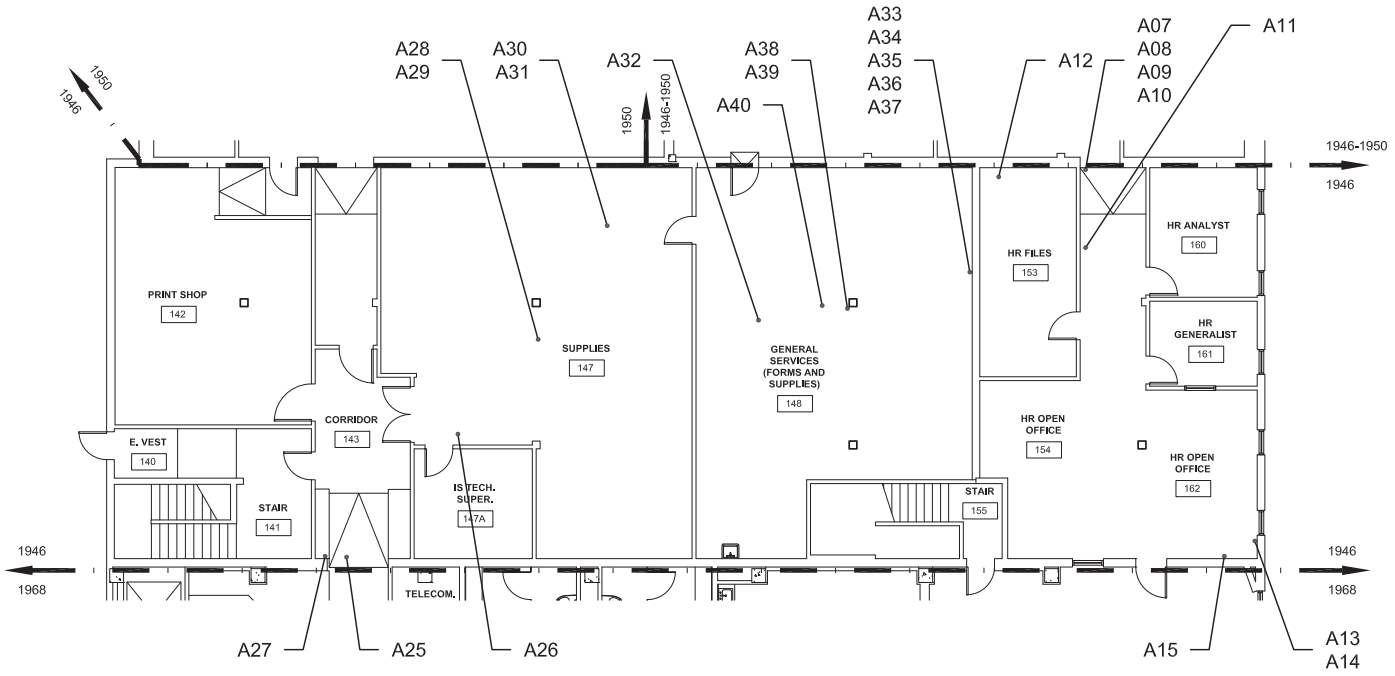
LEGEND

AXX ASBESTOS TEST LOCATION

AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS

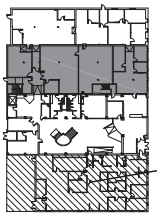
REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE 820-0222- PREFIX.

ALASKA COURT SYSTEM	SNOWDEN BUILDING 820 W 4TH AVE, ANCHORAGE ASBESTOS SAMPLE LOCATIONS	EHS ALASKA INCORPORATED ENGINEERING, HEALTH & SAFETY CONSULTANTS	DRAWN: JHL CHECK: RAF	DATE: 02/17-18/22
			FILE #: 7903-SL	DWG.NO: C-1



1
C-2

FIRST FLOOR IT & HR AREA
NTS



NOT IN SCOPE

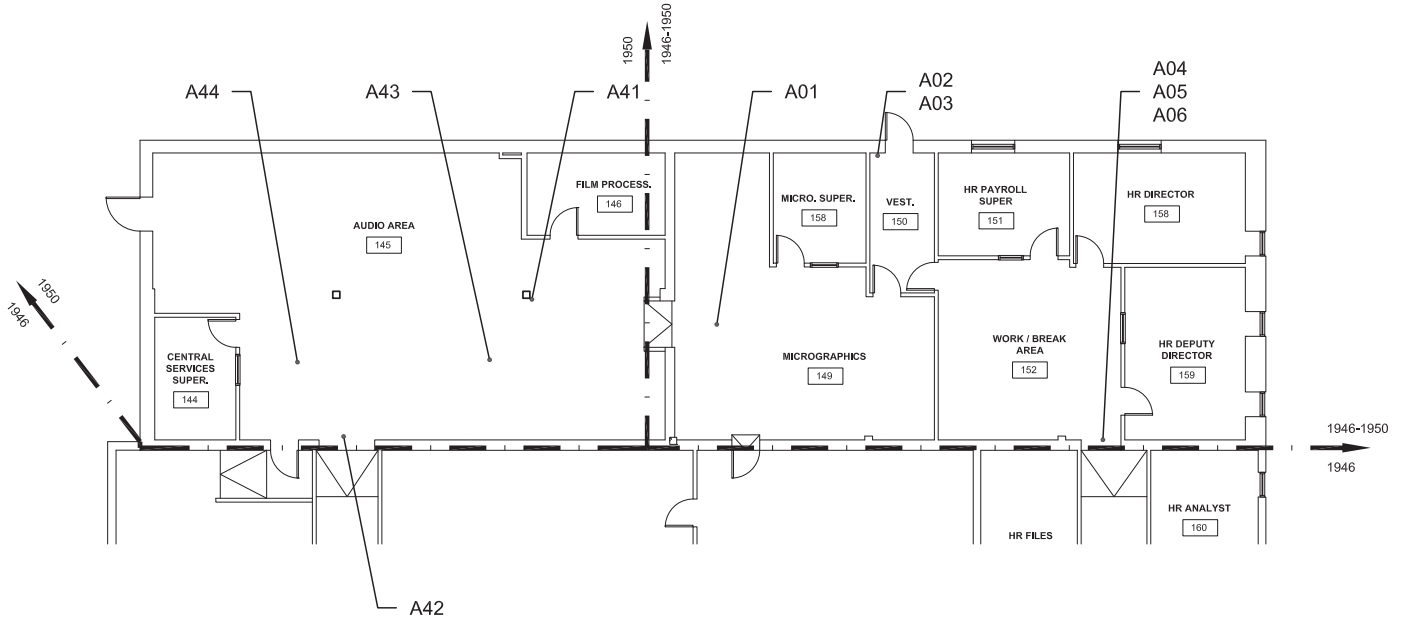
LEGEND

AXX ASBESTOS TEST LOCATION

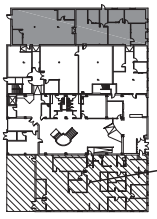
AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS

REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE 820-0222- PREFIX.

ALASKA COURT SYSTEM	SNOWDEN BUILDING 820 W 4TH AVE, ANCHORAGE ASBESTOS SAMPLE LOCATIONS	EHS ALASKA INCORPORATED ENGINEERING, HEALTH & SAFETY CONSULTANTS	DRAWN: JHL CHECK: RAF	DATE: 02/17-18/22
			FILE #: 7903-SL	DWG.NO: C-2



1 / C-3 FIRST FLOOR SERVICES AREA
NTS



NOT IN SCOPE

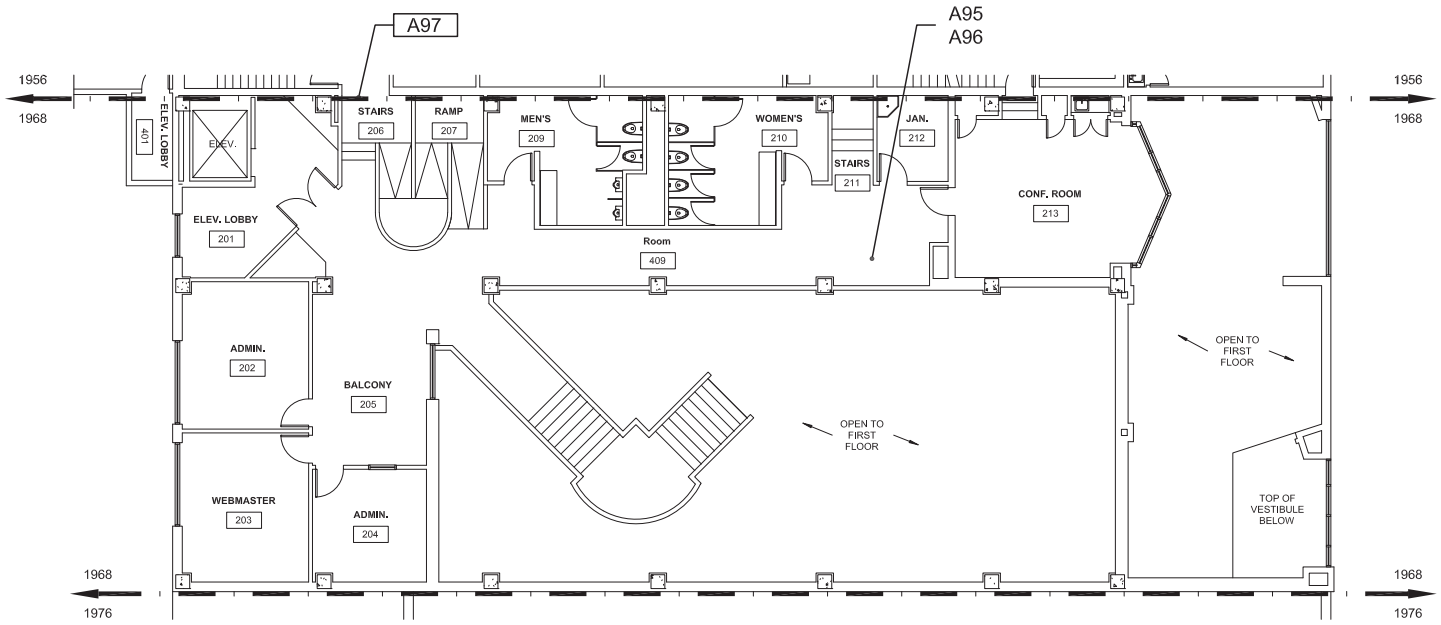
LEGEND

AXX ASBESTOS TEST LOCATION

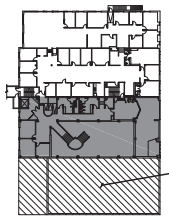
AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS

REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE 820-0222- PREFIX.

ALASKA COURT SYSTEM	SNOWDEN BUILDING 820 W 4TH AVE, ANCHORAGE ASBESTOS SAMPLE LOCATIONS	EHS ALASKA INCORPORATED ENGINEERING, HEALTH & SAFETY CONSULTANTS	DRAWN: JHL CHECK: RAF	DATE: 02/17-18/22
			FILE #: 7903-SL	DWG.NO: C-3



1
C-4
SECOND FLOOR LOBBY AREA
NTS



NOT IN SCOPE

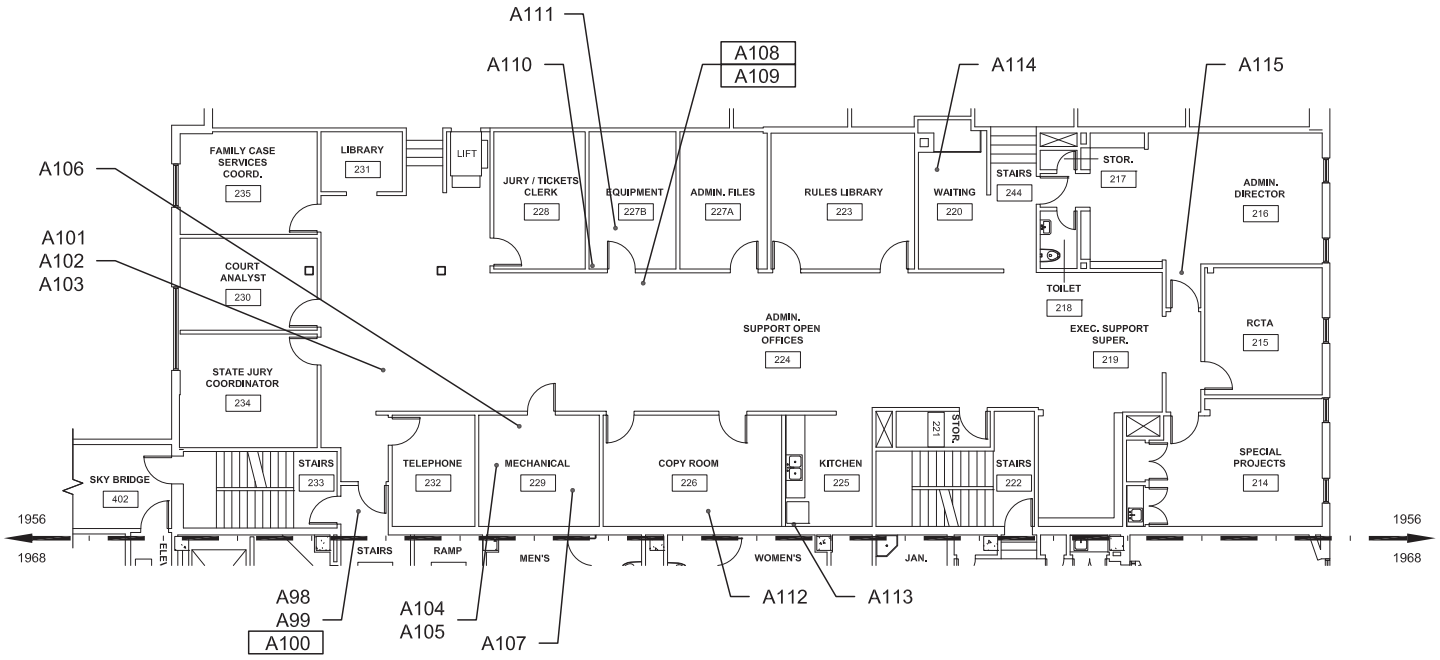
LEGEND

AXX ASBESTOS TEST LOCATION

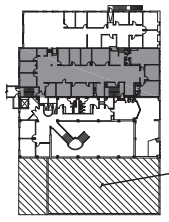
AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS

REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE 820-0222- PREFIX.

ALASKA COURT SYSTEM	SNOWDEN BUILDING 820 W 4TH AVE, ANCHORAGE ASBESTOS SAMPLE LOCATIONS	EHS ALASKA INCORPORATED ENGINEERING, HEALTH & SAFETY CONSULTANTS	DRAWN: JHL CHECK: RAF	DATE: 02/17-18/22
			FILE #: 7903-SL	DWG.NO: C-4



1
C-5
SECOND FLOOR ADMIN AREA
NTS



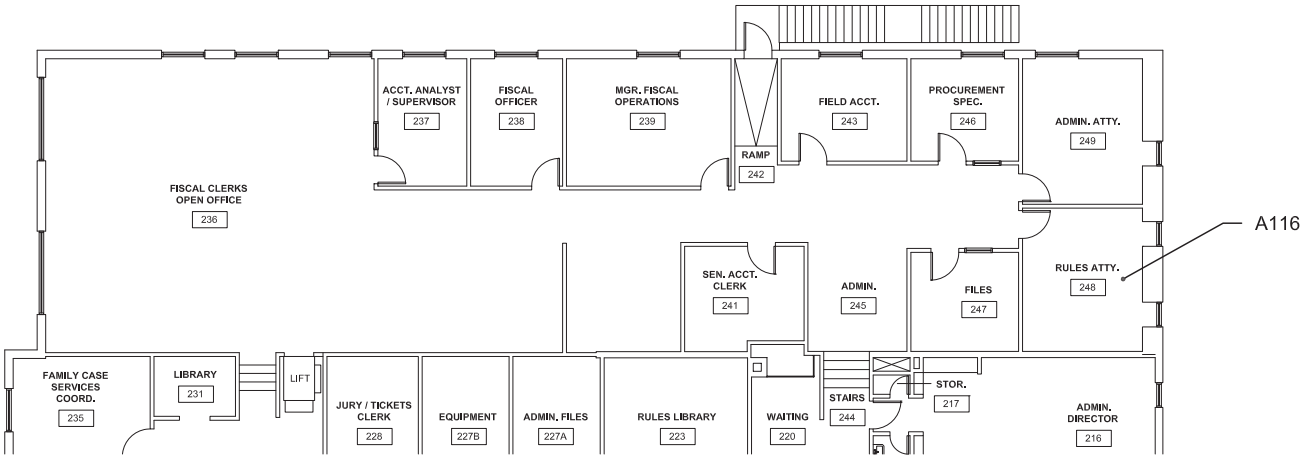
LEGEND

AXX ASBESTOS TEST LOCATION

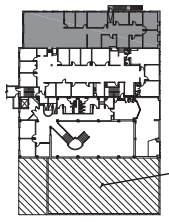
AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS

REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE 820-0222- PREFIX.

ALASKA COURT SYSTEM	SNOWDEN BUILDING 820 W 4TH AVE, ANCHORAGE ASBESTOS SAMPLE LOCATIONS	EHS ALASKA INCORPORATED ENGINEERING, HEALTH & SAFETY CONSULTANTS	DRAWN: JHL CHECK: RAF	DATE: 02/17-18/22
			FILE #: 7903-SL	DWG.NO: C-5



1
C-6
SECOND FLOOR ACCT. AREA
NTS



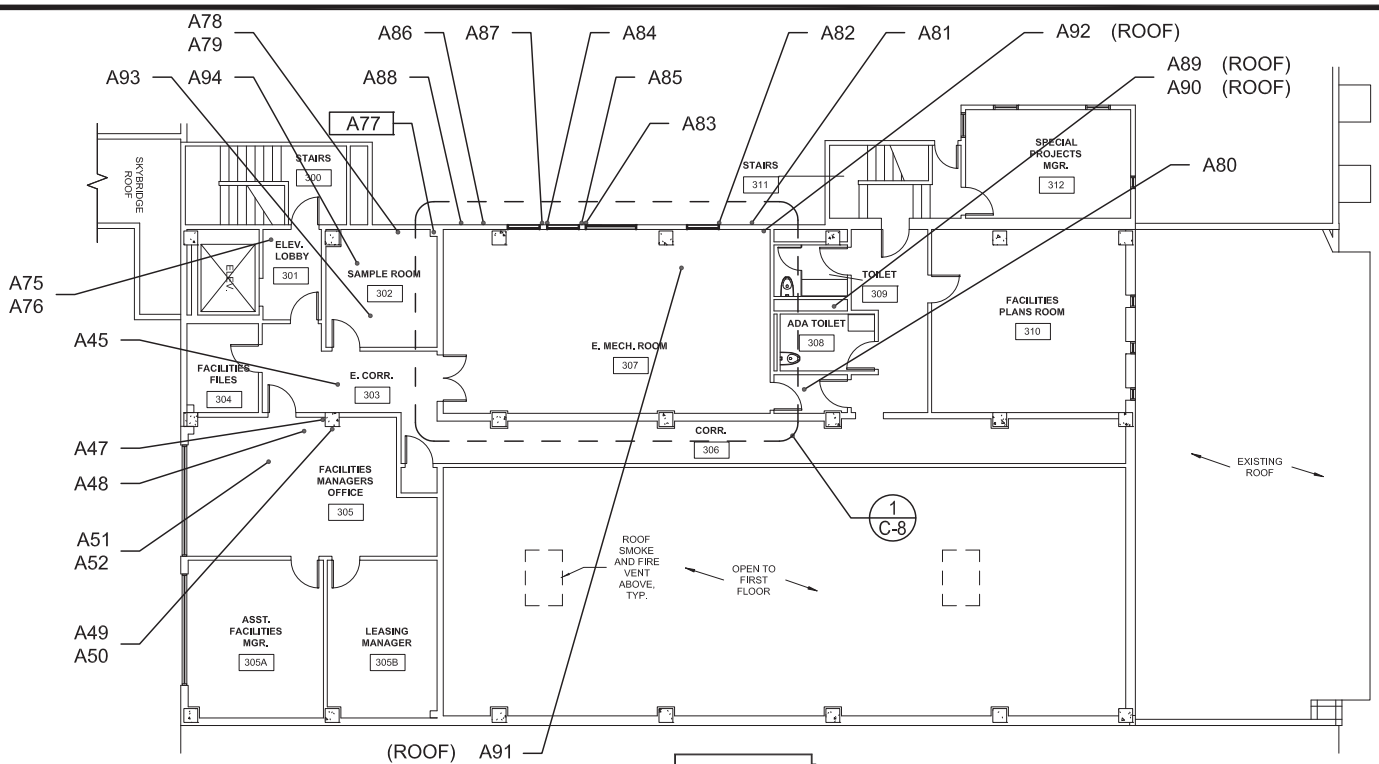
LEGEND

AXX ASBESTOS TEST LOCATION

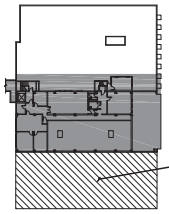
AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS

REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE 820-0222- PREFIX.

ALASKA COURT SYSTEM	SNOWDEN BUILDING 820 W 4TH AVE, ANCHORAGE ASBESTOS SAMPLE LOCATIONS	EHS ALASKA INCORPORATED ENGINEERING, HEALTH & SAFETY CONSULTANTS	DRAWN: JHL CHECK: RAF	DATE: 02/17-18/22
			FILE #: 7903-SL	DWG.NO: C-6



1 / C-7 THIRD FLOOR FACILITIES AREA
NTS



NOT IN SCOPE

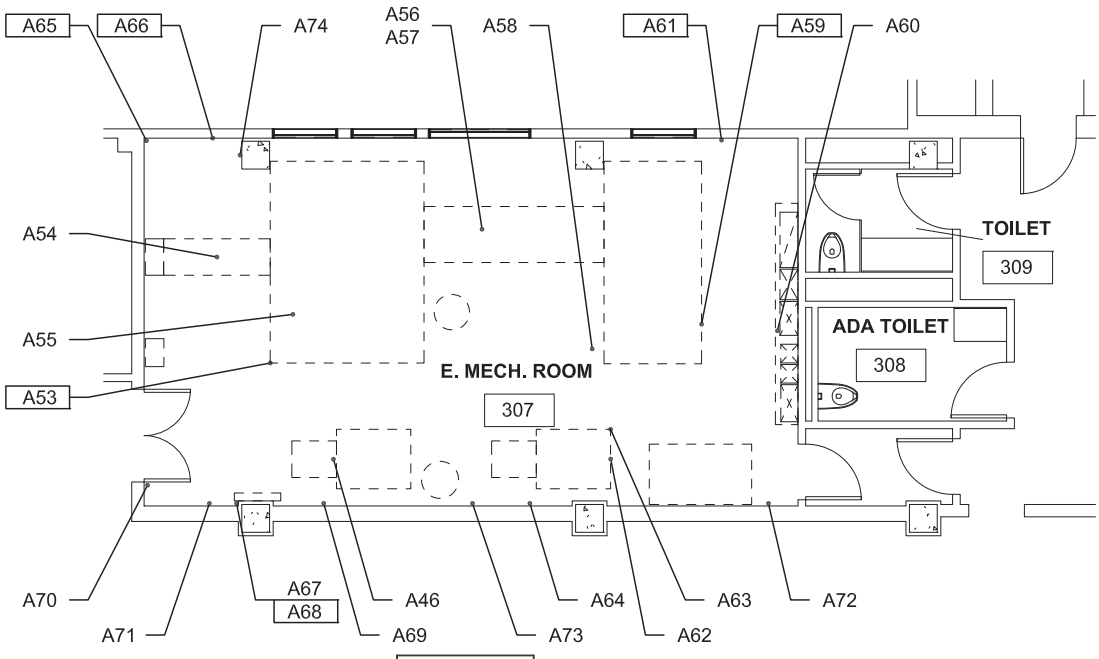
LEGEND

AXX ASBESTOS TEST LOCATION

AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS

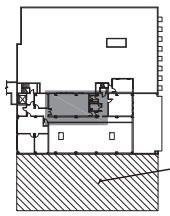
REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE 820-0222- PREFIX.

ALASKA COURT SYSTEM	SNOWDEN BUILDING 820 W 4TH AVE, ANCHORAGE ASBESTOS SAMPLE LOCATIONS	EHS ALASKA INCORPORATED ENGINEERING, HEALTH & SAFETY CONSULTANTS	DRAWN: JHL CHECK: RAF	DATE: 02/17-18/22
			FILE #: 7903-SL	DWG.NO: C-7



1
C-8

MECHANICAL ROOM 307
NTS



NOT IN SCOPE

LEGEND

AXX ASBESTOS TEST LOCATION

AXX LAB TEST RESULTS POSITIVE FOR ASBESTOS

REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL SAMPLES HAVE 820-0222- PREFIX.

ALASKA COURT SYSTEM	SNOWDEN BUILDING 820 W 4TH AVE, ANCHORAGE ASBESTOS SAMPLE LOCATIONS	EHS ALASKA INCORPORATED ENGINEERING, HEALTH & SAFETY CONSULTANTS	DRAWN: JHL CHECK: RAF	DATE: 02/17-18/22
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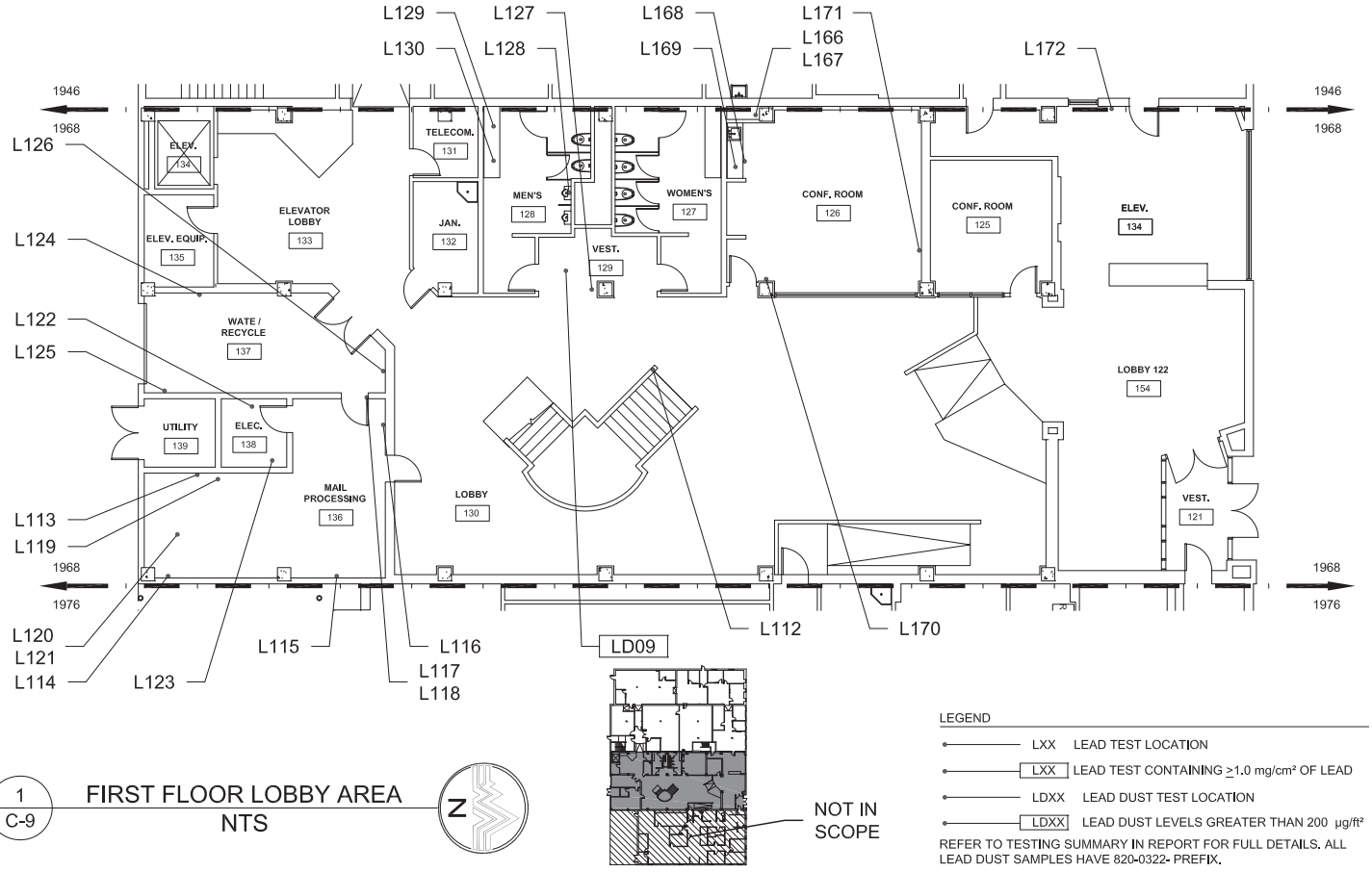

1
C-9

FIRST FLOOR LOBBY AREA
NTS

NOT IN SCOPE

LEGEND

- LXX — LEAD TEST LOCATION
- LXX — LEAD TEST CONTAINING ≥1.0 mg/cm² OF LEAD
- LDXX — LEAD DUST TEST LOCATION
- LDXX — LEAD DUST LEVELS GREATER THAN 200 µg/ft²

REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL LEAD DUST SAMPLES HAVE 820-0322- PREFIX.

ALASKA COURT SYSTEM	SNOWDEN BUILDING 820 W 4TH AVE, ANCHORAGE LEAD SAMPLE LOCATIONS	EHS ALASKA INCORPORATED ENGINEERING, HEALTH & SAFETY CONSULTANTS	DRAWN: JHL CHECK: RAF	DATE: 02/17-18/22
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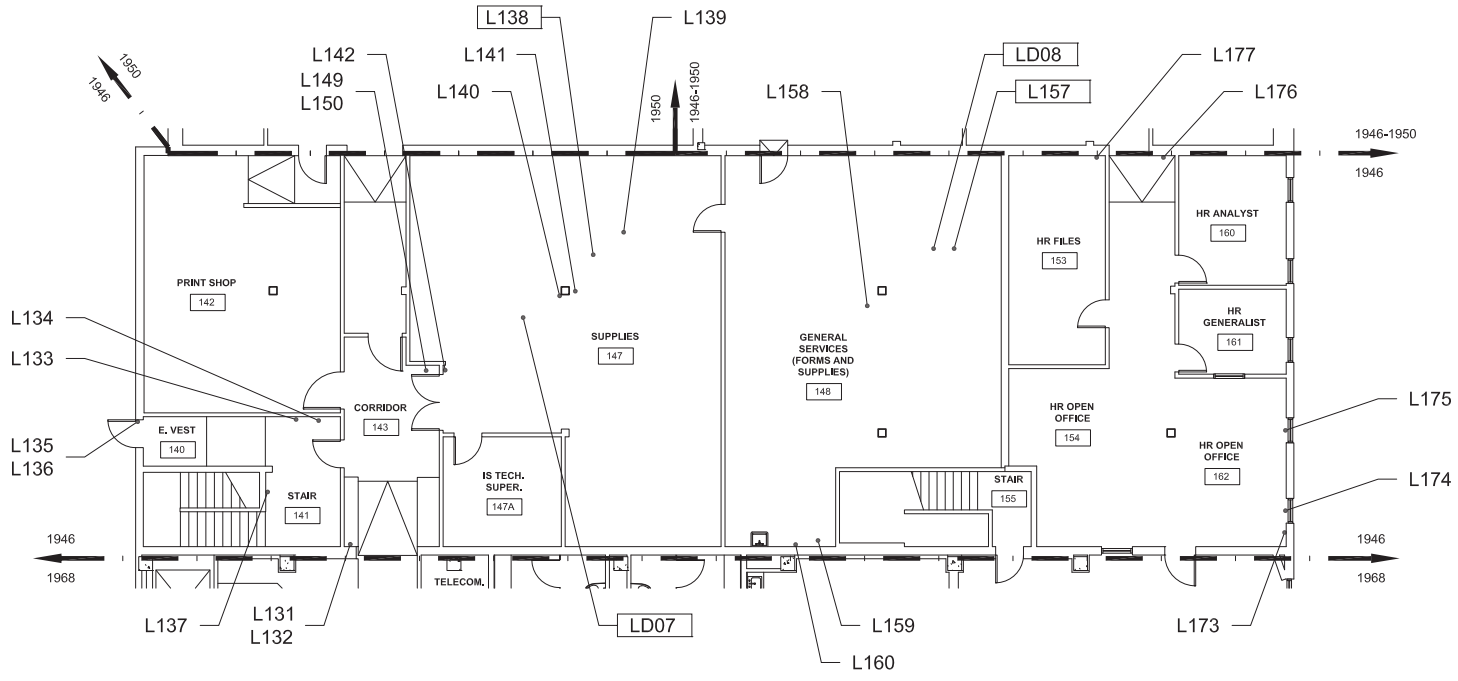
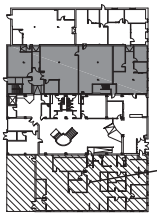




NOT IN SCOPE

1
C-10

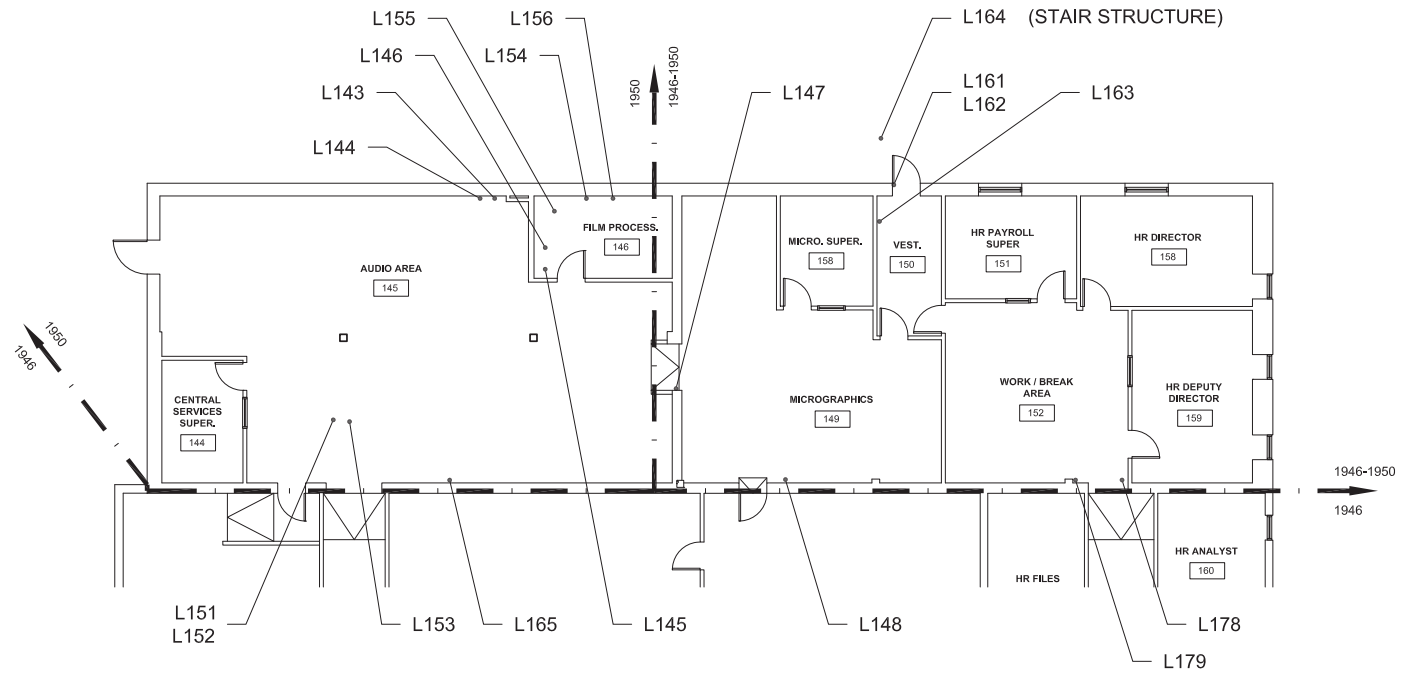
FIRST FLOOR IT/HR AREA
NTS

LEGEND

- LXX — LEAD TEST LOCATION
- LXX — LEAD TEST CONTAINING ≥1.0 mg/cm² OF LEAD
- LDXX — LEAD DUST TEST LOCATION
- LDXX — LEAD DUST LEVELS GREATER THAN 200 µg/ft²

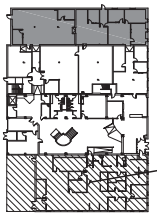
REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL LEAD DUST SAMPLES HAVE 820-0322- PREFIX.

ALASKA COURT SYSTEM	SNOWDEN BUILDING 820 W 4TH AVE, ANCHORAGE LEAD SAMPLE LOCATIONS	EHS ALASKA INCORPORATED ENGINEERING, HEALTH & SAFETY CONSULTANTS	DRAWN: JHL CHECK: RAF	DATE: 02/17-18/22
			FILE #: 7903-SL	DWG.NO: C-10



1
C-11

FIRST FLOOR SERVICES AREA
NTS



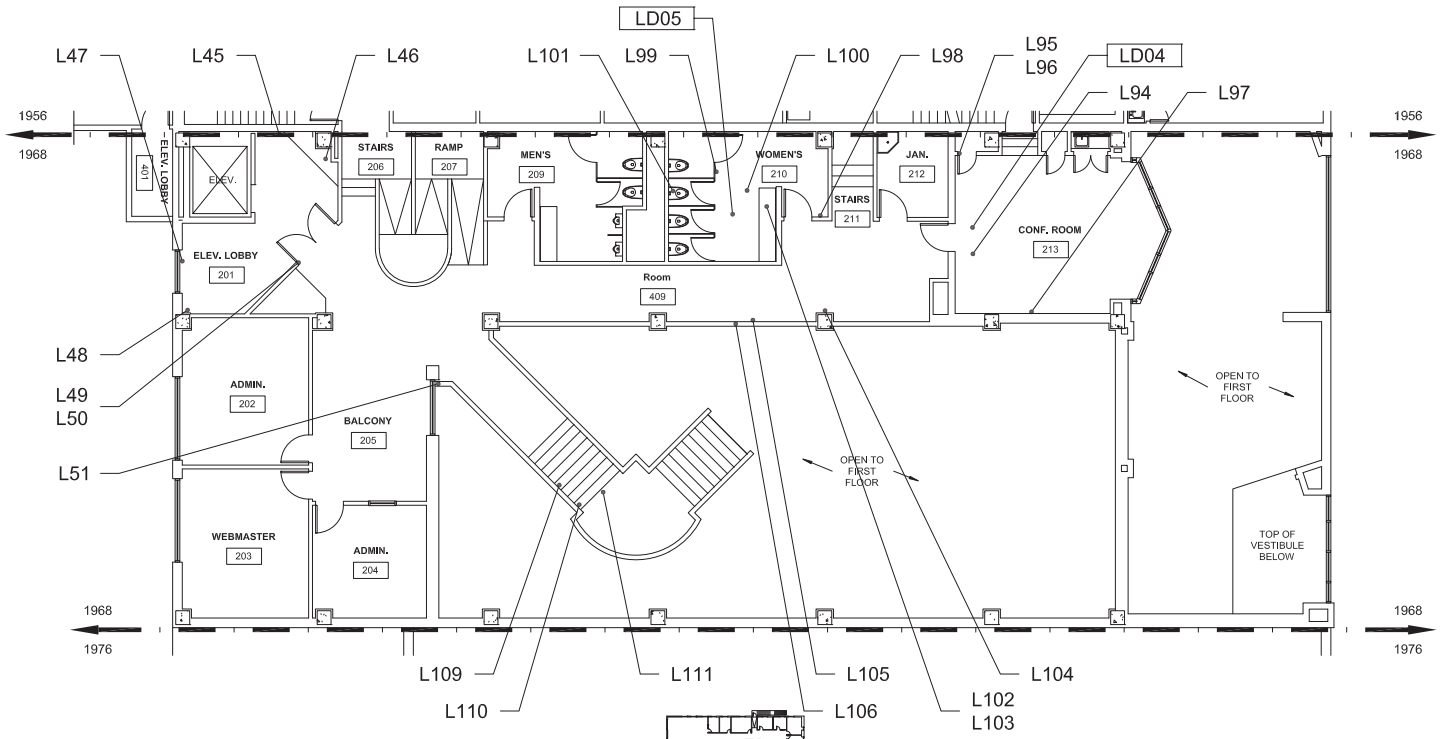
NOT IN SCOPE

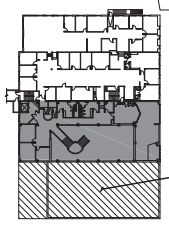
LEGEND

- LXX LEAD TEST LOCATION
- LXX LEAD TEST CONTAINING ≥1.0 mg/cm² OF LEAD
- LDXX LEAD DUST TEST LOCATION
- LDXX LEAD DUST LEVELS GREATER THAN 200 µg/ft²

REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL LEAD DUST SAMPLES HAVE 820-0322- PREFIX.

ALASKA COURT SYSTEM	SNOWDEN BUILDING 820 W 4TH AVE, ANCHORAGE LEAD SAMPLE LOCATIONS	EHS ALASKA INCORPORATED ENGINEERING, HEALTH & SAFETY CONSULTANTS	DRAWN: JHL CHECK: RAF	DATE: 02/17-18/22
			FILE #: 7903-SL	DWG.NO: C-11





NOT IN SCOPE

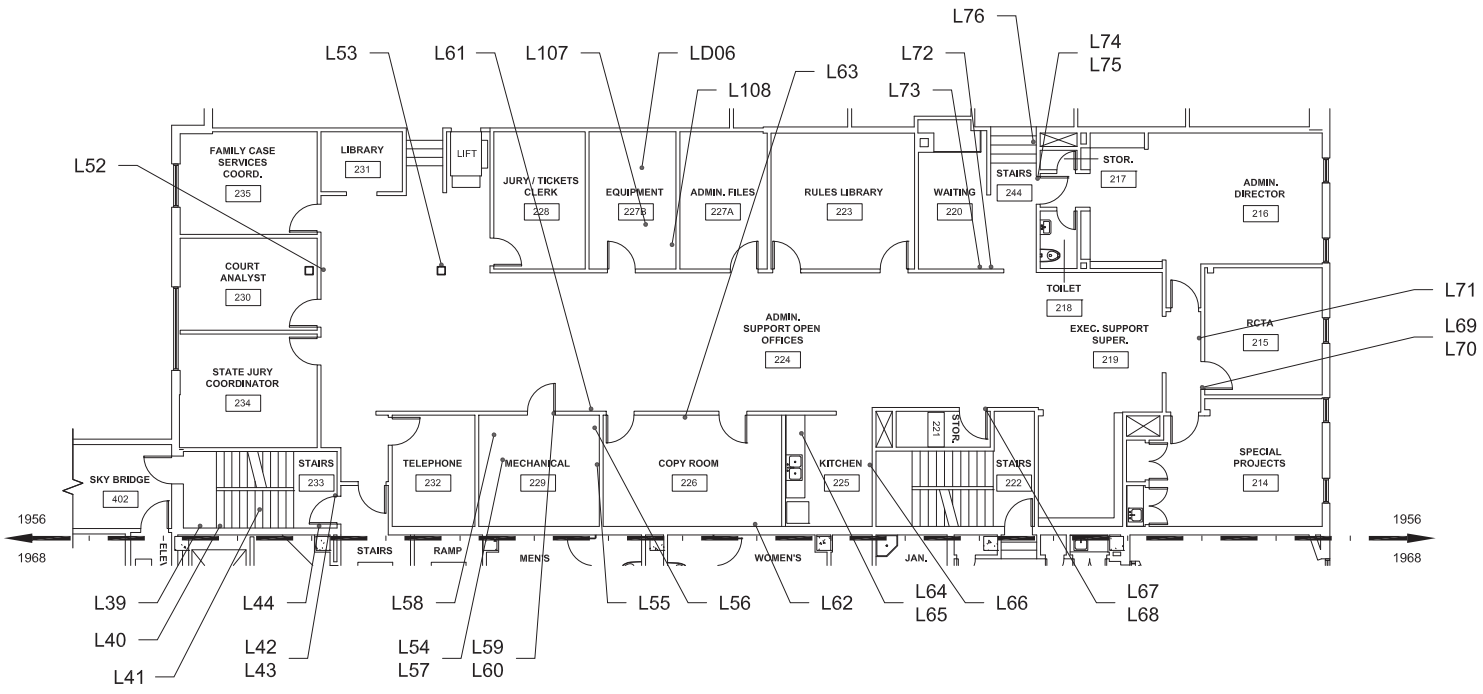
1 / C-12 SECOND FLOOR LOBBY AREA
NTS

LEGEND

- LXX LEAD TEST LOCATION
- LXX LEAD TEST CONTAINING ≥1.0 mg/cm² OF LEAD
- LDXX LEAD DUST TEST LOCATION
- LDXX LEAD DUST LEVELS GREATER THAN 200 µg/ft²

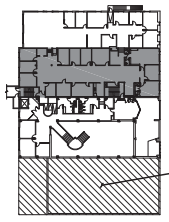
REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL LEAD DUST SAMPLES HAVE 820-0322- PREFIX.

ALASKA COURT SYSTEM	SNOWDEN BUILDING 820 W 4TH AVE, ANCHORAGE LEAD SAMPLE LOCATIONS	EHS ALASKA INCORPORATED ENGINEERING, HEALTH & SAFETY CONSULTANTS	DRAWN: JHL CHECK: RAF	DATE: 02/17-18/22
			FILE #: 7903-SL	DWG.NO: C-12



1
C-13

SECOND FLOOR ADMIN AREA
NTS

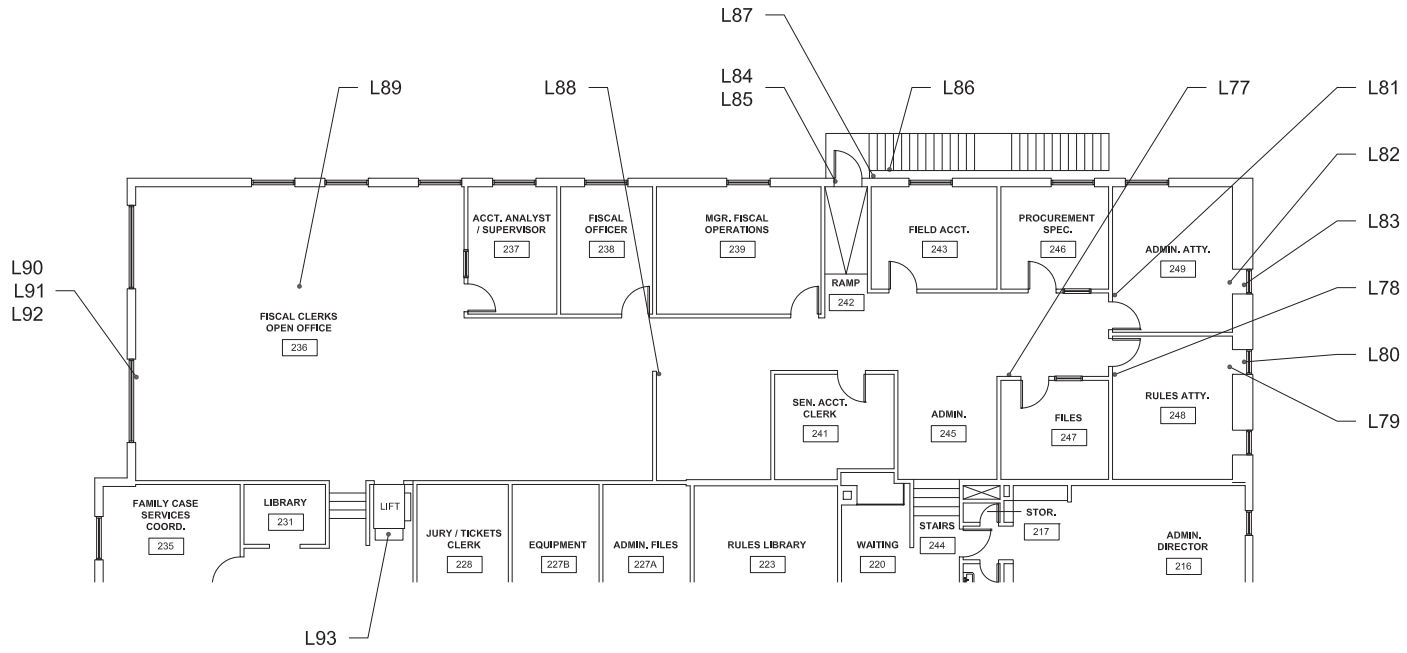


LEGEND

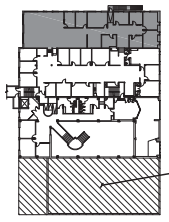
- LXX LEAD TEST LOCATION
- LXX LEAD TEST CONTAINING ≥1.0 mg/cm² OF LEAD
- LDXX LEAD DUST TEST LOCATION
- LDXX LEAD DUST LEVELS GREATER THAN 200 µg/ft²

REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL LEAD DUST SAMPLES HAVE 820-0322- PREFIX.

ALASKA COURT SYSTEM	SNOWDEN BUILDING 820 W 4TH AVE, ANCHORAGE LEAD SAMPLE LOCATIONS	EHS ALASKA INCORPORATED ENGINEERING, HEALTH & SAFETY CONSULTANTS	DRAWN: JHL CHECK: RAF	DATE: 02/17-18/22
			FILE #: 7903-SL	DWG.NO: C-13



1 / C-14 SECOND FLOOR ACCT. AREA
NTS



LEGEND

- LXX LEAD TEST LOCATION
- [LXX] LEAD TEST CONTAINING ≥1.0 mg/cm² OF LEAD
- LDXX LEAD DUST TEST LOCATION
- [LDXX] LEAD DUST LEVELS GREATER THAN 200 µg/ft²

REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL LEAD DUST SAMPLES HAVE 820-0322- PREFIX.

ALASKA COURT SYSTEM	SNOWDEN BUILDING 820 W 4TH AVE, ANCHORAGE LEAD SAMPLE LOCATIONS	EHS ALASKA INCORPORATED ENGINEERING, HEALTH & SAFETY CONSULTANTS	DRAWN: JHL CHECK: RAF	DATE: 02/17-18/22
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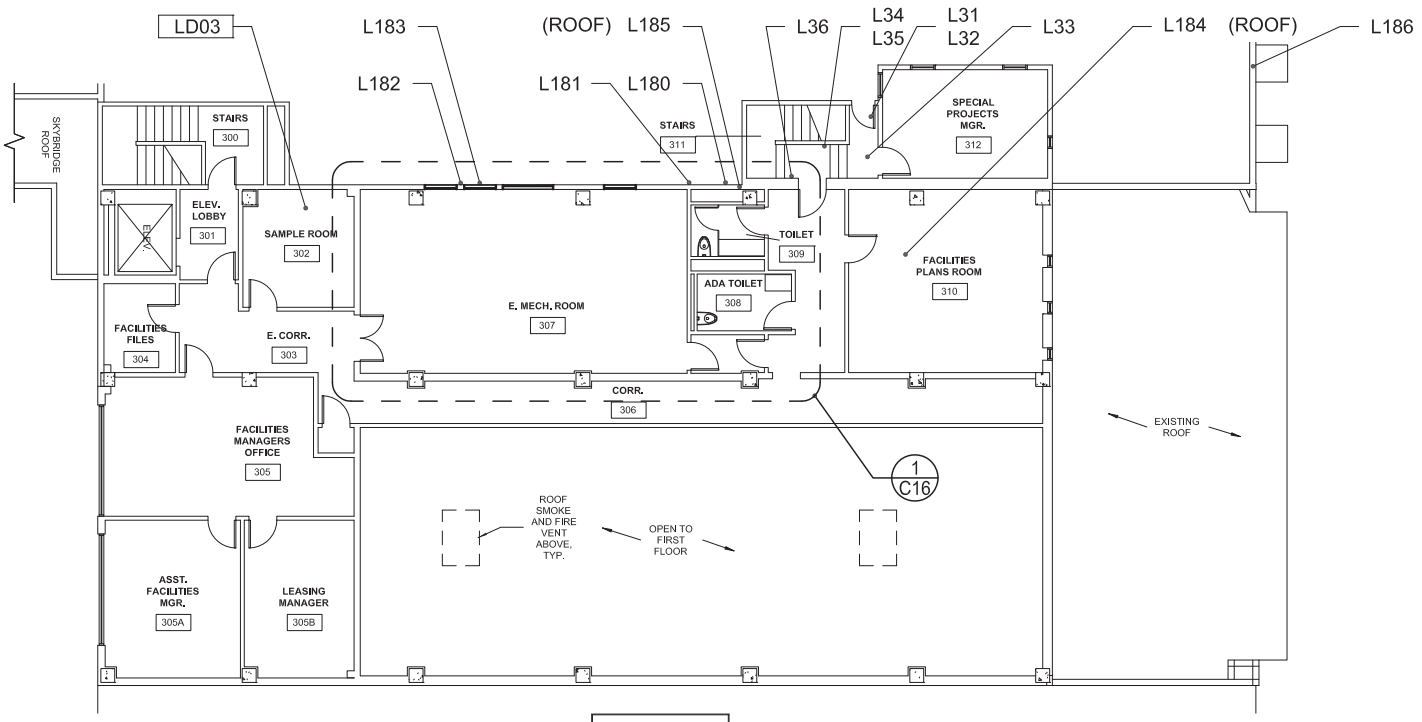
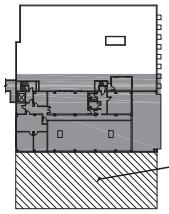


1
C-15
THIRD FLOOR FACILITIES AREA
NTS



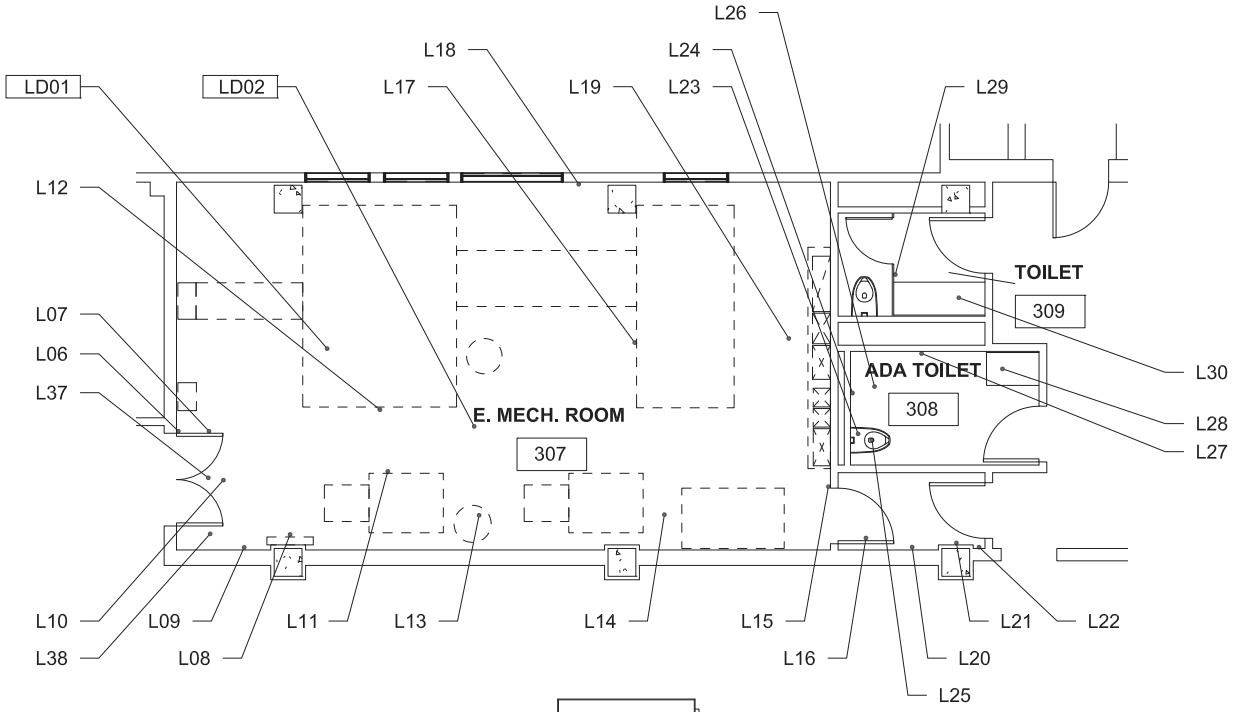
NOT IN SCOPE

LEGEND

- LXX — LEAD TEST LOCATION
- [LXX] — LEAD TEST CONTAINING ≥1.0 mg/cm² OF LEAD
- LDXX — LEAD DUST TEST LOCATION
- [LDXX] — LEAD DUST LEVELS GREATER THAN 200 µg/ft²

REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL LEAD DUST SAMPLES HAVE 820-0322- PREFIX.

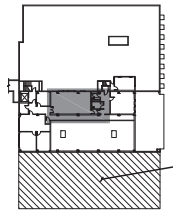
ALASKA COURT SYSTEM	SNOWDEN BUILDING 820 W 4TH AVE, ANCHORAGE LEAD SAMPLE LOCATIONS	EHS ALASKA INCORPORATED ENGINEERING, HEALTH & SAFETY CONSULTANTS	DRAWN: JHL CHECK: RAF	DATE: 02/17-18/22
			FILE #: 7903-SL	DWG.NO: C-15



1
C-16

MECHANICAL ROOM 307
NTS

N



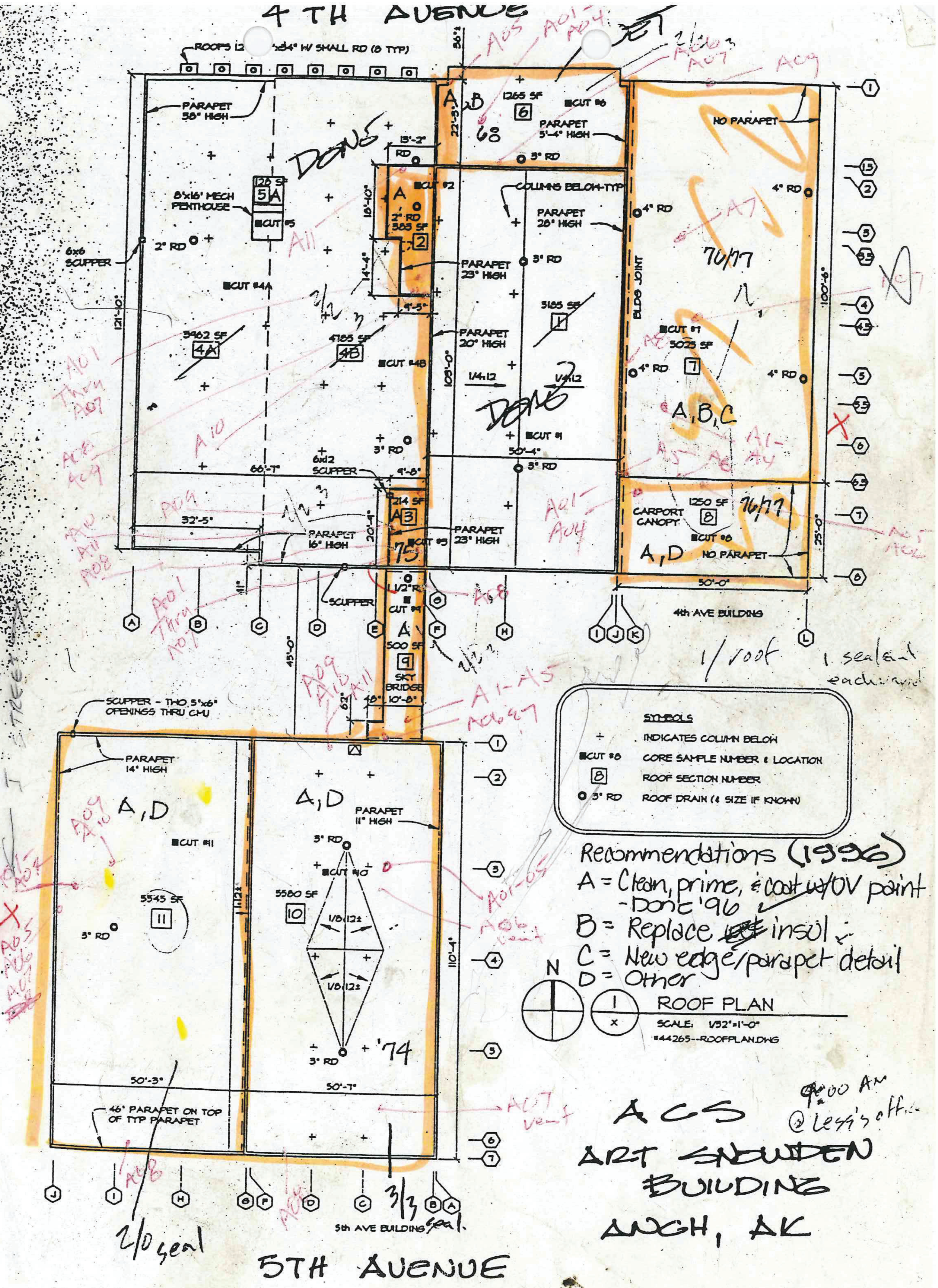
NOT IN SCOPE

LEGEND

- LXX — LEAD TEST LOCATION
- LXX — LEAD TEST CONTAINING ≥1.0 mg/cm² OF LEAD
- LDXX — LEAD DUST TEST LOCATION
- LDXX — LEAD DUST LEVELS GREATER THAN 200 µg/ft²

REFER TO TESTING SUMMARY IN REPORT FOR FULL DETAILS. ALL LEAD DUST SAMPLES HAVE 820-0322- PREFIX.

ALASKA COURT SYSTEM	SNOWDEN BUILDING 820 W 4TH AVE, ANCHORAGE LEAD SAMPLE LOCATIONS	EHS ALASKA INCORPORATED ENGINEERING, HEALTH & SAFETY CONSULTANTS	DRAWN: JHL CHECK: RAF	DATE: 02/17-18/22
			FILE #: 7903-SL	DWG.NO: C-16


4TH AVENUE
ROOFS 12" x 34" W/ SMALL RD (8 TYP)
PARAPET 58" HIGH
8'x16' MECH PENTHOUSE
6x6 SCUPPER
2" RD
CUT #4A
3462 SF 4A
4785 SF 4B
CUT #4B
CUT #5
126 SF 5A
DONE
1265 SF 6
CUT #6
PARAPET 5'-4" HIGH
3" RD
A, B
A
CUT #2
2" RD 385 SF 2
COLUMNS BELOW-TYP
PARAPET 28" HIGH
3" RD
PARAPET 23" HIGH
PARAPET 20" HIGH
5185 SF 1
1/4:12
DONE
CUT #1
50'-4"
3" RD
NO PARAPET
4" RD
BLDG JOINT
76/77
CUT #7
3025 SF 7
A, B, C
CARPORT CANOPY
1250 SF 8
CUT #8
A, D
NO PARAPET
50'-0"
4th AVE BUILDING
6x12 SCUPPER
3" RD
66'-7"
32'-5"
PARAPET 16" HIGH
214 SF A 3
PARAPET 23" HIGH
CUT #3
1 1/2" RD
CUT #9
A
500 SF 9
SKY BRIDGE 10'-8"
SCUPPER
121'-10"
108'-0"
100'-8"
SCUPPER - TWO 5"x6" OPENINGS THRU CMU
PARAPET 14" HIGH
A, D
CUT #11
5545 SF 11
3" RD
A, D
PARAPET 11" HIGH
3" RD
CUT #10
5580 SF 10
1/8:12±
3" RD
'74
50'-3"
50'-7"
46" PARAPET ON TOP OF TYP PARAPET
110'-4"
5th AVE BUILDING
5TH AVENUE
SYMBOLS
INDICATES COLUMN BELOW
CUT #8 CORE SAMPLE NUMBER & LOCATION
ROOF SECTION NUMBER
3" RD ROOF DRAIN (& SIZE IF KNOWN)
Recommendations (1996)
A = Clean, prime, & coat w/UV paint - Done '96
B = Replace insul
C = New edge/parapet detail
D = Other
N
ROOF PLAN
SCALE: 1/32"=1'-0"
#44265--ROOFPLAN.DWG
ACS
ART SNOWDEN BUILDING
ANCH, AK
9:00 AM @ Less's off..
1 roof
1 sealant each wind
2/0 seal
3/3 seal.