

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

657-21-701JB

BASIS OF DESIGN

100% Submittal



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EXECUTIVE SUMMARY

The overall intent of this project is to upgrade and improve the EHRM Infrastructure of the St. Louis VA Medical Center campus in Missouri in support of the Electronic Health Record Modernization initiative. This report shall detail the site investigation findings and further define the intended scope of work for the EHRM Infrastructure Upgrades project. There are 21 buildings throughout the campus are included in the scope of this project.

DESIGN PARAMETERS

U.S. Department of Veterans Affairs, Office of Construction & Facilities Management Design and Construction Standards, latest version.

VA Infrastructure Standards for Telecommunications Spaces v3.1, July 1, 2021

VA Telecommunications and Special Telecommunications Communications Design Manual, February 2016

VA Standards Alert 017 OIT Infrastructure Standards for Telecommunications Spaces, August 1, 2021

ANSI/TIA-526: Standard Test Procedures for Fiber Optic Systems.VA Office of Information and Technology Design Guide, February 2011

VA Security and Law Enforcement Handbook

VA HVAC Design Manual

VA Master Construction Specifications PG-18-1

VA Design & Construction Procedures PG-18-3

International Building Code (IBC) Latest Edition

International Mechanical Code (IMC) Latest Edition

International Plumbing Code (IPC) Latest Edition

International Energy Conservation Code (IECC) Latest Edition

National Fire Protection Agency (NFPA) Latest Edition

National Electric Code Latest Edition

ANSI/TIA-568-D: Generic Communications Cabling for Customer Premises.

ANSI/TIA-568-D.1: Commercial Building Communications Cabling Standards, Part 1: General Requirements.

ANSI/TIA-568-D.3: Optical Fiber Cabling Components Standard.

ANSI/TIA-569-E: Commercial Building Standard for Telecommunications Pathways and Spaces.

ANSI/TIA-606-C: Administrative Standard for Commercial Telecommunications.

ANSI/J-STD-607-C: Commercial Building Grounding and Bonding Requirements for Communications.

ASTM: American Society for Testing and Materials

BICSI CO-OSP Design Manual (current edition): Customer-Owned Outside-Plant Design Manual.

BICSI TDM Telecommunications Distribution Methods Manual (current edition).

ICEA: Insulated Cable Engineers Association

IEEE-1100-2005: Recommended Practice for Powering and Grounding Sensitive Electronic Equipment.

ISO/IEC 11801-1: International Standard on Information Technology – Generic Cabling of Customer

Premises.

Other codes and standards as indicated in the project SOW.

ARCHITECTURAL ANALYSIS

EXISTING SPACES

Existing IT closets/rooms are typically unfinished spaces (in some cases spaces with painted GWB) with plywood walls, unfinished concrete flooring or VCT, and ceilings open to structure.

Existing spaces where IT closets/rooms will be relocated to are typically finished spaces with painted GWB; flooring with carpet, VCT or vinyl sheet flooring; and have ACT. Several new TR spaces have casework and shelving which will be removed.

Existing corridors include resilient base, VCT flooring and in several spaces handrails and/or bumpers.

SPACE MODIFICATIONS

Existing finished spaces that will be repurposed for IT spaces will have walls painted white, ceilings removed, and unfinished concrete flooring with an anti-static coating applied. Wall finishes will remain and fire rated plywood will be added around the room to allow mounting of equipment and panels. All walls and plywood will be painted white, and ceilings will be left open to structure. If there are walls which do not go to structure above these walls will be extended to meet the structure above. Concrete floors that exist shall remain and any flooring that is carpet, VCT, sheet flooring, and tile shall have said surface removed, adhesive removed and left with exposed concrete flooring. Cutting and patching of walls will be made as necessary to add new conduits, data outlets, patch panels and any other modifications within the TR. Any wall penetrations in the interstitial space will be patched/sealed for space environmental control. Where existing doors/frames are to be replaced, new doors/frames shall fit within the existing conditions. Other doors/frames being replaced will have new wall infills. These walls will also be repainted to the next natural break to ensure an even paint color.

Corridors will be modified to create new access to TRs. All modified corridors will be adjusted/ modified to maintain existing appearance and all features will be terminated appropriately to ensure a clean finished look is maintained throughout the campus. After review of the corridors, the VA's request for 8' doors is not feasible. The AE has kept standard height doors of 7'-0" due to conflicting ceiling heights within corridors, among other elements. AE has found that 29 out of 34 Telecom doors are conflicted.

Building 51 room A139 is part of the Psychiatric wing of the facility and as such the A/E has coordinated with the VA to ensure all requirements are met for anti-ligature hardware and door types.

The A/E, has worked with the VA to ensure all adjacent spaces which are affected by this project are finished appropriately to include painting of walls, resilient base, and ensuring all spaces are completed by the contractor. This has been noted on architectural sheets that all finishes will match existing per the VA's request.

All TR/TE and data center spaces throughout the design area have been directly coordinated and approved through the VA. The existing Data Center in Building 1 has a limited scope due to future projects to move the core switch and primary data center to building 56.

A/E has indicated on plans to demolish existing handrails and kick-rails where needed for new door installation. A new railing and kick-rail are to be installed in Building 52 outside of room 1N82 per the VA's request. New handrail and kick-rail shall match existing conditions of Building 52. In addition, the A/E has indicated in the Architectural Sheets to seal existing Chute door in Building 52, AE will disable chute door and construct a new shaft wall for cover.

FIRE AND SMOKE RATED PARTITIONS:

All fire rated assemblies are annotated on floor plans. This includes all TN drawings as the most impactful activity is running of new fiberoptic and CAT6A within the facilities. These activities are likely to cross these assemblies and will require fire rated sleeves and other approved devices that will be essential to note for bidding and construction.

LEAD/ ASBESTOS ABATEMENT:

A hazardous materials records review was conducted for all TRs and TEs. The report and environmental drawings are provided in a separate attachment.

The site investigation was conducted by an environmental professional carrying all necessary Missouri State licensing and certifications required by law and/or by The Contract Documents and was performed in accordance with all applicable local, State and Federal regulations pertaining to asbestos and lead building inspections.

For updated investigation results please see appendix A – Environmental Investigation.

LIFE SAFETY / FIRE PROTECTION NARRATIVE

Design will follow the latest edition of the following codes: NFPA 101 Life Safety Code, VA Fire Protection Design Manual, and International Building.

New cable trays for supporting data cable will be routed as needed throughout each facility. Any cables that pass thru a rated wall will have cable trays terminate on each side of the rated wall. If not already in place, HILTI Speed Sleeves (or similarly related assembly) will be provided at rated walls to allow passage of data cables while maintaining wall rating. The AE proposes providing the locations of rated walls on the overall plans of the technology sheets since the technology sheets is where the cabling is also called out. Alternatively, the AE can add approximately 60 more sheets to show the rated wall assemblies. The A/E would like to note that all full floor plans of the facility show rated assemblies. Currently in the set these only include the TN floor plans for data drops and wiring routes.

All Telecommunication rooms with existing fire sprinklers will have existing quick response heads replaced with standard response heads in the same location. This is the A/E's interpretation of the VA fire protection manual regarding telecommunication spaces. The A/E does note that for the cost of replacing the quick response heads with standard heads the risk of unintentional activation or damage is lowered therefore reducing the potential of water intrusion into the telecommunications rooms. The A/E notes the reviewers comments. Fire sprinkler branch lines and head locations will be modified to accommodate telecom space reconfigurations. Buildings which are not currently fully sprinklered will not have fire sprinkler systems added.

Per the VA Fire Protection Design Manual all TRs will have a carbon dioxide or clean agent fire extinguisher within 75 feet of the door, exterior of the TR. The A/E is currently working with the VA to determine locations or if it is possible to modify existing cabinets to meet the requirement.

STRUCTURAL

Data racks and trays will be seismically rated. Structural details will be provided as needed to ensure adequate information is available for anchorage of equipment.

For expanded and upgraded rooms, the A/E assumes that no walls being removed are load-bearing walls. The A/E will review all walls to verify this assumption.

DESIGN LOADS

A summary of the criteria upon which the structural design is based is outlined below.

Live Loads

The floor live load is 50 psf plus the specified medical equipment.

Wind Loads

The design wind speed is 118 mph.

Snow Loads

The ground snow load at this site is 20 psf.

Seismic Loads

The Short-period Spectral Response Acceleration is 0.471g and the 1-Second Spectral Response Acceleration is 0.167g. Per ASCE 7-16, the Seismic Occupancy Category is IV. The Soil Site Class is assumed to be Class D. These parameters result in a Seismic Design Category of D for the Medical Center. The anchorage of the mechanical equipment will be checked for seismic loads, but no seismic evaluation will be made for the entire building.

Special Inspections

Special inspections, testing, and observations are as required per IBC Chapter 17 for, structural steel.

CIVIL NARRATIVE

SITE DISTRIBUTION

The existing communications infrastructure includes conduits and vaults throughout the campus that route the existing A-side fiber optic cable to each of the buildings. The intent of this project is to add new duct bank and handholes to provide B-side fiber to the buildings while minimizing impacts to the site to the maximum extent feasible.

On site investigation of existing vaults and handholes revealed some areas in need of maintenance and/or repair. Initial evaluation was limited to those structures that could be located and accessed at the time of the visit. All available as-built drawings and utility information have been reviewed to determine the most suitable fiber route. Additional local repairs and conduit replacement may be necessary during construction.

All trenching and fiber runs will be designed in compliance with VA standards including Design alert Six. Further site investigation of the trenching route and impacts if the route were performed. These investigations led to the current design. The A/E also investigated potential utility conflicts identified by the available information and observations during the site walk. The B side fiber path has been adjusted to minimize impacts to the stations ongoing infrastructure improvements.

MECHANICAL ANALYSIS

Telecom Rooms

Telecom rooms receiving new mechanical cooling will be cooled with a ductless split DX system. Ductless split DX systems require one indoor head to provide cooling to the IT room, and an outdoor condensing unit to reject the heat to the exterior ambient air. Refrigerant piping will be routed from the exterior condensing unit to the interior unit. Condensate is created when air temperatures are dropped below dew point, so condensate piping will be routed from the interior unit to the nearest indirect drain. Ductless split DX systems cannot use outside air for free cooling, but they are efficient compared to other cooling systems.

The ductless split DX systems will be tied into the campus building management system with points monitoring equipment operation, run time and space temperature.

All telecom rooms will have temperature and humidity wall sensors and a floor mounted moisture sensor that will be tied into the campus BMS. Initial temperature setpoint for all TR's is 75°F and is adjustable thru the BMS. Deadband temperature is +/- 5°F.



Telecom Enclosure

All temporary trailer buildings have had the previously designated Telecom Rooms redesignated as Telecom Enclosure. HEFP SEP Design Alert 7 gives guidance on specific requirements for Telecom Enclosures, including changing from mechanical cooling to ventilation using an exhaust transfer fan. Buildings 3T, 51T, 53T and 60T are affected by this change and now have exhaust fans for Telecom Enclosure cooling. See calculation for exhaust fan flow rate at the end of the mechanical section.

Data Center – Building 1

The existing building 1 data center is being transitioned to building 56 new data center. Building 1 data center space will be redesignated as a Telecom Room. There will be two new CERNER racks provided in the redesignated Telecom Room. The existing mechanical cooling will remain in place for this space.

Data Center – Building 56

The construction and implementation of this new data center in Building 56 is near completion under another project. No new mechanical work is anticipated for this space.

Mechanical Cooling Requirements

Mechanical cooling was evaluated for **61 Telecom rooms, in 20** different buildings throughout the St. Louis VAMC campus. Some telecom rooms are being upgraded, while other telecom rooms will be combined or relocated. Except for two spaces, telecom rooms with existing cooling were found to be inadequate per “OIT-Infrastructure Standard for Telecommunication Spaces V3.1” guidelines (July 1, 2021) therefore **55** of the 61 telecom rooms affected by this project are currently shown with new mechanical cooling.

The standard which was used for determining the cooling requirements for each telecom room was provided by VA guidance as follows.

- a. Dedicated cooling for anticipated active critical load is specified. Each network rack has 5kW of electrical capacity. Each installed enclosure requires 5kW (17,000 BTU/h) of cooling capacity to be available, but in aggregate, 5kW per enclosure is not required. Design heat rejection capacity in these telecommunications spaces as follows:
 - i. 1 rack TR = 5kW (e.g. single 5kW cooling unit).
 - ii. 2 rack TR = 7kW (e.g. 3.5kW x2 cooling units).
 - iii. 3 rack TR = 8.5 kW (e.g. 3.5kW + 2.5kW x2 cooling units).
 - iv. 4 rack TR =10kW (e.g. 2.5kW x4 or 5kW x2 cooling units).
- b. Other designs meeting these maximum expected aggregated load levels are acceptable. Multiple smaller units will assist in avoiding equipment freeze-up in some types of equipment.

Telecom Enclosures for the trailer buildings (3T, 51T, 53T and 60T) do not have space to install a full-size rack. These buildings will each be equipped with a single wall mounted rack which is estimated at 2.5KW heat rejection load. Telecom Enclosures will be cooled/ventilated with an exhaust fan, transferring air from adjacent conditioned space into the TE room. See calculation for exhaust fan flow rate at the end of the mechanical section.

The recommendation of using multiple smaller cooling units in each telecom room was considered, however cooling performance at low ambient operation for the smaller units is limited. Further, the first costs of multiple smaller cooling units are nearly 60% higher compared to a single cooling unit per telecom room. Added onto the increased first cost would be nearly double the maintenance and repair costs over the life of the systems. The AE's current basis of design is to use a single cooling system per telecom room.

See ductless split system equipment schedule on mechanical drawing sheet M-502 for detailed information of the equipment sizing.

See Appendix B for Telecom Enclosure exhaust fan airflow calculation.

INFECTION CONTROL RISK ASSESSMENT NARRATIVE

ICRA design have been included in each TR's demolition plan. As many TRs as possible have an ante room to contain construction activities, these rooms are non fire rated (where sprinklers exist), hard stand rooms. Some locations will not allow for the construction of a hard stand anteroom due to corridor width the following rooms had conflict with ante room placement: Building 2; Room 111 and Room 308, Building 3; Room B025, Building 18; Room 119, 213 and 312, Building 51; Room 1A102, and Building 58; Room 104. ICRA barrier details are provided; all information has been implemented within 01 35 26 - Safety Requirements specifications. Coordinate with Infectious Prevention Staff and COR. At this time the construction appears to be Type B, medium or high risk, which places the overall construction as Type II or higher construction based on patient risk factors of the facility.

The A/E coordinated with the VA on ICRA requirements. Coordination included the additional notes for coordination with ICRA plans prior to construction start, ICRA barriers in areas that are fully sprinklered, and ICRA level by TR to ensure appropriate measures are taken.

Building	Floor	ICRA Level	Building	Floor	ICRA Level
1	BLDG 01- Basement	II	51	BLDG 51- Basement	II
	BLDG 01- First floor	II		BLDG 51- First Floor	III
	BLDG 01- Second floor	III	51T	BLDG 51T- First Floor	II
	BLDG 01- Third floor	III	52	BLDG 52- Basement	II
2	BLDG 02- Basement	II		BLDG 52- First Floor	III
	BLDG 02-First Floor	II		BLDG 52- Second Floor	II
	BLDG 02-Second Floor	II	53	BLDG 53- Basement	II
	BLDG 02-Third Floor	II		BLDG 53- First Floor	III
3	BLDG 03- Basement	II		BLDG 53- Second Floor	III
	BLDG 03- First Floor	III	53T	BLDG 53T- First Floor	II
	BLDG 03- Second Floor	III	55	BLDG 55- First Floor	III
3T	BLDG 03T- First Floor	II		BLDG 55- Second Floor	III
18	BLDG 18- Basement	II		BLDG 55- Third Floor	III
	BLDG 18- First Floor	II	56	BLDG 56- Basement	II
	BLDG 18- Second Floor	II		BLDG 56- First Floor	II
	BLDG 18- Third Floor	II		BLDG 56- Second Floor	II
23	BLDG 23- Basement	II		BLDG 56- Third Floor	II
	BLDG 23- First Floor	II	57	BLDG 57- First Floor	II
24	BLDG 24- Basement	III	58	BLDG 58- First Floor	II
	BLDG 24- First Floor	II	60	BLDG 60- First Floor	II
	BLDG 24- Second Floor	II	60T	BLDG 60T- First Floor	II
25	BLDG 25- First Floor	II	75	BLDG 75- First Floor	II
	BLDG 25- Second Floor	II			
	BLDG 25- Third Floor	II			

ELECTRICAL ANALYSIS

NARRATIVE

This project shall upgrade the existing IT infrastructure and equipment to comply with the new VA Electronic Health Record Modernization (EHRM) system requirements. The design will comply with applicable VA design guides.

Selected telecommunications rooms (TRs) will be expanded, renovated, or relocated to meet VA Infrastructure Standards for Telecommunications Spaces (Version 3.1, July 1, 2021). The VA has provided recommended actions for each TR (expansion, renovation, or relocation) as indicated in the SOW and associated Readiness Assessment; further general requirements for each TR have been provided in the SOW and associated Readiness Assessment (power, ups, cabling, etc.). The project scope includes the following locations: Buildings 1, 2, 3, 3T, 18, 23, 24, 25, 51, 51T, 52, 53, 53T, 54, 55, 56, 57, 58, 59, 60, 60T, 75 and site.

- Design:
 - o All existing panelboards and/or switchboards that are to be reused and that are being provided additional loading will be required to have 30-day demand power monitoring unless a local demand power meter is available.
 - o All data rooms will be revised to meet proper grounding and bonding installations per VA telecom standards and NEC.
 - o Telecommunication rack power connections (source A and B) will be provided as required.
- Life cycle analysis for electrical systems:
 - o All existing electrical equipment that requires a life cycle analysis will be evaluated. Where it is determined that the existing equipment is past its time of use or shows signs of possible future failure due to wear and tear, the equipment will be replaced as required.

LOCATION AND SIZE OF:

Currently, each building and floor are being noted and analyzed for the existing conditions and the required improvements for each of the following items:

- Electrical equipment
- Electric closets
- Telephone closets
- Signal closets
- Electrical distribution equipment

EXISTING EMERGENCY GENERATOR SYSTEM CAPACITY:

The following displays the current loading of each emergency generator system per building. All data was provided from VA provided Monthly Generator Reports:

Generator Load Schedule			
Generator	Generator Rating (kW)	Peak Demand (kW)	Available Capacity
BLDG 1	400	157.8	242.2
BLDG 51	350	161	189
BLDG 52	250	132.5	117.5
BLDG 53	300	143	157
BLDG 55	500	43	457
BLDG 56	800	100	700
BLDG 60	300	143	157
BLDG 75 (GEN 1)	2500	1842	658
BLDG 75 (GEN 2)	2500	1842	658
BLDG 75 (GEN 3)	2500	1842	658

LIST OF SPECIALTY AREAS:

No specialty areas are included in the subject project at this time.

METHOD OF SHORT-CIRCUIT CALCULATIONS:

Short-circuit calculations will be based off of infinite bus calculations. Where appropriate, short-circuit values will be included on one-line diagrams and will be coordinated with all electrical distribution equipment as required.

METHOD OF VOLTAGE DROP AND DEMAND CALCULATIONS:

Voltage drops and power demand calculations will be conducted per the NEC. Calculators and panel schedules will provide NEC based calculations for both voltage drop analysis and power demand calculations. This information will be used to size electrical distribution equipment including, but not limited to, cables/conductors, raceways, and panelboards.

UTILITY COMPANY CORRESPONDENCE:

Not required for the subject project.

SMOKE PARTITIONS AND FIRE ALARM ZONES:

Smoke partitions and fire alarm zones and devices will be coordinated with during the TR upgrades/relocations as required.

SCOPE OF WORK BY TASK:

Each Telecommunications Room requires both source A and source B power. Providing source A and source B power provides increased power liability and enables no downtime when maintenance is required on one of the sourcing circuits. Preferably, both source A and B should have backup generator power; however, this is not possible or feasible for all installations.

New, Relocated, or Expanded TRs:

- In general, for all new and most relocated or expanded TRs, A/E is proposing to provide each of the TRs with (2) new panelboards, (1) for source A and (1) for source B power. Currently, the A/E is proposing to provide power to each new panelboard via the main distribution

equipment at each building. Where existing gear has the circuit breaker capacity to provide new feeder circuit breakers for each new panelboard, it will be utilized as such. Otherwise, (1) feeder breaker will be added to the existing distribution equipment to power a new distribution panel; this new distribution panel will be specified to provide enough feeder circuit breakers to provide circuits to all new source A and source B panels in that building.

- In some cases, the above narrative will not work due to the buildings power topology and/or equipment capacity. Due to this fact, different solutions may be provided as shown in the one-line diagram drawings.
- In these cases, a full building shutdown may be required. Currently, the buildings that will require a full shut down are as follows: BLDG 2, 3, 24.
 - **BLDG 2 and 3:** Both buildings currently have main distribution equipment at least 10 years past their lifetime; yielding a non-reliable, hard to maintain (parts, maintenance), and unsafe system. These pieces of equipment will be demolished and replaced with modern equipment with additional circuit capacity, allowing for future expansion.
 - **BLDG 24** currently is utilizing an exterior mounted wireway with fusible disconnects to the building's loads as needed. Because no main circuit breaker exists for the building, adding an additional circuit to the wireway would not adhere to the new NEC 2020 code (a main disconnect is required for a building service). Therefore, we are demolishing and replacing the wireway and fusible disconnects with a new exterior mounted panelboard with main circuit breaker; this panelboard will be sized to provide the power required for the existing, new, and future loads.
- Notes 4 and 5 in Figure 1 below indicate the source A and B panelboards. Each new panelboard would be 120/208V, 3-Phase, 4-wire.

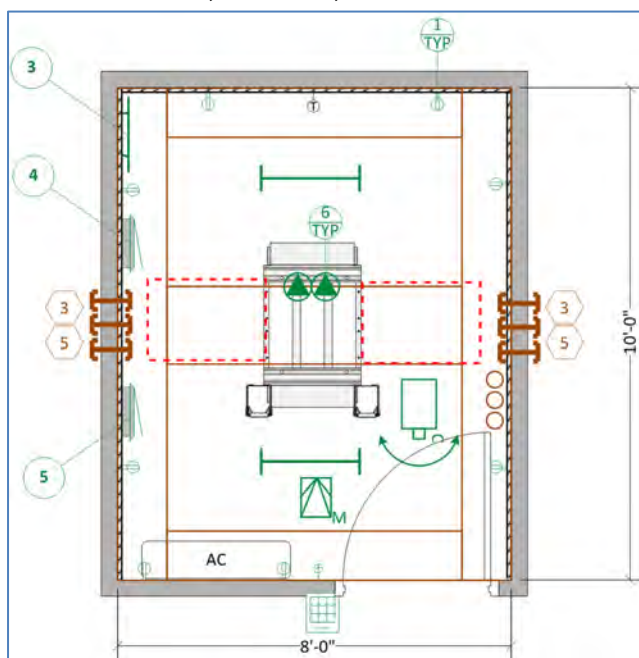


Figure 1: Telecommunications Room – (1) Rack Layout (OIT Design Guide Template, V3.1)

- All panelboards will be provided with power metering equipment.
- The schematic in Figure 2 below shows how source A and B power will be distributed to the rack. Each source (or panelboard) provides power to one of the 20A receptacles which in turn provides power to the rack equipment.
- TR rack mounted UPS systems shall be 5kW, 3-phase with L21-20 input/output connections as shown below in figure 2.

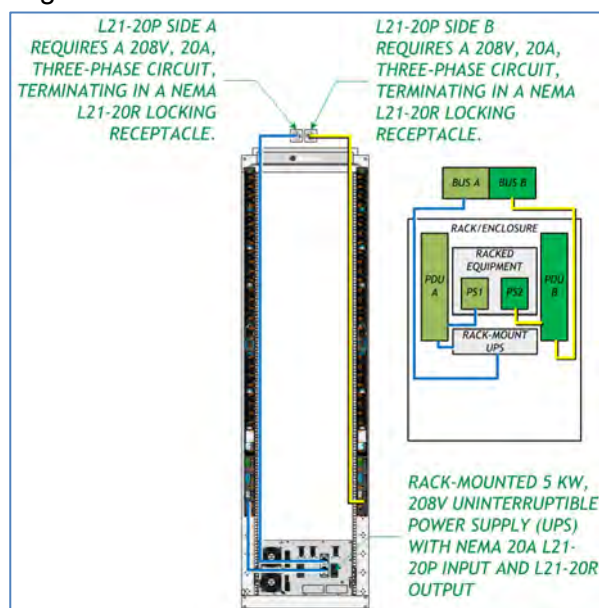


Figure 2: TR Single Rack Elevation and Power Schematic (OIT Design Guide Template, V3.1)

Where TRs will not physically accommodate or require a full data rack from a data standpoint, a Telecommunications Enclosure (TE) will be provided. Each TE will be designed to the below OIT TE design template as shown in figures 3 and 4:

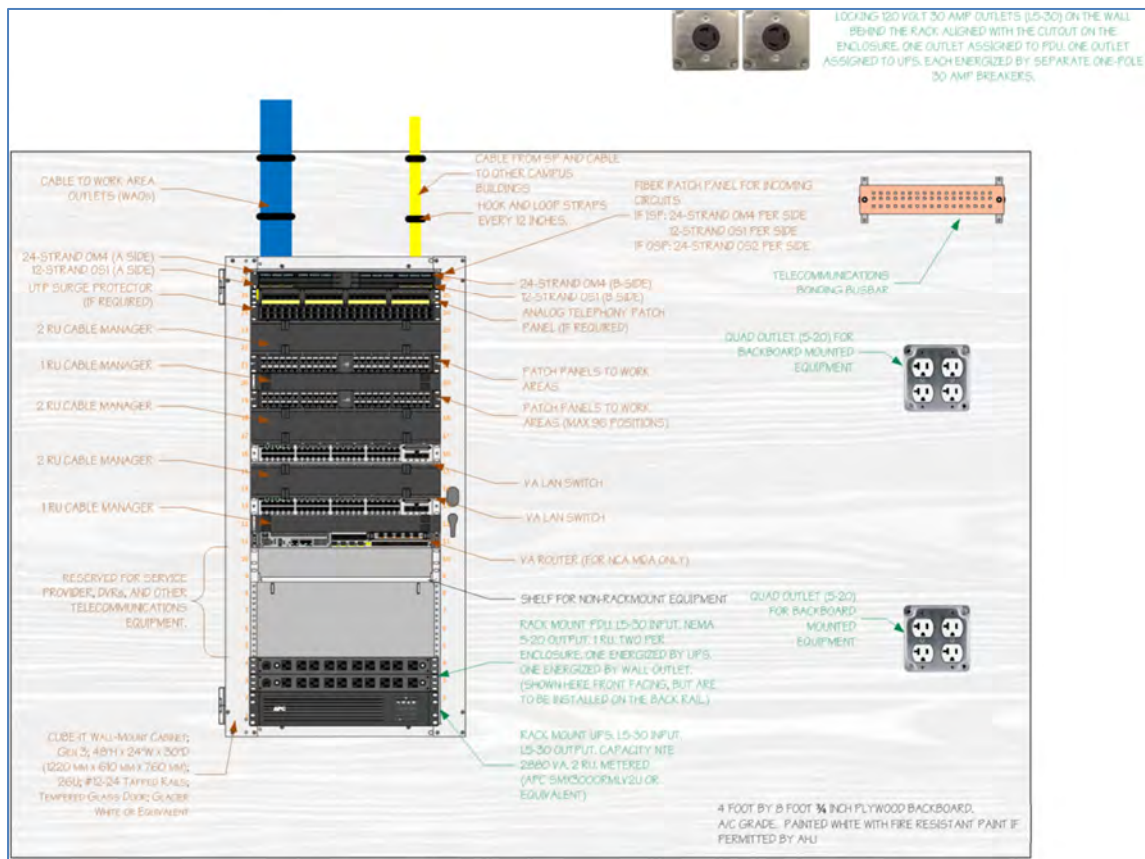


Figure 3: TE Installation Elevation (OIT Design Guide Template)

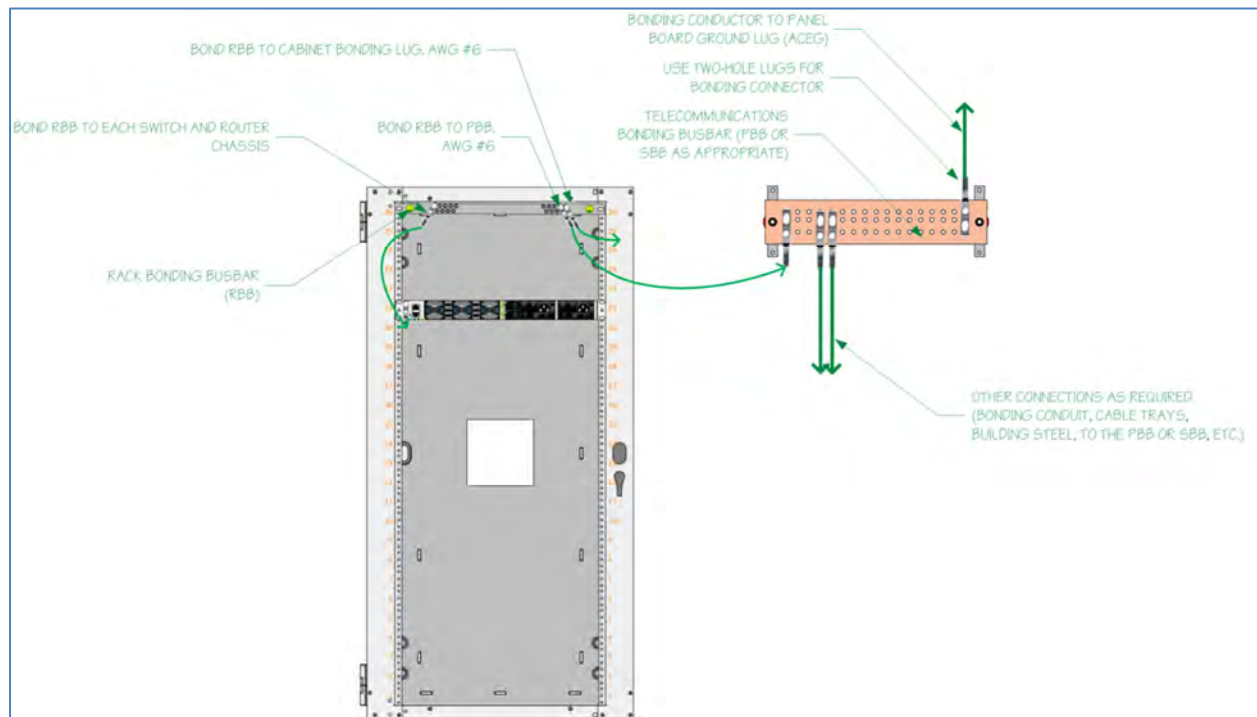


Figure 4: TE Grounding Elevation (OIT Design Guide Template)

All other TRs:

- All other existing or relocated/expanded TRs that are not being provided with new panels will utilize the local existing panels as needed for the new TR equipment installation.
- All new panelboards will be provided with power metering equipment.

The following indicates the power and lighting requirements laid out by VA standards that we are utilizing for our basis of design.

- Power Equipment:
 - o Source A and Source B panelboards.
 - o Source A and Source B twist-lock receptacles and/or 60A power junction box(es).
 - o Two duplex receptacles on each wall.
 - o Secondary bonding busbar.
- Lighting:
 - o LED linear lighting (50 Foot-candles, minimum average)
 - o Motion Sensor light switch.

All existing panelboards being used to power additional loads will be required to be load monitored for peak demand power for 30-days per NEC 220.87, unless an existing demand power data currently exists for said panel. The following power distribution equipment will have added TR loads and are set to be metered to verify power capacity:

METERING AND LOAD INFORMATION SCHEDULE															
BUILDING	EQUIPMENT	VOLTAGE (V)	PHASE	AMP RATING (A)	METERING DATE	METERED DEMAND (kW)	PF ADJUST	SEASONAL ADJUSTMENT FACTOR	NEC DEMAND FACTOR	DEMAND Kva (w/ NEC FACTOR)	ADDED LOAD (kVA)	TOTAL DEMAND LOAD (kVA)	TOTAL LOAD <= 80% OF EQUIPMENT RATING	NOTES	
1	MSB-01	208	3	2500	SEE NOTES	261	0.9	1	1.25	362.5	58.5	421.0	YES	1	
	CDP	208	3	600	-	TBD	0.9	1	1.25	-	-	-	-	-	
2	MDP-R	208	3	800	-	TBD	0.9	1	1.25	-	-	-	-	-	
3	MLP-L	208	3	1000	-	TBD	0.9	1	1.25	-	-	-	-	-	
3T	3T-1	208	1	400	-	TBD	0.9	1	1.25	-	-	-	-	-	
18	DP-18-1	208	3	1200	-	TBD	0.9	1	1.25	-	-	-	-	-	
23	MSB-23	208	3	1600	-	TBD	0.9	1	1.25	-	-	-	-	-	
24	XFMR "24-XF2-BLDG 24"	208	3	1600	-	TBD	0.9	1	1.25	-	-	-	-	-	
25		25DP	208	3	600	-	TBD	0.9	1	1.25	-	-	-	-	-
		ATS1-EDP25	208	3	225	-	TBD	0.9	1	1.25	-	-	-	-	-
51	DP-51	208	3	800	-	TBD	0.9	1	1.25	-	-	-	-	-	
	51-CB51	208	3	800	SEE NOTES	88	0.9	1	1.25	122.2	28.8	151.1	YES	1	
51T	BS1T-MAIN	208	1	400	-	TBD	0.9	1	1.25	-	-	-	-	-	
52	ATSS2-DP52CR	208	3	600	-	TBD	0.9	1	1.25	-	-	-	-	-	
	5B-91	208	3	1600	SEE NOTES	104	0.9	1	1.25	144.4	66.2	210.7	YES	1	
53	53-SWB0	208	3	800	-	TBD	0.9	1	1.25	-	-	-	-	-	
	MDP-53	208	3	2000	SEE NOTES	202	0.9	1	1.25	280.6	33.1	313.7	YES	1	
53T	NSR251	208	1	400	-	TBD	0.9	1	1.25	-	-	-	-	-	
55	DP/55-C1	480	3	400	SEE NOTES	37	0.9	1	1.25	51.4	48.7	100.1	YES	1	
	DP/55-1N3	208	3	500	-	TBD	0.9	1	1.25	-	-	-	-	-	
56	DP/56C	208	3	1600	-	TBD	0.9	1	1.25	-	-	-	-	-	
	MSB/56-1	480	3	2500	SEE NOTES	219.4	0.9	1	1.25	304.7	28.8	333.6	YES	1	
57	57-1N4	208	3	225	-	TBD	0.9	1	1.25	-	-	-	-	-	
	57-1N6	208	3	225	-	TBD	0.9	1	1.25	-	-	-	-	-	
	DP/57R	480	3	800	-	TBD	0.9	1	1.25	-	-	-	-	-	
58	MDP-58	208	3	1000	-	TBD	0.9	1	1.25	-	-	-	-	-	
60	MDP-60	208	3	1600	-	TBD	0.9	1	1.25	-	-	-	-	-	
	DP-60EM	208	3	1200	-	TBD	0.9	1	1.25	-	-	-	-	-	
60T	MDP-60T	208	1	400	-	TBD	0.9	1	1.25	-	-	-	-	-	
75	XFMR TR/75N	208	3	300	-	TBD	0.9	1	1.25	-	-	-	-	-	
NOTES:															
1. VA-PROVIDED METERING DATA. DATA RECORDED WITHIN LAST 12 MONTHS.															

NOTES:

1. VA-PROVIDED METERING DATA. DATA RECORDED WITHIN LAST 12 MONTHS.

IT SYSTEMS ANALYSIS

NARRATIVE:

This project shall upgrade the existing IT infrastructure and equipment to comply with the new VA Electronic Health Record Modernization (EHRM) system requirements. The design will comply with applicable VA design guides.

Selected telecommunications rooms (TRs) will be expanded, renovated, or relocated to meet VA Infrastructure Standards for Telecommunications Spaces (Version 3.1, July 1, 2021). The VA has provided recommended actions for each TR (expansion, renovation, or relocation) as indicated in the SOW and associated Readiness Assessment; further general requirements for each TR have been provided in the SOW and associated Readiness Assessment (power, UPS, cabling, etc.). The project scope includes the following locations: Buildings 1, 2, 3, 3T, 18, 23, 24, 25, 51, 51T, 52, 53, 53T, 54, 55, 56, 57, 58, 59, 60, 60T, 75 and site.

Design of new Telecommunications rooms will include equipment racks, patch panels, grounding, and new cabling as required. Telecommunications cabling rated Category 6 and below will be replaced with Category 6A cabling. Locations upgraded to Category 6A cabling will require a conduit size of 1-inch minimum to accommodate the larger cable diameter; this is necessary to comply with conduit fill ratios. Existing conduit may be re-used but conduit and cable tray fill will be verified prior to reuse; if required, existing raceways will be demolished and new raceways will be provided for increased cable size.

The design will establish construction phasing requirements to ensure that critical systems will remain operational until they can be cut over to the new infrastructure.

SITE DISTRIBUTION/ FIBER (OSP):

Design Intent

The existing communications infrastructure includes conduits and vaults throughout the campus that route the existing communication cables to each of the buildings. For purposes of this project and within the OSP, we are naming this existing infrastructure Side-A. The intent of this project is to utilize the existing conduit, vaults, and handholes to the maximum extent feasible. Re-using the existing facilities will eliminate impacts and expenses associated with trenching and restoration throughout the site. However, the redundant optical fiber pathways; termed Side-B, are required to maintain a distance of 75' from the existing Side-A.

The new Outside Plant (OSP) fiber distribution, Side-B, will be comprised of OS2 single mode (SM) air blown fiber (ABF)-optic cables; such that the goal of each building having both Side-A and a Side-B diversified paths for redundancy.

This project will also replace Side A with like-fiberoptic cable once service is operational from the Side B provider.

Entrance Facility/ Entrance Room

The entrance room is the point of entrance to a building where both public and private network service cables and equipment (including wireless) interface with the building cabling system. There is one entrance room on campus and is the same location of the ISP providers point of debarkation. Entrance rooms will have similar features as Telecommunications Rooms (TRs) including backboard, racks, power, and cable management.

- All projects involving new or renovated entrance rooms shall have power, cooling, and room layouts consistent with VA and industry standards.
- Entrance rooms shall be a minimum of 80 ft² for a one-rack entrance room and an additional 20 ft² for each additional rack required.
- There shall be a minimum of one entrance room per building. Two entrance rooms are required for the diverse providers for CDCs and CSCs with a minimum separation of 66 ft between entrance points.
- Entrance points must be within 50 ft of the OSP entrance point duct bank to allow for transition from OSP to ISP cabling.
- Health care facilities must have two entrance rooms. Health care facility entrance rooms shall be a minimum of 170 ft².
- A TR or equipment room (computer room) may serve as an entrance room.
- When more than one access provider serves a building, develop diverse building entrance routes so in the event of a catastrophic failure along one entrance route, the other will maintain the building's telecommunications service.

Outside Plant Topology

After the VA's review of the three options provided by the A/E for the outside plant topology the VA has selected option 1 to proceed with the design. A summary of Option 1 is found below.

SIDE-B New Redundant Fiber Loop: Underground, a minimum two (2) four-inch (4") conduits for the main runs, and a single 4" conduit for lateral to-building runs, encased in concrete, surface-accessible underground spaces (maintenance holes and/or pull boxes), and a minimum of 12 strands of OS2 Single Mode Fiber Optic cabling terminated inside each building TR, homerun to Building 56 with an additional 288 strands of OS2 connecting Building 56 to Building 1. Using an Air-blown fiber solution, most buildings will have a Tube Distribution Unit (TDU) installed where-by depending on the number of TRs, micro-tubes, wrapped into an indoor/outdoor bundle, will enter the TDU. Within the TDU, the tubes will be broken down and connected to jumper tubes and then from the TDU, each TR will receive a minimum of a two-tube bundle, containing a minimum of 12-strands of OS2 fiber. While the **micro-tubes**, not optical fiber, will be broken and spliced in order to be reduced in quantity to then travel to the TRs, the optical fiber itself will not be spliced in the plant anywhere along the line. By way of example, if a building has two TRs, then from the Main Data Center, a high-pair count tube (perhaps 19) used to feed multiple buildings will run underground to a hand-hole. Within that hand-hole, that 19-tube bundle will be opened, and two individual tubes will travel from the hand-hole toward the subject building. The other 17-tubes will continue on the outside plant pathway within the four-inch conduit while the two tubes will turn into the subject building, enter a NEMA-4X wall mounted (exterior) enclosure, and turn via galvanized conduit into the building. Once inside, the indoor/outdoor tube cable will enter a TDU.

From the TDU, the four tubes will be broken down into two-tube bundles with one two-tube bundle running to each TR. Once the system of tubes is completely installed, the contractor will then blow a minimum of a 12-strand fiber into the corresponding tubes from the TDU, to feed directly to the TRs within the subject building. Once the fiber reaches the TR, a 1RU rack-mounted shelf containing a 6 or 12-port user-interface LC, system interface MPO cassette will become the termination point of that fiber.

Growth: Unoccupied tubes in the TDU's will be capped off with heat-shrink plugs for future addition of fiber optics. Similarly, we have designed the system so that there are a minimum of five (5) empty tubes in each hand hole. Those too will be capped for future use. Should it become necessary to add fiber in the future, a contractor simply would need to up-cap the unoccupied tube and blow new fiber from the TR all the way to the Main Computer Room. The fibers are available in 6, 12, 24, 36, 48 and 72-strand counts, and in single-mode OS2, 62.5 multi-mode, 50-micron multi-mode, and 50-micron laser enhanced OM3 and OM4. The fibers for this EHRM project will consist of a minimum of 12 -strand single-mode OS2 to each TR plus an additional unterminated bundle of a minimum of 12 strands that can be fusion spliced to any point of the building in the future.

Air Blown Fiber Tube Cables are not treated the same way as Conventional Fiber Cables; there are significant differences. ABF Tube Cables can be thought of as a highway of paths designed for the distribution of fiber after the highway is fully installed. The Tube Cables do not have fiber in them; rather the fiber gets installed as the final process of an ABF installation. Each Tube within the Tube Cable can be installed with 6, 12, 24, 48 or 72 strands (per Tube) so one (1) 19-Tube Cable can accept $19 \times 72 = 1368$ Total Fibers. When it comes to Physical and Logical Separation of Networks, ABF systems typically conform to this requirement because each tube is separate and the fibers can be installed so that multiple networks i.e., (Business, Healthcare, Security, etc) may all be installed inside the same cable but have their own "secure/separate" tube so that no co-mingling of networks exists.

Specific to connections between Buildings 1 and 56 – In order to conform to the VA and EHRM standards, 96 strands of ABF, consisting of two (2) 48-strand bundles will be placed within a TDU in Building 1 to connect each TR within Building 1 back to Building 56. Once within Building 56, these 96 strands should be treated as any other building's TR connections.

In addition to these 96 strands, and to support the future Side-A / Side-B core network/s move from Building 1 to 56, an additional 288 strands of ABF, consisting of four (4) 72-strand bundles will be terminated within a new equipment rack, to be located in the existing Building 1 MCR. Within Building 56, these 288 strands will be terminated, per VA standards, with racks 7, 8, or 9, in Row 6.

Within the series of Physical Hand Holes (PHHs), placed in the ground on the conduit pathway, spare tube cables will be capped for future use. In this way, should the VA decide to build a new facility on campus, an underground conduit connection from the new facility to the nearest PHH would create a cable tube pathway all the way back to Building 56 without requiring trenching except to that nearest PHH.

The Project Team has learned of a near-term future building that will be constructed on campus, an Urgent Care Center. It is our understanding that this building will be built near Building 51. We have taken the liberty of placing a PHH on the plans to support this facility. This PHH will have four (4) empty tube cables, capped for future use.

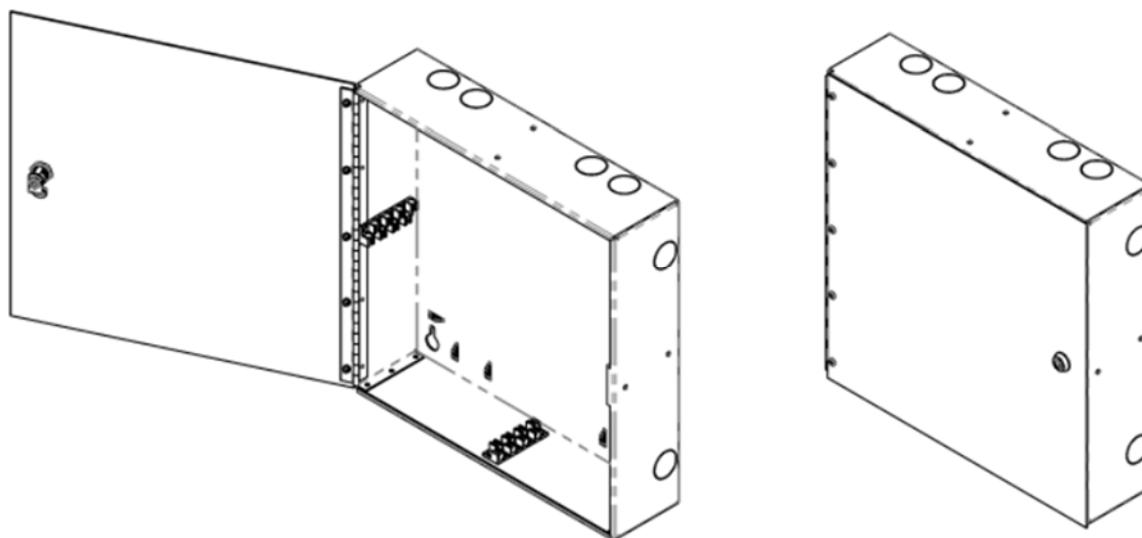


Figure 1 TUBE DISTRIBUTION UNIT



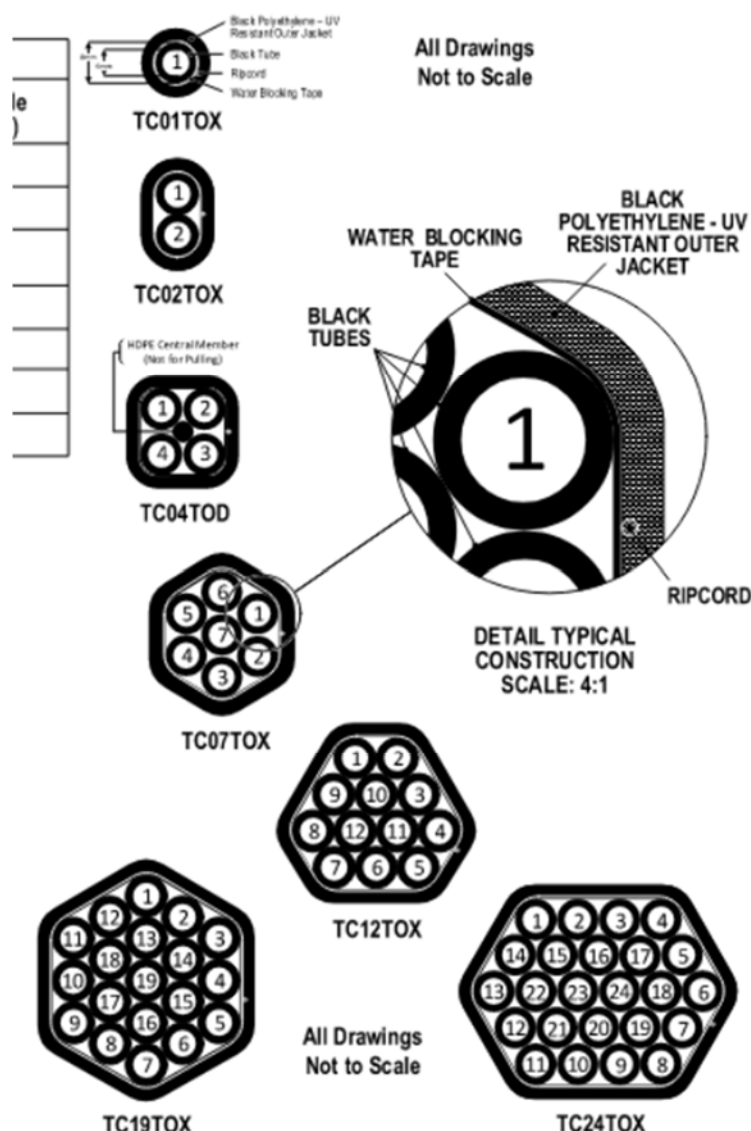


Figure 3 Micro-tubes within the tube bundle

Option 1 VA's Selection – An complete underground OSP loop around the campus. This topology provides substantial underground infrastructure built to be future-ready for future construction. In essence, this topology assumes a point-to-point bus connection from each facility to Building 56. The fiber cables would be considered 'home run' and would not pass through a building to feed an adjacent building.

SECONDARY SERVICE PROVIDER

It is required that all VA campus's source a secondary and redundant Internet Service Provider (ISP). HEFP SEP has identified this as a deficiency for this campus. Currently, ATT has a presence entering onto the campus from the North and East, traveling West into Building 23. There is no secondary provider. We have identified CenturyLink as the nearest provider with available 'dark fiber', along Interstate 255 at

the intersection of Route 231; Telegraph Rd. To support this future connection, we have placed two (2) four (4) inch conduits from the Building 56 Entry Room to the property line at Koch Road.

HEFP SEP (SOCAMES 6) Design Alert 6 – HEFP SEP has determined that there is currently no national OIT or OEHRM process to coordinate this work with the OIT contracted providers. HEFP SEP states that “Due to the contractual discussions OIT must have with the WAN providers to coordinate this work, HEFP SEP cannot provide adequate guidance to field engineers to ensure that this requirement is met. The HEFP SEP solution, to “...prevent delay and ambiguity in meeting this requirement...” indicates that “...if a VAMC is unable to identify or locate boundary entrance point, HELP SEP recommends that the site discontinue this effort...and de-scope this work from the design...” However, “If a site has successfully coordinated this work with OIT and included diverse pathways in their designs, please reach out directly to James Cullum and Mike Vulpis so that HEFP SEP can ensure PIT agrees on a case-by-case basis.” At this point in the design, we will locate the appropriate CenturyLink point of contact and forward that information to the Jefferson Barracks COR.

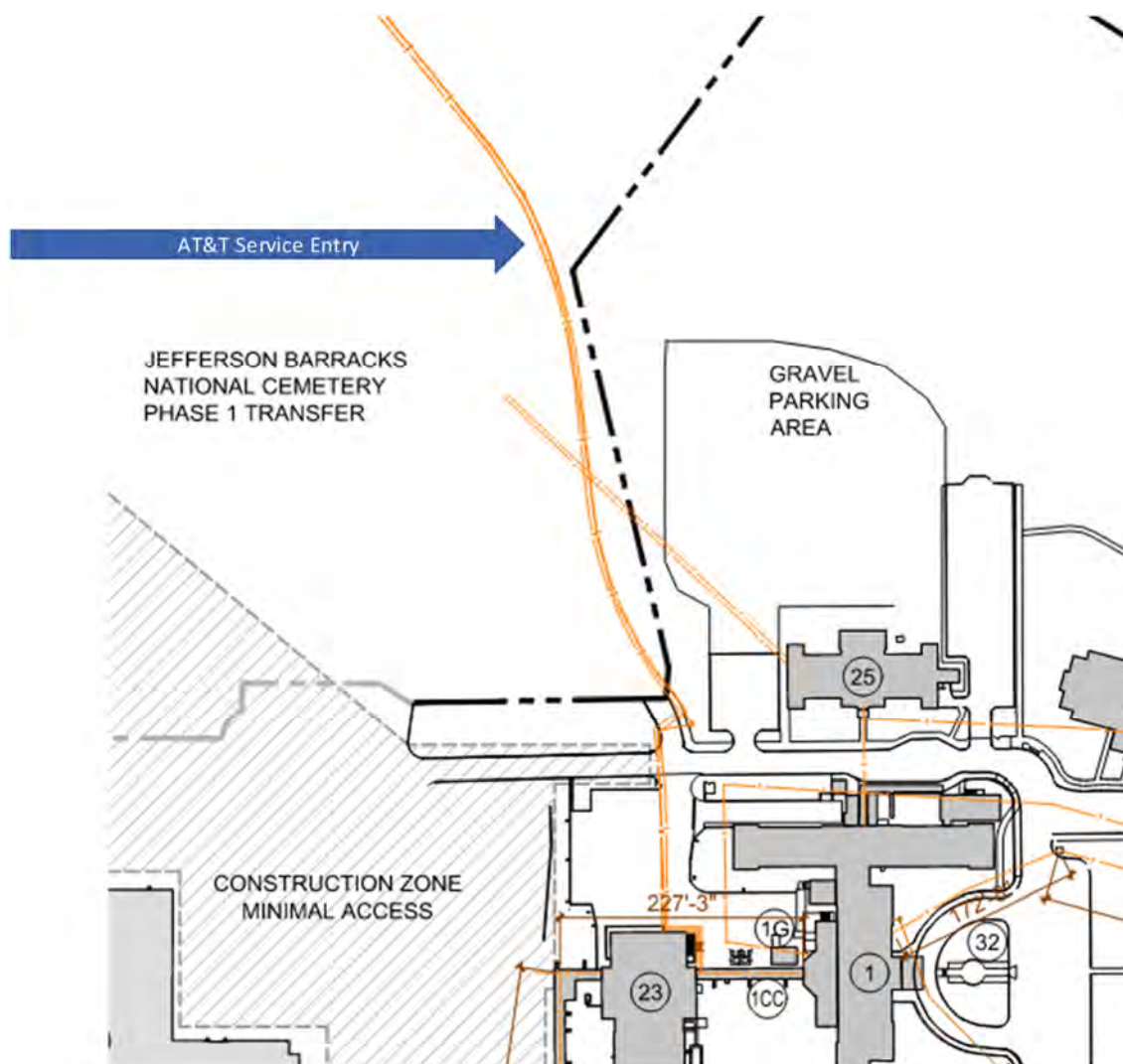


Figure 3 ATT Point of Entry

The design team contracted with a 3rd party that specializes as a repository of service provider optical fiber routes. A study of the output from this company indicates that there are very few SPs around the campus, and no other SPs except for AT&T are physically on the campus. However, CenturyLink has an underground pathway less than two miles from the south side of the property, south of I-255, east of Telegraph Road.

The best option to get this secondary SP onto the VA campus is to contract the current provider, ATT, to see if there is a redundant Central Office (CO) that could connect to this Koch road conduit.

Should ATT not have a redundant CO to connect to, then another option is to contact CenturyLink and negotiate a connection from their existing infrastructure (I-55/I-255) traveling east to Koch Road, traveling north under the I-255 overpass, and onto the campus. From the property line, the VA would place an underground meet-me point and tie CenturyLink into building 56. This would provide geographically separate SP connections.

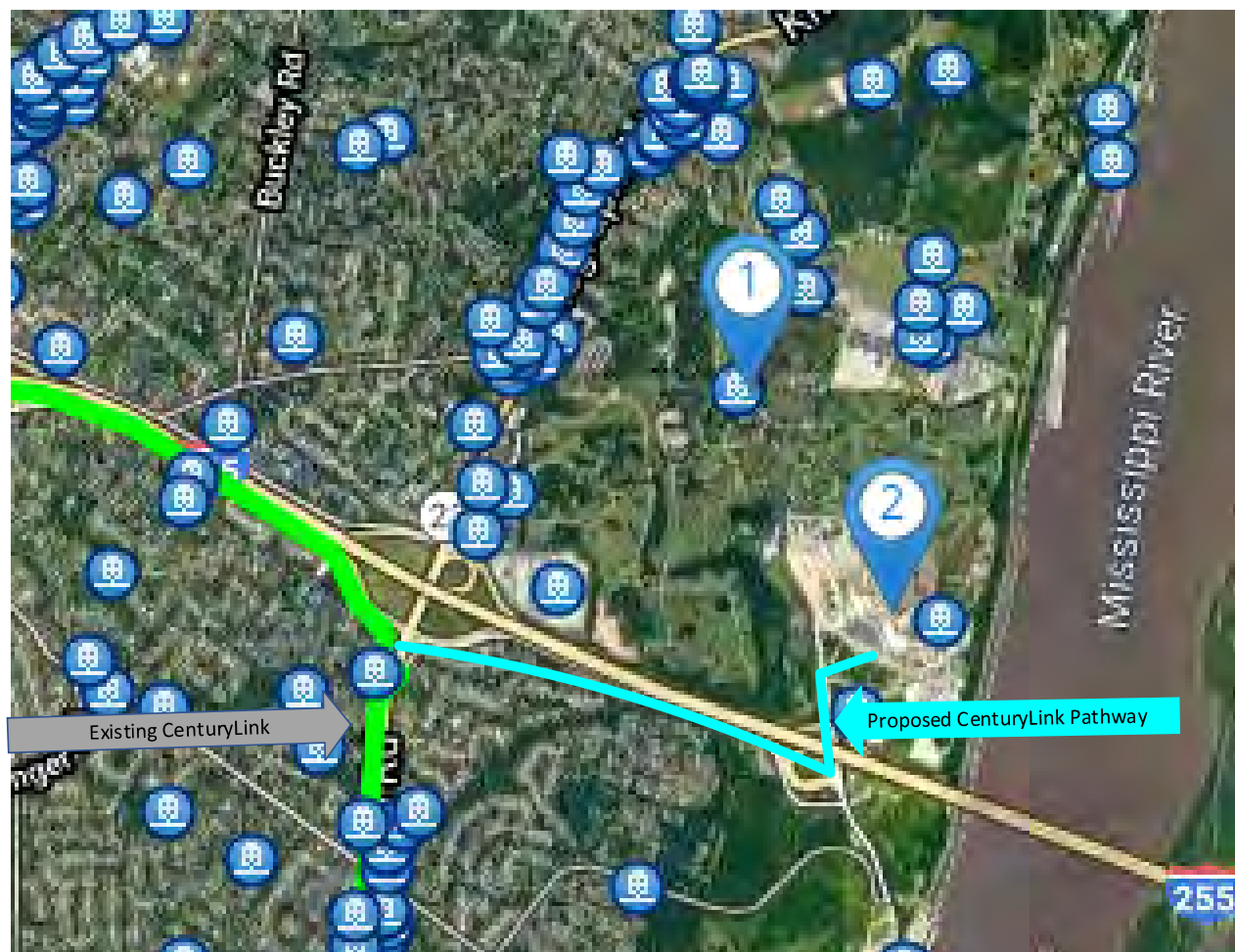


Figure 4 CentryLink Route

UNDERGROUND INFRASTRUCTURE

The underground pathway infrastructure would generally consist of a minimum of two (2) four-inch (4") conduits, spanned between a series of maintenance vaults, pull points, and buildings. The conduits would be encased in concrete as required. All components will comply with VA standards and be vehicle-rated.

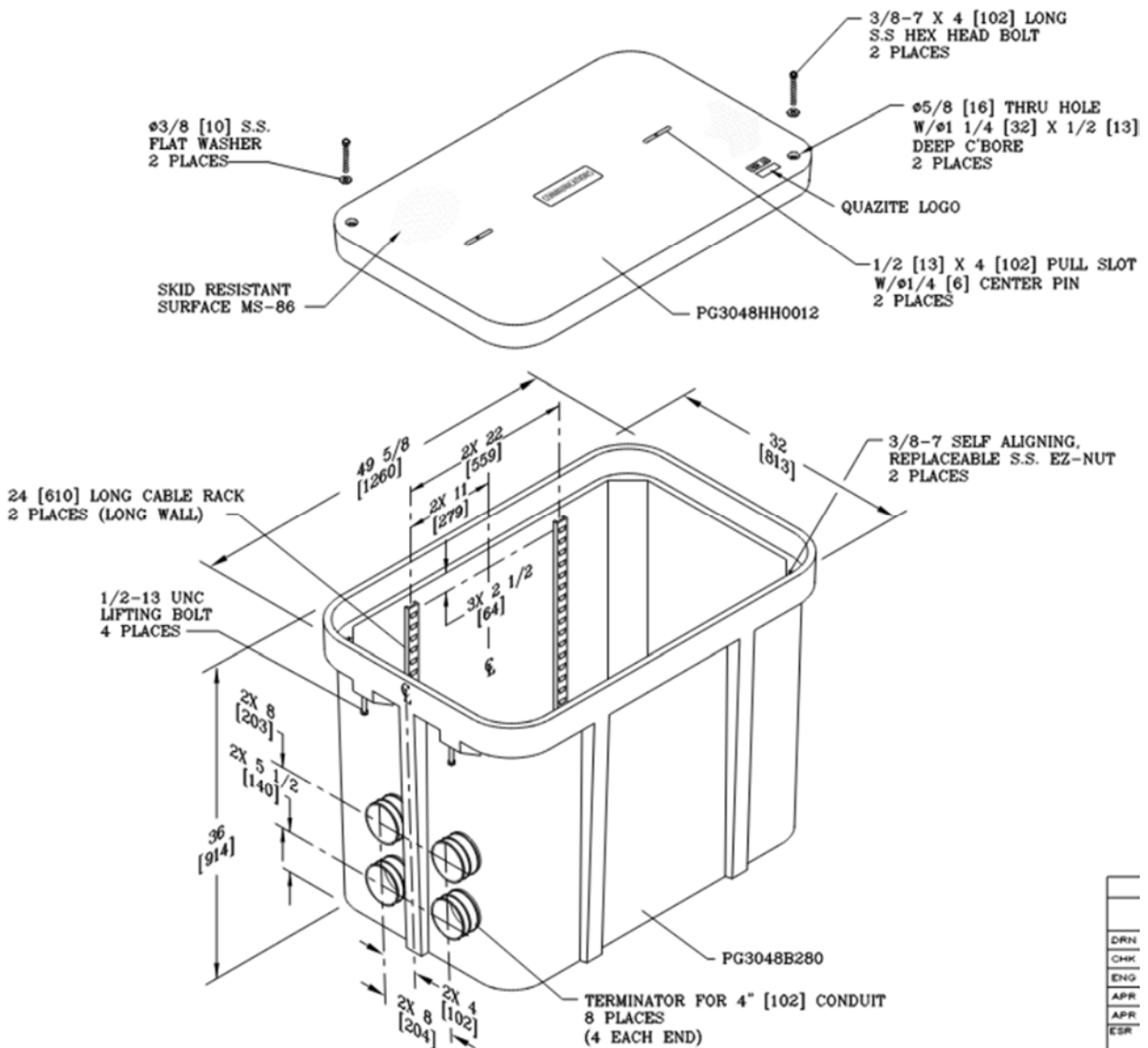


Figure 6 Typical Underground Hand Hole



Figure 7 Poly Concrete Pull Point

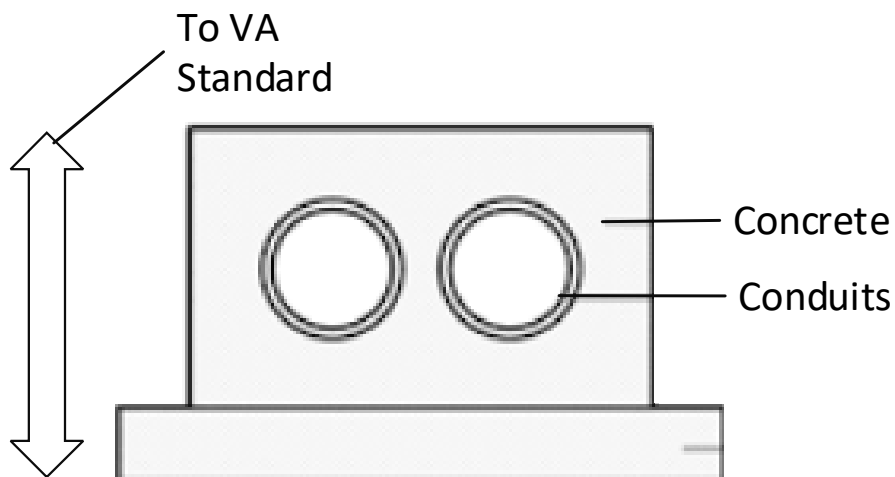


Figure 8 Typical Encased Conduits

EXISTING TELECOMMUNICATIONS SYSTEMS:

A site walk was performed during the week of January 6th to both confirm the existing Side-A pathways and to ascertain the site conditions in reference to the proposed redundant Side-B. Much of the existing Side-A was confirmed; however, we could not locate an amount of less than 10% and we located some additional infrastructure labeled as Communications that we have not seen on existing as-built drawings.

For the project, new OS2 indoor/outdoor optical fiber will be placed from Building 1, MCR, to each TR within each building on campus. The means and method to accomplish this upgrade withing the legacy pathways will be to place a high-pair count of fiber in the 'first' TR of each building, fusion splicing this fiber in the equipment rack of that TR, then splicing 12-strands in riser rated cable to each TR within the building. All of this fiber will terminate in the MCR on a new equipment rack. This rack will also contain the 288-strand count fiber connecting Building 1 to Building 56 to support the future Core-A and Core-B move to Building 56. Physically, this creates a point-to-point connection from each TR to the MCR without cross-connects. Optionally, the new Side-A fibers could be fusion spliced onto this 288-strand fiber to create a point-to-point connection from Building 56 to every campus TR.

SYSTEM MODIFICATIONS:

All communication structured cabling infrastructure with a UL Listing of Category 6 or below shall be upgraded to Category 6A data outlets, patch panels, and data cables. Please reference the below "SCOPE OF WORK BY BUILDING AND TASK" for additional information.

SECURITY:

For the expanded or relocated TRs, each will be provided with new security provisions as required including, but not limited to, a PIV enabled two-factor authorization access control keypad, door position switch, dual technology PTZ camera, siren, and ceiling mounted motion control sensors.

All new TRs will be provided with the required security features per the VA OIT, EHRM and Physical Security standards.

FIRE ALARM:

Design shall be in accordance with the latest editions of the NFPA 101 Life Safety Code, VA Fire Protection Design Manual, and the International Building Code (IBC). Where life safety systems are impacted during construction, the design shall address interim life safety measures to be implemented as part of the construction documents. Any new fire alarm devices required shall be specified to match the existing installed base to provide conformity and modularity.

Smoke partitions and fire alarm zones and devices will be coordinated with during the TR upgrades/relocations as required. Existing fire alarm devices located in areas where TRs are to be relocated or established will be demolished.

SCOPE OF WORK BY BUILDING AND TASK:

This renovation project consists of upgrading the campus's existing electrical and IT infrastructure to provide the required elements for the new EHRM system. The telecommunications scope of this project includes the following infrastructure improvements:

- Reconfiguration, expansion, and renovation of existing TR spaces throughout the buildings in the scope of work for this project.
- Communication infrastructure (new data outlets, patch panels, data racks, upgrade to Cat 6A cable) in buildings as necessary, physical security upgrades, assess and upgrade fiber infrastructure backbone campus wide within buildings and between buildings
- Provide OSP diversified/redundant paths from Data Center to individual buildings (TR rooms)
- Provide ISP diversified/redundant paths from main building TR to individual TRs throughout said building.

Wherever possible, this design for this project will aim to meet or exceed all requirements as indicated in the latest edition VA Design Standards and other VA Operations Manuals; where deviations occur as a result in dealing with existing conditions, A/E will notify VA to provide direction of required work. As part of the scope, on-site investigations of the existing systems are on-going to determine existing conditions and possible options to provide the best solution for each project upgrade.

Onsite investigations will include, but not be limited to, field verifying the following:

- All existing telecommunications installations such as existing concealed conduit runs, conduit, cable termination types/sizes, telecommunication, and systems equipment locations, etc., which potentially impact new installations.
- Expansion-Identified Rooms: Field verify the required expansion space; coordinate with architectural and mechanical as needed. Verify all additional electrical, IT, or mechanical requirements as needed.
- New/Relocated Rooms: Field verify existing available electrical, IT, and mechanical equipment for the proposed room; note, which equipment would be relocated/reused, salvaged, or demolished. Typically, new spaces will require a complete new build out prior to any modifications of the existing spaces because critical OIT and other important equipment reside on walls that would be demolished. The new spaces should be fully operational before any demolition work is started in the existing spaces.
- Site Infrastructure: Verify and as-built all relevant manholes/vaults, pull boxes, and raceways as required to accurately model and design the new IT site wide infrastructure.

Inside Plant (ISP) Backbone Design Intent:

- ISP horizontal and intra-building backbone will utilize a combination of OM4 Multi-Mode (MM) fiber-optic cable and OS1 Single-Mode (SM) fiber-optic cable. The intra-building backbone between TRs and MDAs will consist of a minimum of (1) 24-strand OM4 MM cable and (1) 12-strand OS1 SM cable from both A and B-side of the MDAs. All fiber-optic cable feeds shall be redundant and diversely routed.

Telecommunications Room (TR) serves as the transition point between horizontal and backbone cabling systems. TRs will contain all Local Area Network (LAN), security, and any other system that serves the TR zone. The following indicates the requirements laid out by VA standards that we are utilizing for our basis of design. Note: Due to existing conditions, all criteria may not be possible; all issues and solutions will be coordinated with VA for approval.

- Size:
 - o Non-Healthcare Facility: 80-SQFT for (1) rack, every additional rack adds 20-SQFT.
 - o Healthcare Facility: 170-SQFT for (4) racks, every additional rack adds 20-SQFT.
 - o Defining the size of the required TR is determined by the number of required data racks. Reference the data rack paragraph below for further basis-of-design details.
- Location:
 - o Provide at least (1) TR per floor.
 - o Additional TRs per floor are generally required when served building area exceeds 10,000-SQFT or when the horizontal cabling distance to the work area exceeds 295-FT.
 - o On buildings with multiple floors TRs shall be stacked.
 - o TRs shall not be located within 20-FT of the following areas: Electrical rooms, mechanical rooms, imaging equipment, other electro-magnetic field producing equipment.
 - o TRs shall not be located adjacent to the following areas: Elevator shafts, large chases, or stairwells.
- Telecommunication and special systems equipment to be housed in each TR location includes the following:
 - o Raceway entry points into TR:
 - Sleeve for Main Cross Connect (Campus/Building Distribution) and/or sleeve for Backbone Cabling (MCR to TR).
 - Sleeve horizontal distribution to Work Area Outlets (WAO).
 - Sleeve or conduit with bushing firestop and interduct for fiber.
 - o Cable Tray shall be comprised of (1) level.
 - Cable tray shall be utilized for backbone or main cross connect cabling AND horizontal cabling to WAO.
 - o Data Racks (quantity as required for coverage). Reference the data rack paragraph below for further basis-of-design details.
 - o Security Equipment
 - Camera with Pan-Tilt-Zoom, passive infrared dual technology.
 - Ceiling mounted motion sensor (quantity as required for coverage).
 - PIV enabled two-factor authentication keypad.
 - Siren.

We have conducted 80-Meter horizontal cable studies (AKA – Diamond Study) for each existing and proposed new or relocated TR per the VA provided Readiness Assessment; these horizontal cable studies are included in the attached appendix.

Data racks shall be a minimum of 84-in tall, 45 Rack Units (RU), white finish, with cable management; Ortronics MM20 will be the Basis-of-Design. These racks will house a combination of active and passive components including, but not limited to: Fiber and ethernet patch panels, ethernet switches, wire managers, blanking panels, UPSs, and Power Distribution Units (PDU). Currently, we have determined the number of racks required in each TR per the required amount of horizontal cabling patch panels; utilizing the VA standard of the rule of 1/3's, each rack will be separated into 3 sections. The top sections will be utilized for patching, the middle section will be utilized for switching, and the both section will be utilized for power distribution equipment. Additionally, per the review comments (6) UTP patch panels will be the maximum amount allowed; with a 48-port patch panel each TR rack can support up to 288 WAOs/data connections.

Based on as-built documents and site findings, the following indicates the upgrade requirements and/or current deficiencies for each building:

- **All Buildings**

- o General:

- Proposed TR locations have been coordinated with VA; the below Floor paragraphs indicate existing and new TR locations.
 - Cabling and WAO will be revised for CAT 6A cabling as required.
 - Relocate or extend existing IT closets to meet VA Infrastructure Standards for Telecommunications Spaces, unless otherwise directed by VA. A Minimum of 3 feet of clearance is required around all sides of racks. All racks, UPS units, and other equipment are to be seismically braced
 - In general, all rooms that require WAO have been provided with (2) 4-port data outlets. Specialty or larger rooms may include additional ports/outlets.

SPACE PLANNING

Facilities Planning

Remodels to existing buildings to meet all design requirements possible. Spaces may not meet size requirements or ideal location requirements. The A/E has worked extensively with the COR and facilities planning to accommodate as many of the requirements as possible while working to meet the intents of all the VA design requirements.

ESTIMATING

The A/E will provide cost estimates per the SOW and scope narrative.

Estimates are currently scheduled for the following milestones, ~~15%~~, ~~35%~~, ~~65%~~, and ~~95%~~. The final cost estimate will be an update to the 95% based on any final changes.

Appendix A- Environmental Investigation



PROJECT NUMBER 657-21-701JB
PROJECT NAME JBVAMC EHRM Infrastructure Upgrade Project
SUBMITTAL 100% Construction Documents
SUBJECT Environmental Design Narrative

Project Overview and Background

Riverfront Safety & Health, LC (Riverfront), a Service-Disabled Veteran Owned Small Business, is currently performing a limited asbestos & lead identification field survey in support of 100% Construction Documents for the EHRM Infrastructure Upgrades project (VA Project 657-21-701JB) proposed at Jefferson Barracks VA Medical Center (JBVAMC), St. Louis, MO (The Project). The current limited asbestos and lead survey is being performed using project scope of work documents and provided drawings as a basis for proposed work and areas.

Currently, RSH understands the scope of work may impact the following related systems and materials as project needs will vary at each of the 20 buildings:

The following rooms/buildings are within the scope of this project:

Building 1	C102D, 1E15, 2C10, E303, 3C14, 1W01, W315, GC11/GC12
Building 2	G03, 111, 209, 308
Building 3	B025, 117, 128, 224
Building 3T	118
Building 18	11, 119, 213, 312
Building 23	G09, 121
Building 24	G02A, 114B, 205A
Building 25	115, 116, 117A, 204B, 205, 312, 313A
Building 51	BE111, 1A102, 1A183, 1A139/1A137A
Building 51T	109
Building 52	GN29, 1N82, 1S33, 2N91, 2S53
Building 53	GG510, Pipe Chase Z005, 1S02, 1S11, 2S001
Building 53T	109
Building 55	1A129, 1B104, 1C132, 2A136, 2C144, 3A120, 3C149
Building 56	BA105, 1A109, 2A122, 3A122
Building 57	1B120, 1B139
Building 58	104, 149
Building 60	102, 101A
Building 60T	108
Building 75	1B105

Asbestos and lead drawings from 2018-2019 Campus Survey performed by RSH are being used as a base line for inspection of The Project. The limited project specific asbestos and lead survey is being performed by Charles Davis, Blaine Gravagna and Aaron Campbell. All workers are accredited under the Asbestos Hazard Emergency Response Act (AHERA) and the U.S. Environmental Protection Agency Model Accreditation Program for Asbestos Building Inspectors and Mr. Davis is an Environmental Protection Agency (EPA) trained Lead Risk Assessor. All work is being performed under the direct supervision of a Certified Industrial Hygienist (CIH), Mr. Justin R. Rhyneer to ensure standard EPA-NESHAP/AHERA/OSHA field inspection and sampling methods are employed for representative project inspection. Principal contacts for this project are Kyle Florian of the VA Medical Center and Richard McPhee from Spees DB. Access to known work areas was provided during regular hospital hours.

Based on the age of the facility and potential methodology of contract work, anticipated suspect materials



included caulks, duct seam sealants, black tar, asbestos fire doors, asbestos pipe insulation, asbestos floor tiles, asbestos black tile mastic, structural caulks, various adhesives, various forms of thermal system insulation, exterior surfacing materials, transite panels, etc. and potential Lead Based Paint (LBP) on structural concrete, plaster walls, plaster ceilings, doors/door frames, glaze and ceramic blocks and original structural steel components.

The following generalized analysis is provided for your review and future design considerations related to potential asbestos, lead, and mold issues associated with The Project.

- Mold impacted building materials is most likely a highly localized condition for The Project, if any. The known project work locations are not generally the types of locations where this issue presents, and a history of moisture sources such as roof or pipe system leaks are not known at this time. Nevertheless, areas will be visually inspected for suspected visible mold growth conditions on building materials located within or near the projected pathways of work, with confirmatory sampling to be performed on an as needed basis.
- As a general course of action, reuse of existing wall penetrations and pathways for cabling are recommended. Areas within chases and exterior wall voids are normally suspect for asbestos containing materials. Where plaster ceilings are present, it is generally assumed, asbestos pipe insulation and/or mudded fittings associated with domestic water, chilled water, or perimeter heat systems will be present above plaster ceilings.
- This project has potential for widely dispersed locations of material impact as the grounding system, possible inter and intrabuilding fibers line installations, and wall installation of Cat6A data ports will travel significant distances. It is important to develop or define pathways of associated works to allow for a targeted material inspection. The precise extent of demolition is currently under development as related to fiber cables, Cat 6A, and pull/patch. Methods or design initiatives to minimize disturbance of paints on walls should be considered.
- Asbestos flooring materials and associated flooring mastics/adhesives may be present within TR Rooms scheduled to receive new vertical penetrations (if any). The presence of these materials requires assessment for potential abatement and is necessary for penetration of all flooring systems.
- Asbestos pipe insulation and associated asbestos mudded fittings may be present in the corridors where cabling may be routed. The condition of these materials, where present above ceiling grids, has been confirmed through existing VA Six Month Asbestos Condition Assessment Records as being in good/intact condition (see Appendix B), which poses little risk to workers as long as they do not disturb the material in question. Aspects of this design project involving above-ceiling cable routing or similar tasks bring workers into close proximity to asbestos pipe insulation materials have been made with the assumption that asbestos piping is currently in good overall condition unless otherwise noted or observed by others. However, damage to a specific section of pipe insulation can occur at any given time for any number of reasons. As such, observation of damaged pipe insulation that is suspected or known to contain asbestos should be brought to the attention of the VA COR immediately for advisement, as this condition presents risks to workers and/or building occupants and is not considered a scope item. Should damaged pipe insulation conditions be encountered, appropriate remediation response actions may be necessary to allow for the safe removal of ceiling tiles and/or installation of new infrastructure during execution of



The Project. Please see Appendix B for VA provided six-month periodic surveillance documents.

- Historic asbestos reports have been furnished for all Buildings impacted by The Project. Where ages of buildings are provided and are of post 1978 construction (EPA ban of lead-based paint use), a more accurate estimate of potential lead issues may be interpreted. Federal and State standards require a limited asbestos inspection survey for all building prior to renovation or demolition without regard to age.
- The potential for damaged asbestos TSI and associated fittings may exist above acoustical ceiling grids or plaster ceilings throughout the buildings and may be of issue related to long distance routing of the communication system through corridors and within peripheral office/exam room spaces. Areas above ceilings will require visual inspection for current conditions above ceiling tiles or where plaster ceilings are demolished. Areas within TR rooms will require visually inspection.
- Where new building penetrations are necessary for interbuilding fiber lines, asbestos containing stucco and lead based paint is normally present on the exterior of early to mid-century buildings and lead based paint on the interior foundation walls. All exterior stucco is an asbestos containing material and associated caulks will be considered suspect asbestos containing until otherwise confirmed.
- Attachments to ceiling, where not otherwise suspended from existing trays or bundles, requires knowledge of lead content of paint where present. Previous lead inspection records indicate a targeted approach, leaving a number of suspect building surfaces in need of further evaluation to accommodate needs of The Project.
- The VA provided six-month periodic surveillance forms for Condition Assessments associated with buildings impacted by The Project. These documents serve as the basis for campus-wide conditions of asbestos pipe insulation, floor tile, floor tile mastic, asbestos caulking, and other materials likely to be impacted by The Project. Please see Appendix B for VA provided six-month periodic surveillance documents.

This report summarizes the asbestos and lead-related issues identified for this project. The sampling results have been summarized in Tables 1 and 2 with the laboratory analytical reports.

Scope of Work

Riverfront provided inspection personnel accredited under the Asbestos Hazard Emergency Response Act (AHERA), U.S. Environmental Protection Agency Model Accreditation Program for Asbestos Building Inspectors to perform the following:

- Verify the presence, location, quantity, appearance, and condition of all applicable building materials exhibiting asbestos, lead and mold containing materials within areas of scheduled work at the Jefferson Barracks VA Medical Center in St. Louis, MO identified by the VA as likely to be impacted during future EHRM Infrastructure Upgrade Project. Standard EPA/AHERA/OSHA requirements and field sampling methods were employed to ensure representative sample collection.

Asbestos Containing Materials Inspection Results



Currently, Riverfront personnel collected a total of 909 (1,214 layers) representative samples of suspected asbestos-containing materials related to EHRM Infrastructure Upgrade Project. All samples were transferred via written chain-of-custody, to EMSL, an AIHA & NVLAP accredited laboratory, for analysis. The suspect materials, which were similar in general appearance and age of construction, were grouped into homogeneous material sets and sampled. A minimum of three samples were collected of all suspect asbestos containing building materials found during the site visit based on conditions noted on December 29, 2021- January 14, 2022, March 11, 2022, and March 14, 2022. Practical precautions were used in collecting samples to ensure safety of all personnel. All samples were safely collected, placed in sealed containers, and transferred with a written chain-of-custody, to EMSL, an AIHA & NVLAP accredited laboratory, for analysis. All samples were analyzed using polarized light microscopy (PLM) analysis with dispersion staining (DS) according to U.S. Environmental Protection Agency (EPA) Method 600 IR-93/116 which is presently recommended by the EPA. Asbestos Containing Materials are defined by EPA as having greater than 1% asbestos as measured by PLM methods. The 2018-2019 RSH Campus survey was used as a baseline for inspection and additional samples were collected in known areas of work within the following buildings:

Building 18:

Nine (9) of the 75 samples collected at Building 18 during this limited **survey** were detected as asbestos-containing materials (ACM). The nine (9) samples represent three (3) material groups and will be affected by the project scope. The material groups are as follows:

- **12" x 12" Floor Tile – Tan with Streaks and Black Mastic** bulk sample results were positive, containing 2% Chrysotile asbestos. This material is in good condition. The material is located in Rooms 119, 213 and 312 and will be impacted by the project. Total amount impacted will be 244 square feet.
- **Gray Interior Window Caulk** bulk sample results were positive, containing 3% Chrysotile asbestos. This material is in good condition. The window caulk is located on interior windows within the second and third floor hallways and will be impacted by the project. A total of four windows will be removed totaling 76 linear feet of asbestos caulk.
- **Ceiling Tile Adhesive - Black (Hockey Puck)** bulk sample results were positive, containing 3%, 4%, and 3% Chrysotile asbestos respectively. This material is in good condition. Ceiling tile adhesive is located in Room 011 on remnant plaster ceiling that has been previously demolished. Approximately 2 asbestos adhesive rounds will be abated.

During this inspection, eight (8) material groups of asbestos containing materials based on the 2018 Riverfront Safety and Health Campus Asbestos Drawing are known to be present within the building.

- **Asbestos Pipe Insulation with associated Asbestos Mudded Fittings** are present within the building and are known ACM materials based on review of previous sample results. These materials are thought to be impacted by the project and are present in chases, wet walls and above ceiling grid. Significantly damaged and damaged pipe insulation was noted in various rooms above the ceiling grid and should be remediated as necessary to facilitate a safe working environment.
 - **Damaged Pipe Insulation Locations**



- Room 217B
- Room 217D
- Room 217E
- Room 217
- Room 216
- Room 206
- Room 101
- Room 202
- **Significantly Damaged Pipe Insulation Locations**
 - Room 215
 - Room 207B
 - Room 210A
 - Room 210B
 - Room 005
- **Various Floor Tiles and/or Underlying Mastic** containing greater than 1% Chrysotile are present within the building and are shown on project drawings. Floor tile and/or underlying mastics are present within various rooms and should not be impacted by the project unless otherwise noted.
- **Interior Door Caulk- Gray** containing greater than 1% asbestos is present within the building and is not thought to be impacted by the project. It is located at various door locations on each floor, typically leading to the exterior or to a specific hallway.
- **Fire Doors (PACM)** are presumed to contain asbestos and are thought to be located throughout the building at stairwells and should not be impacted by the project.
- **Cementitious Panels within Steam Convactor Units (PACM)** are presumed to contain asbestos behind heat convectors within wall pockets. The heat convectors are present within perimeter walls and should not be disturbed by the project.
- **Exterior Surfacing (Stucco)** containing greater than 1% Chrysotile is present on the exterior face of the building behind a new EFIS layer. Current project drawings do not show this material being disturbed however it may become disturbed if new condenser lines will penetrate the exterior of the building.
- **Concealed Asbestos Window Caulk** is suspected to be located behind new window components. Exterior window components should not be impacted by the project.
- **Historic Roofing System (PACM)** is presumed to contain asbestos. Presence of historic roof system or associated remnants and sealants underlying the existing membrane is unknown. Where project penetrations are required, the roof will be considered to have an asbestos containing material unless otherwise inspected or prior inspection results are available.
- **Debris within Crawlspace Soil** containing greater than 1% Chrysotile is present within the crawlspace and is not shown on project drawings. Asbestos containing debris within the crawlspace should not be impacted by the project.

Building 24:

Zero (0) of the 39 samples collected at Building 24 during this limited **survey** were detected as asbestos-containing materials (ACM).

During this inspection, ten (10) material groups of asbestos containing materials based on the 2018 Riverfront Safety and Health Campus Asbestos Drawing are known to be present within the building.



- **Asbestos Pipe Insulation with associated Asbestos Mudded Fittings** are present within the building and are known ACM materials based on review of previous sample results. These materials are not thought to be impacted by the project unless noted on project drawings. Pipe insulation is present in chases, wet walls and above ceiling grid.
 - **Room 114C** contains 24 linear feet of asbestos pipe insulation that shall be remediated to facilitate a safe work environment. All removal shall be conducted using glove bag techniques within a negative pressure enclosure.
- **Various Floor Tiles and/or Underlying Mastic** containing greater than 1% Chrysotile are present within the building and are not shown on project drawings. Floor tile and/or underlying mastics are present within various rooms and should not be impacted by the project unless otherwise noted.
- **Asbestos Containing Wall Panels** containing greater than 1% Chrysotile are present within the building and are not shown on project drawings. Wall panels are located on the second floor near the work area and should not be impacted by the project. If new ports are to be installed use an adhesive backed system. Do not disturb the asbestos containing panels.
- **Duct Gaskets- White** containing greater than 1% Chrysotile are present within the building and are not shown on project drawings. Asbestos containing duct gaskets are located on the ground floor and are not thought to be impacted by the project.
- **Sink Soundproofing- Black** containing greater than 1% Chrysotile is present within the building and is not shown on project drawings. Sink soundproofing is located on the first floor and should not be impacted by the project.
- **Fire Doors (PACM)** are presumed to contain asbestos and are thought to be located throughout the building at stairwells and should not be impacted by the project.
- **Cementitious Panels within Steam Convactor Units (PACM)** are presumed to contain asbestos behind heat convectors within wall pockets. The heat convectors are present within perimeter walls and should not be disturbed by the project.
- **Concealed Asbestos Window Caulk** is suspected to be located behind new window components. Window components should not be impacted by the project.
- **Exterior Surfacing (Stucco)** containing greater than 1% Chrysotile is present on the exterior face of the building behind a new EFIS layer. Current project drawings do not show this material being disturbed however it may become disturbed if new condenser lines will penetrate the exterior of the building.
- **Historic Roofing System (PACM)** is presumed to contain asbestos. Presence of historic roof system or associated remnants and sealants underlying the existing membrane is unknown. Where project penetrations are required, the roof will be considered to have an asbestos containing material unless otherwise inspected or prior inspection results are available for review

Building 3:

Zero (0) of the 54 samples collected at Building 3 during this limited **survey** were detected as asbestos-containing materials (ACM).

During this inspection, nine (9) material groups of asbestos containing materials based on the 2018 Riverfront Safety and Health Campus Asbestos Drawing are known to be present within the building.



- **Asbestos Pipe Insulation with associated Asbestos Mudded Fittings** are present within the building and are known ACM materials based on review of previous sample results. These materials are not thought to be impacted by the project and are present in chases and wet walls.
- **Various Floor Tiles and/or Underlying Mastic** containing greater than 1% Chrysotile are present within the building and are not shown on project drawings. Floor tile and/or underlying mastics are present within various rooms and will be impacted by the project.
 - **Room 117** contains 9"x 9" floor tile and black mastic beneath non asbestos 12"x 12" floor tile, associated mastic and a wood sub floor. Current project plans include demolishing the floor to bare substrate, directly impacted the asbestos containing material. Total asbestos containing flooring impacted is approximately 360 square feet total.
 - **Room 224** contains two (2) layers of 9"x 9" floor tile and black mastic, each separated by a wood sub floor, beneath non asbestos brick red floor sheeting associated mastic and a wood sub floor. Current project plans include demolishing the floor to bare substrate, directly impacted the asbestos containing material. Total asbestos containing flooring impacted is approximately 420 square feet total.
- **Interior Window Caulk- Gray** containing greater than 1% Chrysotile is present within the building and are not shown on project drawings. Interior window caulk is located on the first level east addition windows and should not be impacted by the project.
- **Interior Surfacing Material (Stucco)** containing greater than 1% Chrysotile is present within the building and are not shown on project drawings. Asbestos containing surfacing material on walls are located on the basement, first and second floors at the eastern addition threshold and should not be impacted by the project.
- **Exterior Surfacing (Stucco)** containing greater than 1% Chrysotile is present on the exterior face of the building behind a new EFIS layer. Current project drawings do not show this material being disturbed however it may become disturbed if new condenser lines will penetrate the exterior of the building.
- **Fire Doors (PACM)** are presumed to contain asbestos and are thought to be located throughout the building at stairwells and should not be impacted by the project.
- **Cementitious Panels within Convactor Units (PACM)** are presumed to contain asbestos behind heat convectors within wall pockets. The heat convectors are present within perimeter walls and should not be disturbed by the project.
- **Concealed Asbestos Window Caulk** is suspected to be located behind new window components. Window components should not be impacted by the project.
- **Historic Roofing System (PACM)** is presumed to contain asbestos. Presence of historic roof system or associated remnants and sealants underlying the existing membrane is unknown. Where project penetrations are required, the roof will be considered to have an asbestos containing material unless otherwise inspected or prior inspection results are available for review.
- **Debris within Crawlspace Soil** containing greater than 1% Chrysotile is present within the crawlspace and is not shown on project drawings. Asbestos containing debris within the crawlspace should not be impacted by the project.

Building 2:

Six (6) of the 54 samples collected at Building 2 during this limited **survey** were detected as asbestos-containing materials (ACM). The six (6) samples represent two (2) material groups and will be affected by the project scope. The material groups are as follows:



- **12" x 12" Floor Tile – Tan Under Carpet** bulk sample results were positive, containing 2% Chrysotile asbestos. This material is in good condition. The material is located in Room 111 and will be impacted by the project. Total amount impacted and removed within a negative pressure enclosure will be 260 square feet.
- **Sink Soundproofing- White** bulk sample results were positive, containing 3% and 4% Chrysotile asbestos. This material is in good condition. The sink soundproofing is located on sinks within Room 209 and will be impacted by the project. A total of two sink units will be removed using intact methods within a negative pressure enclosure.

During this inspection, eleven (11) material groups of asbestos containing materials based on the 2018 Riverfront Safety and Health Campus Asbestos Drawing are known to be present within the building.

- **Asbestos Pipe Insulation with associated Asbestos Mudded Fittings** are present within the building and are known ACM materials based on review of previous sample results. These materials are not thought to be impacted by the project and are present in chases and wet walls.
- **Various Floor Tiles and/or Underlying Mastic** containing greater than 1% Chrysotile are present within the building and are not shown on project drawings other than in rooms it will be impacted. Floor tile and/or underlying mastics are present within various rooms and will be impacted by the project.
- **Duct Seam Sealant- White** containing greater than 1% Chrysotile is present within the building and is not shown on project drawings in areas that it will not become impacted. It is assumed on all ducts unless verified in the field.
- **Penetration Caulk- Brown** containing greater than 1% Chrysotile is present within the building and is not shown on project drawings. Asbestos containing penetration caulk brown is located at the ceiling and drywall wall penetration points. Penetration Caulk-Brown will be impacted by the project.
 - **Room G03 and G04** will require the removal of drywall walls where the brown caulk along the ceiling and wall seam is present. The total amount impacted for both areas is approximately 30 linear feet. Removal shall be conducted within a negative pressure enclosure.
- **Exterior Door Caulk- Gray** containing greater than 1% Chrysotile is present on the exterior of the building and is not shown on project drawings. Asbestos containing door caulk should not be impacted by the project.
- **Exterior Louver Sill Sealant- Black** containing greater than 1% Chrysotile is present on the exterior of the building and is not shown on project drawings. Asbestos containing louver caulk should not be impacted by the project.
- **Fire Doors (PACM)** are presumed to contain asbestos and are thought to be located throughout the building at stairwells and should not be impacted by the project.
- **Cementitious Panels within Convect Unit (PACM)** are presumed to contain asbestos behind heat convectors within wall pockets. The heat convectors are present within perimeter walls and should not be disturbed by the project.
- **Concealed Asbestos Window Caulk** is suspected to be located behind new window components. Window components should not be impacted by the project.
- **Exterior Surfacing (Stucco)** containing greater than 1% Chrysotile is present on the exterior face of the building behind a new EFIS layer. Current project drawings do not show this material being



disturbed however it may become disturbed if new condenser lines will penetrate the exterior of the building.

- **Historic Roofing System (PACM)** is presumed to contain asbestos. Presence of historic roof system or associated remnants and sealants underlying the existing membrane is unknown. Where project penetrations are required, the roof will be considered to have an asbestos containing material unless otherwise inspected or prior inspection results are available for review.

Building 25:

Nine (9) of the 87 samples collected at Building 25 during this limited **survey** were detected as asbestos-containing materials (ACM). The nine (9) samples represent three (3) material groups and will be affected by the project scope. The material groups are as follows:

- **Floor Paper Backing Under Floor Tile- Yellow** bulk sample results were positive, containing 2% Chrysotile asbestos. This material is considered a friable material and is in good condition. The material is located in Room 113A and will be impacted by the project and should be removed within a negative pressure enclosure. Total amount impacted will be 40 square feet.
- **Floor Tile Adhesive- White** bulk sample results were positive, containing 2% Chrysotile asbestos. This material and is in good condition. The material is located in Room 113A and will be impacted by the project and should be removed within a negative pressure enclosure. Total amount impacted will be 40 square feet.
- **Floor Tile Mastic- Black** bulk sample results were positive, containing 5%, 6% and 2% Chrysotile asbestos. This material is in good condition. The material is located in Room 113A and 308 under carpet and will be impacted by the project and should be removed within a negative pressure enclosure. Total amount impacted will be 40 and 35 square feet within 113A and 308 respectively.

During this inspection, eleven (11) material groups of asbestos containing materials based on the 2018 Riverfront Safety and Health Campus Asbestos Drawing are known to be present within the building.

- **Asbestos Pipe Insulation with associated Asbestos Mudded Fittings** are present within the building and are known ACM materials based on review of previous sample results. These materials are not thought to be impacted by the project and are present in chases and wet walls. Damaged pipe insulation was noted in various rooms above the ceiling grid and should be remediated as necessary to facilitate a safe working environment.
 - **Damaged Pipe Insulation Locations**
 - Room 101
- **Various Floor Tiles and/or Underlying Mastic** containing greater than 1% Chrysotile are present within the building and are not shown on project drawings other than in rooms it will be impacted. Floor tile and/or underlying mastics are present within various rooms and will be impacted by the project.
- **Fiberglass Pipe Insulation Sealant- White** containing greater than 1% Chrysotile is present within the building and is not shown on project drawings in areas that it will not become impacted. It is assumed on all fiberglass pipe insulation. Fiberglass pipe insulation being impacted will need to be removed within a negative pressure enclosure using approved glove bag techniques. Fiberglass pipe sealant will be impacted in the following rooms:



- **Room 114** contains 25 of fiberglass pipe insulation with white sealant that will need to be abated to facilitate the heat convector unit removal on the floor above.
- **Vibration Joint Cloth- White** containing greater than 1% Chrysotile is present within the building and is not show on project drawings. Asbestos containing vibration joint cloth is located on the second floor as well as in the attic and should not be impacted by the project.
- **Debris within Crawlspace Soil** containing greater than 1% Chrysotile is present within the crawlspace and is not show on project drawings. Asbestos containing debris within the crawlspace should not be impacted by the project.
- **Adhesive on Ceiling Plaster- Black** containing greater than 1% Chrysotile is present on the on the plaster ceiling on the third floor and is not shown on project drawings. Asbestos containing adhesive on plaster ceilings should not be impacted by the project.
- **Fire Doors (PACM)** are presumed to contain asbestos and are thought to be located throughout the building at stairwells and should not be impacted by the project.
- **Cementitious Panels within Convector Units (PACM)** are presumed to contain asbestos behind heat convectors within wall pockets. The heat convectors are present within perimeter walls and will be disturbed by the project.
 - **Room 208** contains a steam convector unit that current project plans intend to demolish. A total of 12 square feet cementitious panel will need to be remediated within a negative pressure enclosure.
- **Concealed Asbestos Window Caulk** is suspected to be located behind new window components. Window components should not be impacted by the project.
- **Exterior Surfacing (Stucco)** containing greater than 1% Chrysotile is present on the exterior face of the building behind a new EFIS layer. Current project drawings do not show this material being disturbed however it may become disturbed if new condenser lines will penetrate the exterior of the building.
- **Historic Roofing System (PACM)** is presumed to contain asbestos. Presence of historic roof system or associated remnants and sealants underlying the existing membrane is unknown. Where project penetrations are required, the roof will be considered to have an asbestos containing material unless otherwise inspected or prior inspection results are available for review.

Building 23:

Six (6) of the 61 samples collected at Building 23 during this limited **survey** were detected as asbestos-containing materials (ACM). The six (6) samples represent two (2) material groups and will be affected by the project scope. The material groups are as follows:

- **Pipe Insulation- Black** bulk sample results were positive, containing 56%, 57% and 60% Chrysotile asbestos. This material is considered a friable material and is in damaged condition. The material is located in Room G09A and will be impacted by the project and should be removed within a negative pressure enclosure. Total pipe insulation (white and black) amount impacted, for G09 and G09A, will be 170 linear feet.
- **Tar Coating on Pipe Insulation- Black** bulk sample results were positive, containing 8%, 9% and 6% Chrysotile asbestos. This material and is in good condition. The material is located in Room G09A and will be impacted by the project and should be removed within a negative pressure enclosure. Total pipe insulation (white and black) amount impacted, for G09 and G09A, will be 170 linear feet.



During this inspection, seven (7) material groups of asbestos containing materials based on the 2018 Riverfront Safety and Health Campus Asbestos Drawing are known to be present within the building.

- **Asbestos Pipe Insulation with associated Asbestos Mudded Fittings** are present within the building and are known ACM materials based on review of previous sample results. These materials are not thought to be impacted by the project and are present in chases and wet walls.
- **Various Floor Tiles and/or Underlying Mastic** containing greater than 1% Chrysotile are present within the building and are not shown on project drawings other than in rooms it will be impacted. Floor tile and/or underlying mastics are present within various rooms and will not be impacted by the project.
- **Fire Doors (PACM)** are presumed to contain asbestos and are thought to be located throughout the building at stairwells and should not be impacted by the project.
- **Cementitious Panels within Convectur Units (PACM)** are presumed to contain asbestos behind heat convectors within wall pockets. The heat convectors are present within perimeter walls and will be disturbed by the project.
- **Concealed Asbestos Window Caulk** is suspected to be located behind new window components. Window components should not be impacted by the project.
 - **Room G09** contains one window assembly that will need removed within a negative pressure enclosure.
- **Exterior Surfacing (Stucco)** containing greater than 1% Chrysotile is present on the exterior face of the building behind a new EFIS layer. Current project drawings do not show this material being disturbed however it may become disturbed if new condenser lines will penetrate the exterior of the building
- **Historic Roofing System (PACM)** is presumed to contain asbestos. Presence of historic roof system or associated remnants and sealants underlying the existing membrane is unknown. Where project penetrations are required, the roof will be considered to have an asbestos containing material unless otherwise inspected or prior inspection results are available for review.

Building 55:

Zero (0) of the 56 samples collected at Building 55 during this limited **survey** were detected as asbestos-containing materials (ACM).

During this inspection, zero (0) material groups of asbestos containing materials based on the 2018 Riverfront Safety and Health Campus Asbestos Drawing are known to be present within the building.

Building 53:

Zero (0) of the 93 samples collected at Building 53 during this limited **survey** were detected as asbestos-containing materials (ACM).

During this inspection, nine (9) material groups of asbestos containing materials based on the 2018 Riverfront Safety and Health Campus Asbestos Drawing are known to be present within the building.

- **Various Floor Tiles and/or Underlying Mastic** containing greater than 1% Chrysotile are present within the building and are not shown on project drawings other than in rooms it will be impacted. Floor tile and/or underlying mastics are present within various rooms and will be impacted by the project.



- **Room GS10** contains 100 square feet of asbestos containing black mastic under 12"x12" light blue floor tile that will be impacted by the project. The tile and mastic will need removed using manual methods within a negative pressure containment.
- **Room 2S201 and 2S202** contain 200 square feet of asbestos containing black mastic under 12"x12" floor tile that will be impacted by the project. The tile and mastic will need removed using manual methods within a negative pressure containment.
- **Fibrous Brown HVAC Covering** containing greater than 1% Chrysotile is present within the building and is not show on project drawings. Asbestos containing fibrous brown HVAC covering is located in the basement and should not be impacted by the project.
- **Penetration Caulk- Black** containing greater than 1% Chrysotile is present within the building and is not show on project drawings. Asbestos containing black penetration caulk is located in the basement and should not be impacted by the project.
- **Exterior Door Caulk- White** containing greater than 1% Chrysotile is present on the exterior door systems and is not show on project drawings. Asbestos containing door caulk is located on the exterior of the building and should not be impacted by the project.
- **Debris within Crawlspace Soil** containing greater than 1% Chrysotile is present within the crawlspace and is not show on project drawings. Asbestos containing debris within the crawlspace will be impacted by the project.
 - **Room GN51** will be constructed within the crawlspace from the basement hallway. Due to construction of the new room an estimated 60 cubic feet will need to be excavated and an air- tight EPDM layer placed on the soil to create a safe working space for construction. See drawing and specifications for more detail.
- **Fire Doors (PACM)** are presumed to contain asbestos and are thought to be located throughout the building at stairwells and should not be impacted by the project.
- **Cementitious Panels within Convactor Units (PACM)** are presumed to contain asbestos behind heat convectors within wall pockets. The heat convectors are present within perimeter walls and are not thought to be disturbed by the project.
- **Concealed Asbestos Window Caulk** is suspected to be located behind new window components. Window components should not be impacted by the project.
- **Historic Roofing System (PACM)** is presumed to contain asbestos. Presence of historic roof system or associated remnants and sealants underlying the existing membrane is unknown. Where project penetrations are required, the roof will be considered to have an asbestos containing material unless otherwise inspected or prior inspection results are available for review.

Building 52:

Three (3) of the 100 samples collected at Building 52 during this limited **survey** were detected as asbestos-containing materials (ACM). The three (3) samples represent one (1) material group and will be affected by the project scope. The material group is as follows:

- **Floor Tile Mastic- Black under Asbestos 12"x12" Floor Tile- White/Beige** bulk sample results were positive, containing 6%, 7% and 4% Chrysotile asbestos. This material is in good condition. The material is located in GN29 and will be impacted by the project. One hundred and twenty (120) square feet will need removed within a negative pressure enclosure.

During this inspection, fourteen (14) material groups of asbestos containing materials based on the 2018 Riverfront Safety and Health Campus Asbestos Drawing are known to be present within the building.



- **Asbestos Pipe Insulation with associated Asbestos Mudded Fittings** are present within the building and are known ACM materials based on review of previous sample results. These materials are thought to be impacted by the project and are present in chases, wet walls and above ceiling grid. Damaged pipe insulation was noted in various rooms above the ceiling grid and should be remediated as necessary to facilitate a safe working environment.
 - **Damaged Pipe Insulation Locations**
 - Room GS09B
 - Room 2S34
 - Room 2S14
- **Various Floor Tiles and/or Underlying Mastic** containing greater than 1% Chrysotile are present within the building and are not shown on project drawings other than in rooms it will be impacted. Floor tile and/or underlying mastics are present within various rooms and will be impacted by the project.
- **Structural Caulk Between Glaze Block and Plaster- White** containing greater than 1% Chrysotile is present within the building and is not shown on project drawings in areas that it will not become impacted. Structural caulk being impacted will need to be removed within a negative pressure enclosure using manual methods.
 - **Room GN29** contains six linear feet of structural caulk that will need to be abated to facilitate for a new door to be installed. Removal shall be conducted using manual methods within a negative pressure containment.
- **Waterproofing Tar- Black** containing greater than 1% Chrysotile is present within the building and is not shown on project drawings. Asbestos containing waterproofing is located within the crawlspace and ground floor and should not be impacted by the project.
- **Debris within Crawlspace Soil** containing greater than 1% Chrysotile is present within the crawlspace and is not shown on project drawings. Asbestos containing debris within the crawlspace should not be impacted by the project.
- **Residual Insulation on Ductwork** containing greater than 1% Chrysotile is present on the ductwork on the ground floor and is not shown on project drawings. Asbestos containing insulation on ductwork should not be impacted by the project.
- **Caulk on Ductwork- Black** containing greater than 1% Chrysotile is present on the ductwork on the ground floor, Room GN39 and is not shown on project drawings. Asbestos containing insulation on ductwork should not be impacted by the project.
- **Fire Doors (PACM)** are presumed to contain asbestos and are thought to be located throughout the building at stairwells and should not be impacted by the project.
- **Cementitious Panels within Convactor Units (PACM)** are presumed to contain asbestos behind heat convectors within wall pockets. The heat convectors are present within perimeter walls and will should not be disturbed by the project.
- **Asbestos Window Caulk and Glazing** containing greater than 1% Chrysotile is assumed present on all windows and is not shown on project drawings. Asbestos containing window caulks and glazing should not be impacted by the project.
- **Transite Lab Countertops** containing greater than 1% Chrysotile is present within select labs and is not shown on project drawings. Asbestos containing countertops should not be impacted by the project.
- **Transite Wall Panels** containing greater than 1% Chrysotile is present within select rooms and is not shown on project drawings. Asbestos wall panels should not be impacted by the project. No penetrations should occur on asbestos containing wall panels. Use surface mounted conduit with an adhesive backing if necessary.



- **Transite Flu Pipe** containing greater than 1% Chrysotile is present within first floor north hallway and is not shown on project drawings. Asbestos containing flu pipe should not be impacted by the project.
- **Historic Roofing System (PACM)** is presumed to contain asbestos. Presence of historic roof system or associated remnants and sealants underlying the existing membrane is unknown. Where project penetrations are required, the roof will be considered to have an asbestos containing material unless otherwise inspected or prior inspection results are available for review.

Building 60:

Three (3) of the 33 samples collected at Building 60 during this limited **survey** were detected as asbestos-containing materials (ACM). The three (3) samples represent one (1) material group and will be affected by the project scope. The material group is as follows:

- **Floor Tile Mastic- Black under Asbestos 12"x12" Floor Tile- White/Beige** bulk sample results were positive, containing 8%, 9% and 4% Chrysotile asbestos. This material is in good condition. The material is located in Room 101A and should not be impacted by the project.

During this inspection, thirteen (13) material groups of asbestos containing materials based on the 2018 Riverfront Safety and Health Campus Asbestos Drawing are known to be present within the building.

- **Asbestos Pipe Insulation with associated Asbestos Mudded Fittings** are present within the building and are known ACM materials based on review of previous sample results. These materials are thought to not to be impacted by the project and are present in chases, wet walls and above ceiling grid. Significantly damaged pipe insulation was noted in various rooms above the ceiling grid and should be remediated as necessary to facilitate a safe working environment.
 - **Significantly Damaged Pipe Insulation Locations**
 - Hallway H101
 - Room 112
 - Room 113
 - Room 126
- **Various Floor Tiles and/or Underlying Mastic** containing greater than 1% Chrysotile are present within the building and are not shown on project drawings other than in rooms it will be impacted. Floor tile and/or underlying mastics are present within various rooms and will not be impacted by the project.
- **Black Wrap on Freon Pipes** containing greater than 1% Chrysotile is present within the building and is not shown on project drawings. Asbestos containing freon pipe is located within various rooms within the first floor and should not be impacted by the project.
- **Penetration Caulk- Black** containing greater than 1% Chrysotile is present within the building and is not shown on project drawings. Asbestos containing penetration caulk is located storage room 115 and should not be impacted by the project.
- **Debris within Crawlspace Soil** containing greater than 1% Chrysotile is present within the crawlspace and is not shown on project drawings. Asbestos containing debris within the crawlspace should not be impacted by the project.
- **Old Covering Under White Canvas on Hot Water Tank** containing greater than 1% Chrysotile is present within the mechanical room and is not shown on project drawings. Asbestos containing covering should not be impacted by the project.



- **Sewer Pipe Penetration Packing** containing greater than 1% Chrysotile is present within the crawlspace and is not show on project drawings. Asbestos containing packing on sewer pipes should not be impacted by the project.
- **Fire Doors (PACM)** are presumed to contain asbestos and are thought to be located throughout the building at stairwells and should not be impacted by the project.
- **Cementitious Panels within Convactor Units (PACM)** are presumed to contain asbestos behind heat convectors within wall pockets. The heat convectors are present within perimeter walls and will should not be disturbed by the project.
- **Asbestos Window Caulk and Glazing** containing greater than 1% Chrysotile is assumed present on all windows and is not show on project drawings. Asbestos containing window caulks and glazing should not be impacted by the project.
- **Loose Fill at Hanger Locations on Fiberglass Chilled Water Lines** containing greater than 1% Chrysotile is present within the crawlspace and is not show on project drawings. Asbestos containing hangers on chilled water fiberglass pipes should not be impacted by the project.
- **Remnant Pipe Insulation on Steam Pipes to Steam Convectors** containing greater than 1% Chrysotile is present within the crawlspace and is not show on project drawings. Asbestos containing pipe insulation on steam lines should not be impacted by the project.
- **Historic Roofing System (PACM)** is presumed to contain asbestos. Presence of historic roof system or associated remnants and sealants underlying the existing membrane is unknown. Where project penetrations are required, the roof will be considered to have an asbestos containing material unless otherwise inspected or prior inspection results are available for review.

Building 51:

Three (3) of the 51 samples collected at Building 51 during this limited survey were detected as asbestos-containing materials (ACM). The three (3) samples represent one (1) material group and will be affected by the project scope. The material group is as follows:

- **Floor Tile Mastic- Black under Asbestos 12"x12" Floor Tile- White/Beige** bulk sample results were positive, containing 8%, 9% and 6% Chrysotile asbestos. This material is in good condition. Black mastic under 12"x12" floor tile is located in Room 1A183, 1A102 and 1A123 and will be impacted by the project. A total of 570 square feet will need removed within a negative pressure enclosure using manual methods.

During this inspection, thirteen (13) material groups of asbestos containing materials based on the 2018 Riverfront Safety and Health Campus Asbestos Drawing are known to be present within the building.

- **Asbestos Pipe Insulation with associated Asbestos Mudded Fittings** are present within the building and are known ACM materials based on review of previous sample results. These materials are thought to be impacted by the project and are present in chases, wet walls and above ceiling grid.
- **Various Floor Tiles and/or Underlying Mastic** containing greater than 1% Chrysotile are present within the building and are not shown on project drawings other than in rooms it will be impacted. Floor tile and/or underlying mastics are present within various rooms and will not be impacted by the project other than where noted.
- **Penetration Caulk- Black** containing greater than 1% Chrysotile is present within the building and is not show on project drawings. Asbestos containing penetration caulk is located throughout the building and should not be impacted by the project.



- **Fire Doors (PACM)** are presumed to contain asbestos and are thought to be located throughout the building at stairwells and should not be impacted by the project.
- **Cementitious Panels within Convectur Units (PACM)** are presumed to contain asbestos behind heat convectors within wall pockets. The heat convectors are present within perimeter walls and will should not be disturbed by the project.
- **Concealed Asbestos Window Caulk** is suspected to be located behind new window components. Window components should not be impacted by the project.
- **Window Glazing- Black** containing greater than 1% Chrysotile is present within the building and is not show on project drawings. Asbestos black window glazing is located throughout the building and should not be impacted by the project.
- **Door Window Caulk- White** containing greater than 1% Chrysotile is present within the building and is not show on project drawings. Asbestos white door window caulk is located throughout the building and should not be impacted by the project.
- **Historic Roofing System (PACM)** is presumed to contain asbestos. Presence of historic roof system or associated remnants and sealants underlying the existing membrane is unknown. Where project penetrations are required, the roof will be considered to have an asbestos containing material unless otherwise inspected or prior inspection results are available for review.

Building 1:

Nine (9) of the 128 samples collected at Building 1 during this limited survey were detected as asbestos-containing materials (ACM). The nine (9) samples represent three (3) material groups and two (2) will be affected by the project scope. The material group is as follows:

- **Small Hole Wall Covering – Green** bulk sample results were positive, containing 16%, 17% and 20% Chrysotile asbestos. This material is in good condition. This material is located in Room 2C10 and will be impacted by the project. Demolition of non- asbestos components will be required to gain full access to the wall panels. This work should be conducted within a negative pressure enclosure due to disturbances of the material. A total of 720 square feet will need removed within a negative pressure enclosure using manual methods.
- **Asbestos Black Mastic- Black under Non-Asbestos Floor Tile- Blue** bulk sample results were positive, containing 6%, 6% and 7% Chrysotile asbestos. This material is in good condition. Black mastic under 12"x12" floor tile is located in Room 2C10, C102D and E303 and will be impacted by the project. A total of 1,234 square feet will need removed within a negative pressure enclosure using manual methods.
- **Window Caulk – Gray Blue** bulk sample results were positive, containing 3%, 3% and 4% Chrysotile asbestos. This material is in good condition. This material is located in Room 3C15 and will not be impacted by the project.

During this inspection, thirteen (13) material groups of asbestos containing materials based on the 2018 Riverfront Safety and Health Campus Asbestos Drawing are known to be present within the building.

- **Asbestos Pipe Insulation with associated Asbestos Mudded Fittings** are present within the building and are known ACM materials based on review of previous sample results. These materials are thought Damaged and Significantly damaged pipe insulation was noted in various



rooms above the ceiling grid and should be remediated as necessary to facilitate a safe working environment.

- **Damaged Pipe Insulation Locations**
 - Room GW12
 - Room GC03
 - Room GC17
 - Room GC17C
 - Hallway H003
 - Room 2E09
 - Room 2E13
 - Room 2C14
- **Significantly Damaged Pipe Insulation Locations**
 - Room GC11/GC12A/GC11A/GC11B
 - Room GE19
 - Room GW04
 - Room GW10
 - Room GW13
 - Hallway H107
 - Room 2E11
 - Room 2E15
- **Various Floor Tiles and/or Underlying Mastic** containing greater than 1% Chrysotile are present within the building and are not shown on project drawings other than in rooms it will be impacted. Floor tile and/or underlying mastics are present within various rooms and will not be impacted by the project other than where noted.
 - Asbestos containing 12"x12" white floor tile and underlying black mastic are located in Room 1W01 and will be impacted by the project. Asbestos tile and mastic will need to be removed using manual methods within a negative pressure enclosure. A total of 100 square feet will be removed.
- **Penetration Caulk- Black** containing greater than 1% Chrysotile is present within the building and is not shown on project drawings. Asbestos containing penetration caulk is located throughout the building and should not be impacted by the project.
- **Fire Doors (PACM)** are presumed to contain asbestos and are thought to be located throughout the building at stairwells and should not be impacted by the project.
- **Cementitious Panels within Convactor Units (PACM)** are presumed to contain asbestos behind heat convectors within wall pockets. The heat convectors are present within perimeter walls and will should not be disturbed by the project.
- **Concealed Asbestos Window Caulk** is suspected to be located behind new window components. Window components should not be impacted by the project.
- **Window Glazing- Black** containing greater than 1% Chrysotile is present within the building and is not shown on project drawings. Asbestos black window glazing is located throughout the building and should not be impacted by the project.
- **Door Window Caulk- White** containing greater than 1% Chrysotile is present within the building and is not shown on project drawings. Asbestos white door window caulk is located throughout the building and should not be impacted by the project.
- **Historic Roofing System (PACM)** is presumed to contain asbestos. Presence of historic roof system or associated remnants and sealants underlying the existing membrane is unknown.



Where project penetrations are required, the roof will be considered to have an asbestos containing material unless otherwise inspected or prior inspection results are available for review.

A summary of asbestos sampling efforts, including sample numbers, descriptions, locations, quantities, category (friable or non-friable) and analytical results are presented in the following Table 1. The full laboratory analytical reports are included in Appendix A.

TABLE 1: ASBESTOS BULK SAMPLING SUMMARY Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022							
Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-122921-1	Brown Cove Base and Associated Yellow Mastic	Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-2	Brown Cove Base and Associated Yellow Mastic	Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-3	Brown Cove Base and Associated Yellow Mastic	Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-4	12" x 12" Floor Tile - Tan with Streaks and Black Mastic	Room 312	CAT I Non-Friable	Building 18	Good	-	FT: 2% Chrysotile & Black Mastic
SH1735-122921-5	12" x 12" Floor Tile - Tan with Streaks and Black Mastic	Room 312	CAT I Non-Friable	Building 18	Good	-	FT: 2% Chrysotile & Black Mastic
SH1735-122921-6	12" x 12" Floor Tile - Tan with Streaks and Black Mastic	Room 312	CAT I Non-Friable	Building 18	Good	-	FT: 2% Chrysotile & Black Mastic
SH1735-122921-7	Fireproof Penetration Foam - Yellow	Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-8	Fireproof Penetration Foam - Yellow	Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-122921-9	Fireproof Penetration Foam - Yellow	Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-10	Fireproof Penetration Foam - Orange	Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-11	Fireproof Penetration Foam - Orange	Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-12	Fireproof Penetration Foam - Orange	Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-13	2' x 2' Ceiling Tile - White	Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-14	2' x 2' Ceiling Tile - White	Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-15	2' x 2' Ceiling Tile - White	Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-16	Interior Window Caulk - Grey	Hallway outside Room 312	CAT II Non-Friable	Building 18	Good	-	2% Chrysotile
SH1735-122921-17	Interior Window Caulk - Grey	Hallway outside Room 312	CAT II Non-Friable	Building 18	Good	-	2% Chrysotile
SH1735-122921-18	Interior Window Caulk - Grey	Hallway outside Room 312	CAT II Non-Friable	Building 18	Good	-	2% Chrysotile
SH1735-122921-19	HVAC Duct Seam Caulk - Grey	Hallway outside Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-122921-20	HVAC Duct Seam Caulk - Grey	Hallway outside Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-21	HVAC Duct Seam Caulk - Grey	Hallway outside Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-22	16" x 16" Floor Tile - Grey and Black Mastic	Hallway outside Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-23	16" x 16" Floor Tile - Grey and Black Mastic	Hallway outside Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-24	16" x 16" Floor Tile - Grey and Black Mastic	Hallway outside Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-25	Tan Cove Base and Associated Yellow Mastic	Hallway outside Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-26	Tan Cove Base and Associated Yellow Mastic	Hallway outside Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-27	Tan Cove Base and Associated Yellow Mastic	Hallway outside Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-28	Drywall and Joint Compound - White	Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-29	Drywall and Joint Compound - White	Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-30	Drywall and Joint Compound - White	Room 312	CAT II Non-Friable	Building 18	Good	-	None Detected



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-122921-31	Fireproof Penetration Caulk - Orange	Room 213	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-32	Fireproof Penetration Caulk - Orange	Room 213	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-33	Fireproof Penetration Caulk - Orange	Room 213	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-34	Brown Speckled Vinyl Floor Tile and Yellow Mastic	Hallway outside Room 213	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-35	Brown Speckled Vinyl Floor Tile and Yellow Mastic	Hallway outside Room 213	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-36	Brown Speckled Vinyl Floor Tile and Yellow Mastic	Hallway outside Room 213	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-37	Tan Cove Base and Yellow Mastic	Hallway outside Room 213	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-38	Tan Cove Base and Yellow Mastic	Hallway outside Room 213	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-39	Tan Cove Base and Yellow Mastic	Hallway outside Room 213	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-40	Firestop - Maroon	Room 119	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-41	Firestop - Maroon	Room 119	CAT II Non-Friable	Building 18	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-122921-42	Firestop - Maroon	Room 119	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-43	Pipe Insulation - Yellow	Hallway outside 119	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-44	Pipe Insulation - Yellow	Hallway outside 119	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-45	Pipe Insulation - Yellow	Hallway outside 119	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-46	9" x 9" Ceramic FT – Brown and Grey Grout	Hallway outside 119	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-47	9" x 9" Ceramic FT – Brown and Grey Grout	Hallway outside 119	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-48	9" x 9" Ceramic FT – Brown and Grey Grout	Hallway outside 119	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-49	2' x 4' Ceiling Tile - White	Room 011	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-50	2' x 4' Ceiling Tile - White	Room 011	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-51	2' x 4' Ceiling Tile - White	Room 011	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-52	12" x 12" Floor Tile – White with Tan Streaks and Yellow Mastic	Room 011	CAT II Non-Friable	Building 18	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-122921-53	12" x 12" Floor Tile – White with Tan Streaks and Yellow Mastic	Room 011	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-54	12" x 12" Floor Tile – White with Tan Streaks and Yellow Mastic	Room 011	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-55	Tan Cove Base and Brown Mastic	Room 011	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-56	Tan Cove Base and Brown Mastic	Room 011	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-57	Tan Cove Base and Brown Mastic	Room 011	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-58	Mastic Dot – Black (Hockey Puck)	Room 011	CAT II Non-Friable	Building 18	Good	-	3% Chrysotile
SH1735-122921-59	Mastic Dot – Black (Hockey Puck)	Room 011	CAT II Non-Friable	Building 18	Good	-	4% Chrysotile
SH1735-122921-60	Mastic Dot – Black (Hockey Puck)	Room 011	CAT II Non-Friable	Building 18	Good	-	3% Chrysotile
SH1735-122921-61	Pipe Dope - White	Room 011	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-62	Pipe Dope - White	Room 011	CAT II Non-Friable	Building 18	Good	-	None Detected



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-122921-63	Pipe Dope - White	Room 011	CAT II Non-Friable	Building 18	Good	-	None Detected
SH1735-122921-64	12" x 12" Floor Tile – White with Streaks and Yellow Mastic	Room 118	CAT II Non-Friable	Building 3T	Good	-	None Detected
SH1735-122921-65	12" x 12" Floor Tile – White with Streaks and Yellow Mastic	Room 118	CAT II Non-Friable	Building 3T	Good	-	None Detected
SH1735-122921-66	12" x 12" Floor Tile – White with Streaks and Yellow Mastic	Room 118	CAT II Non-Friable	Building 3T	Good	-	None Detected
SH1735-122921-67	Tan Cove Base and Yellow Mastic	Room 118	CAT II Non-Friable	Building 3T	Good	-	None Detected
SH1735-122921-68	Tan Cove Base and Yellow Mastic	Room 118	CAT II Non-Friable	Building 3T	Good	-	None Detected
SH1735-122921-69	Tan Cove Base and Yellow Mastic	Room 118	CAT II Non-Friable	Building 3T	Good	-	None Detected
SH1735-122921-70	2' x 4' Ceiling Tile - White	Room 118	CAT II Non-Friable	Building 3T	Good	-	None Detected
SH1735-122921-71	2' x 4' Ceiling Tile - White	Room 118	CAT II Non-Friable	Building 3T	Good	-	None Detected
SH1735-122921-72	2' x 4' Ceiling Tile - White	Room 118	CAT II Non-Friable	Building 3T	Good	-	None Detected



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-122921-73	Fireproof Penetration Caulk - Orange	Room 118	CAT II Non-Friable	Building 3T	Good	-	None Detected
SH1735-122921-74	Fireproof Penetration Caulk - Orange	Room 118	CAT II Non-Friable	Building 3T	Good	-	None Detected
SH1735-122921-75	Fireproof Penetration Caulk - Orange	Room 118	CAT II Non-Friable	Building 3T	Good	-	None Detected
SH1735-122921-76	Fireproofing caulk - yellow	Bldg 3 - Room 117A	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-122921-77	Fireproofing caulk - yellow	Bldg 3 - Room 117A	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-122921-78	Fireproofing caulk - yellow	Bldg 3 - Room 117A	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-122921-79	12x12 White with brown streaks FT w/ yellow mastic	Bldg 3 - Room 117A	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-122921-80	12x12 White with brown streaks FT w/ yellow mastic	Bldg 3 - Room 117	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-122921-81	12x12 White with brown streaks FT w/ yellow mastic	Bldg 3 - Room 117	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-122921-82	Fireproof caulk - Orange	Bldg 3 - Room 117	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-122921-83	Fireproof caulk - Orange	Bldg 3 - Room 117	CAT II Non-Friable	Building 3	Good	-	None Detected



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-122921-84	Fireproof caulk - Orange	Bldg 3 - Room 117	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-122921-85	Brown Cove base and yellow mastic	Bldg 3 - Room 117A	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-122921-86	Brown Cove base and yellow mastic	Bldg 3 - Room 117A	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-122921-87	Brown Cove base and yellow mastic	Bldg 3 - Room 117A	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-122921-88	Tan Cove base and yellow mastic	Bldg 3 - Room 117	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-122921-89	Tan Cove base and yellow mastic	Bldg 3 - Room 117	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-122921-90	Tan Cove base and yellow mastic	Bldg 3 - Room 117	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-122921-91	Firestop - Maroon	Bldg 3 - Room 117	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-122921-92	Firestop - Maroon	Bldg 3 - Room 117	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-122921-93	Firestop - Maroon	Bldg 3 - Room 117	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-1	Troweled on penetration grout - White	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-010422-2	Troweled on penetration grout - White	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-3	Troweled on penetration grout - White	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-4	12x12 Beige FT with Brown Mastic	Bldg 3 - Room B025	CAT I Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-5	12x12 Beige FT with Brown Mastic	Bldg 3 - Room B025	CAT I Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-6	12x12 Beige FT with Brown Mastic	Bldg 3 - Room B025	CAT I Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-7	Tan Cove Base and Tan Mastic	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-8	Tan Cove Base and Tan Mastic	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-9	Tan Cove Base and Tan Mastic	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-10	Fire Penetration Caulk - Red	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-11	Fire Penetration Caulk - Red	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-12	Fire Penetration Caulk - Red	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-010422-13	Penetration Caulk - White	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-14	Penetration Caulk - White	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-15	Penetration Caulk - White	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-16	Sink Caulk - White	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-17	Sink Caulk - White	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-18	Sink Caulk - White	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-19	Firestop - Maroon	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-20	Firestop - Maroon	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-21	Firestop - Maroon	Bldg 3 - Room B025	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-22	2x4 CT - White	Bldg 3 - Room 224	Friable	Building 3	Good	-	None Detected
SH1735-010422-23	2x4 CT - White	Bldg 3 - Room 224	Friable	Building 3	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-010422-24	2x4 CT - White	Bldg 3 - Room 224	Friable	Building 3	Good	-	None Detected
SH1735-010422-25	Burgundy Sheet Flooring	Bldg 3 - Room 224	Friable	Building 3	Good	-	None Detected
SH1735-010422-26	Burgundy Sheet Flooring	Bldg 3 - Room 224	Friable	Building 3	Good	-	None Detected
SH1735-010422-27	Burgundy Sheet Flooring	Bldg 3 - Room 224	Friable	Building 3	Good	-	None Detected
SH1735-010422-28	Black Felt over Wood	Bldg 3 - Room 224	Friable	Building 3	Good	-	None Detected
SH1735-010422-29	Black Felt over Wood	Bldg 3 - Room 224	Friable	Building 3	Good	-	None Detected
SH1735-010422-30	Black Felt over Wood	Bldg 3 - Room 224	Friable	Building 3	Good	-	None Detected
SH1735-010422-31	Burgundy Floor Caulk	Bldg 3 - Room 224	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-32	Burgundy Floor Caulk	Bldg 3 - Room 224	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-33	Burgundy Floor Caulk	Bldg 3 - Room 224	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-34	Drywall - White	Bldg 3 - Room 224	CAT II Non-Friable	Building 3	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-010422-35	Drywall - White	Bldg 3 - Room 224	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-36	Drywall - White	Bldg 3 - Room 224	CAT II Non-Friable	Building 3	Good	-	None Detected
SH1735-010422-37	Black Cove Base and Yellow Mastic	Bldg 2 - Room 209	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-38	Black Cove Base and Yellow Mastic	Bldg 2 - Room 209	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-39	Black Cove Base and Yellow Mastic	Bldg 2 - Room 209	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-40	2x2 CT - White	Bldg 2 - Room 209	Friable	Building 2	Good	-	None Detected
SH1735-010422-41	2x2 CT - White	Bldg 2 - Room 209	Friable	Building 2	Good	-	None Detected
SH1735-010422-42	2x2 CT - White	Bldg 2 - Room 209	Friable	Building 2	Good	-	None Detected
SH1735-010422-43	Yellow Adhesive and 12x12 Blue VFT	Bldg 2 - Room 209	CAT I Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-44	Yellow Adhesive and 12x12 Blue VFT	Bldg 2 - Room 209	CAT I Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-45	Yellow Adhesive and 12x12 Blue VFT	Bldg 2 - Room 209	CAT I Non-Friable	Building 2	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-010422-46	Fire Penetration Caulk - Red	Bldg 2 - Room 209	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-47	Fire Penetration Caulk - Red	Bldg 2 - Room 209	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-48	Fire Penetration Caulk - Red	Bldg 2 - Room 209	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-49	Black Felt over Wood	Bldg 2 - Room 308	Friable	Building 2	Good	-	None Detected
SH1735-010422-50	Black Felt over Wood	Bldg 2 - Room 308	Friable	Building 2	Good	-	None Detected
SH1735-010422-51	Black Felt over Wood	Bldg 2 - Room 111	Friable	Building 2	Good	-	None Detected
SH1735-010422-52	Yellow Adhesive from Blue Multicolored Carpet	Bldg 2 - Room 308	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-53	Yellow Adhesive from Blue Multicolored Carpet	Bldg 2 - Room 308	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-54	Yellow Adhesive from Blue Multicolored Carpet	Bldg 2 - Room 308	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-55	Pipe dope - Blue	Bldg 2 - Room 308	CAT II Non-Friable	Building 2	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-010422-56	Pipe dope - Blue	Bldg 2 - Room 308	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-57	Pipe dope - Blue	Bldg 2 - Room 308	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-58	Yellow Adhesive on Blue Carpet Cove Base	Bldg 2 - Room 308	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-59	Yellow Adhesive on Blue Carpet Cove Base	Bldg 2 - Room 308	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-60	Yellow Adhesive on Blue Carpet Cove Base	Bldg 2 - Room 111	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-61	2x2 CT - White	Bldg 2 - Room 308	Friable	Building 2	Good	-	None Detected
SH1735-010422-62	2x2 CT - White	Bldg 2 - Room 308	Friable	Building 2	Good	-	None Detected
SH1735-010422-63	2x2 CT - White	Bldg 2 - Room 308	Friable	Building 2	Good	-	None Detected
SH1735-010422-64	Tan Penetration Caulk	Bldg 2 - Room 308	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-65	Tan Penetration Caulk	Bldg 2 - Room 308	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-66	Tan Penetration Caulk	Bldg 2 - Room 308	CAT II Non-Friable	Building 2	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-010422-67	Wall to Ceiling Caulk	Bldg 2 - Room 308	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-68	Wall to Ceiling Caulk	Bldg 2 - Room 308	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-69	Wall to Ceiling Caulk	Bldg 2 - Room 308	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-70	Fireproof Penetration Caulk - Red	Bldg 2 - Room 111	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-71	Fireproof Penetration Caulk - Red	Bldg 2 - Room 111	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-72	Fireproof Penetration Caulk - Red	Bldg 2 - Room 111	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-73	FT unknown size	Bldg 2 - Room 111	CAT I Non-Friable	Building 2	Good	-	Floor Tile-2% Chrysotile Black Mastic-ND
SH1735-010422-74	FT unknown size	Bldg 2 - Room 111	CAT I Non-Friable	Building 2	Good	-	Floor Tile-2% Chrysotile Black Mastic-ND
SH1735-010422-75	FT unknown size	Bldg 2 - Room 111	CAT I Non-Friable	Building 2	Good	-	Floor Tile-2% Chrysotile Black Mastic-ND



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-010422-76	Grey Carpet Mastic	Bldg 2 - Room 111	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-77	Grey Carpet Mastic	Bldg 2 - Room 111	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-78	Grey Carpet Mastic	Bldg 2 - Room 111	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-79	Window frame caulk - White	Bldg 2 - Room 111	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-80	Window frame caulk - White	Bldg 2 - Room 111	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-81	Window frame caulk - White	Bldg 2 - Room 111	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-82	Fire Penetration Caulk - Red	Bldg 2 - Room G04	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-83	Fire Penetration Caulk - Red	Bldg 2 - Room G04	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-84	Fire Penetration Caulk - Red	Bldg 2 - Room G04	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-85	Penetration Grout - Gray	Bldg 2 - Room G04	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-010422-86	Penetration Grout - Gray	Bldg 2 - Room G04	CAT II Non-Friable	Building 2	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-010422-87	Penetration Grout - Gray	Bldg 2 - Room G04	CAT II Non-Friable	Building 2	Good	-	None Detected
SH1735-0152022-1	Penetration Caulk - White	Bldg 56 - Room 3A122	CAT II Non-Friable	Building 56	Good	-	None Detected
SH1735-0152022-2	Penetration Caulk - White	Bldg 56 - Room 3A122	CAT II Non-Friable	Building 56	Good	-	None Detected
SH1735-0152022-3	Penetration Caulk - White	Bldg 56 - Room 3A122	CAT II Non-Friable	Building 56	Good	-	None Detected
SH1735-0152022-4	Grey Cove base and Gray Mastic	Bldg 56 - Room 3A122	CAT II Non-Friable	Building 56	Good	-	None Detected
SH1735-0152022-5	Grey Cove base and Gray Mastic	Bldg 56 - Room 3A122	CAT II Non-Friable	Building 56	Good	-	None Detected
SH1735-0152022-6	Grey Cove base and Gray Mastic	Bldg 56 - Room 3A122	CAT II Non-Friable	Building 56	Good	-	None Detected
SH1735-0152022-7	Firestop - Red	Bldg 56 - Room 3A122	CAT II Non-Friable	Building 56	Good	-	None Detected
SH1735-0152022-8	Firestop - Red	Bldg 56 - Room 3A122	CAT II Non-Friable	Building 56	Good	-	None Detected
SH1735-0152022-9	Firestop - Red	Bldg 56 - Room 3A122	CAT II Non-Friable	Building 56	Good	-	None Detected
SH1735-0152022-10	Fire penetration caulk - Red	Bldg 56 - Room 3A122	CAT II Non-Friable	Building 56	Good	-	None Detected



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-0152022-11	Fire penetration caulk - Red	Bldg 56 - Room 3A122	CAT II Non-Friable	Building 56	Good	-	None Detected
SH1735-0152022-12	Fire penetration caulk - Red	Bldg 56 - Room 3A122	CAT II Non-Friable	Building 56	Good	-	None Detected
SH1735-0152022-13	Expansion Joint Compound - White	Bldg 56 - Room B1-105	CAT II Non-Friable	Building 56	Good	-	None Detected
SH1735-0152022-14	Expansion Joint Compound - White	Bldg 56 - Room B1-105	CAT II Non-Friable	Building 56	Good	-	None Detected
SH1735-0152022-15	Expansion Joint Compound - White	Bldg 56 - Room B1-105	CAT II Non-Friable	Building 56	Good	-	None Detected
SH1735-0152022-16	Black Cove Base	Bldg 24 - Room GA02A	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-17	Black Cove Base	Bldg 24 - Room GA02A	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-18	Black Cove Base	Bldg 24 - Room GA02A	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-19	Yellow mastic associated with Black Cove Base	Bldg 24 - Room GA02A	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-20	Yellow mastic associated with Black Cove Base	Bldg 24 - Room GA02A	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-21	Yellow mastic associated with Black Cove Base	Bldg 24 - Room GA02A	CAT II Non-Friable	Building 24	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-0152022-22	12x12 Brown FT with Streaks and brown mastic	Bldg 24 - Room GA02A	CAT I Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-23	12x12 Brown FT with Streaks and brown mastic	Bldg 24 - Room GA02A	CAT I Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-24	12x12 Brown FT with Streaks and brown mastic	Bldg 24 - Room GA02A	CAT I Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-25	2x4 CT-White	Bldg 24 - Room GA02A	Friable	Building 24	Good	-	None Detected
SH1735-0152022-26	2x4 CT-White	Bldg 24 - Room GA02A	Friable	Building 24	Good	-	None Detected
SH1735-0152022-27	2x4 CT-White	Bldg 24 - Room GA02A	Friable	Building 24	Good	-	None Detected
SH1735-0152022-28	Pipe Dope - White	Bldg 24 - Room GA02A	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-29	Pipe Dope - White	Bldg 24 - Room GA02A	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-30	Pipe Dope - White	Bldg 24 - Room GA02A	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-31	Penetration Grout - Grey	Bldg 24 - Room 114C	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-32	Penetration Grout - Grey	Bldg 24 - Room 114C	CAT II Non-Friable	Building 24	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-0152022-33	Penetration Grout - Grey	Bldg 24 - Room 114C	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-34	Fire Penetration Caulk - Red	Bldg 24 - Room 114C	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-35	Fire Penetration Caulk - Red	Bldg 24 - Room 114C	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-36	Fire Penetration Caulk - Red	Bldg 24 - Room 114C	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-37	Fire Penetration Foam - Red	Bldg 24 - Room 114C	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-38	Fire Penetration Foam - Red	Bldg 24 - Room 114C	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-39	Fire Penetration Foam - Red	Bldg 24 - Room 114C	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-40	Black Cove Base and Yellow Mastic	Bldg 24 - Room 114B	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-41	Black Cove Base and Yellow Mastic	Bldg 24 - Room 114B	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-42	Black Cove Base and Yellow Mastic	Bldg 24 - Room 114B	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-43	2x4 CT-White	Bldg 24 - Room 114B	Friable	Building 24	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-0152022-44	2x4 CT-White	Bldg 24 - Room 114B	Friable	Building 24	Good	-	None Detected
SH1735-0152022-45	2x4 CT-White	Bldg 24 - Room 114B	Friable	Building 24	Good	-	None Detected
SH1735-0152022-46	Window Caulk - Clear	Bldg 24 - Room 114B	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-47	Window Caulk - Clear	Bldg 24 - Room 114B	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-48	Window Caulk - Clear	Bldg 24 - Room 114B	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-49	Window Caulk - White	Bldg 24 - Room 114B	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-50	Window Caulk - White	Bldg 24 - Room 114B	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-51	Window Caulk - White	Bldg 24 - Room 114B	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-52	Yellow Mastic associated with Blue Carpet	Bldg 24 - Room 114B	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-53	Yellow Mastic associated with Blue Carpet	Bldg 24 - Room 114B	CAT II Non-Friable	Building 24	Good	-	None Detected
SH1735-0152022-54	Yellow Mastic associated with Blue Carpet	Bldg 24 - Room 114B	CAT II Non-Friable	Building 24	Good	-	None Detected



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SH1735-0152022-55	2x4 CT-White	Bldg 1 - Room 2C10	Friable	Building 1	Good	-	None Detected
SH1735-0152022-56	2x4 CT-White	Bldg 1 - Room 2C10	Friable	Building 1	Good	-	None Detected
SH1735-0152022-57	2x4 CT-White	Bldg 1 - Room 2C10	Friable	Building 1	Good	-	None Detected
SH1735-0152022-58	Large Hole Wall Covering - Green	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-59	Large Hole Wall Covering - Green	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-60	Large Hole Wall Covering - Green	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-61	Small Hole Wall Covering - Green	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	16% Chrysotile
SH1735-0152022-62	Small Hole Wall Covering - Green	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	17% Chrysotile
SH1735-0152022-63	Small Hole Wall Covering - Green	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	20% Chrysotile
SH1735-0152022-64	Cove Base Mastic Brown	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-65	Cove Base Mastic Brown	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	None Detected



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-0152022-66	Cove Base Mastic Brown	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-67	Window Caulk - Dark Grey	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-68	Window Caulk - Dark Grey	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-69	Window Caulk - Dark Grey	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-70	Blue Floor Tile and Black Mastic	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	Floor Tile- None Detected Mastic- 6% Chrysotile
SH1735-0152022-71	Blue Floor Tile and Black Mastic	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	Floor Tile- None Detected Mastic- 7% Chrysotile
SH1735-0152022-72	Blue Floor Tile and Black Mastic	Bldg 1 - Room 2C10	CAT I Non-Friable	Building 1	Good	-	Floor Tile- None Detected Mastic- 6% Chrysotile
SH1735-0152022-73	Grey Floor Tile and Black Mastic	Bldg 1 - Room 2C10	CAT I Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-74	Grey Floor Tile and Black Mastic	Bldg 1 - Room 2C10	CAT I Non-Friable	Building 1	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-0152022-75	Grey Floor Tile and Black Mastic	Bldg 1 - Room 2C10	CAT I Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-76	Black Mastic under Raised Floor	Bldg 1 - Room 2C10	CAT I Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-77	Black Mastic under Raised Floor	Bldg 1 - Room 2C10	CAT I Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-78	Black Mastic under Raised Floor	Bldg 1 - Room 2C10	CAT I Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-79	Black Cove Base	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-80	Black Cove Base	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-81	Black Cove Base	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-82	Grey Cove Base	Bldg 1 - Room 2C10	CAT II Non-Friable	Building 1	Good	-	Not Submitted
SH1735-0152022-83	Grey Cove Base	Bldg 1 - Room E303	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-84	Grey Cove Base	Bldg 1 - Room E303	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-85	Grey Cove Base	Bldg 1 - Room E303	CAT II Non-Friable	Building 1	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-0152022-86	Black Mastic	Bldg 1 - Room E303	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-87	Black Mastic	Bldg 1 - Room E303	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-88	Black Mastic	Bldg 1 - Room E303	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-0152022-89	White sink soundproofing	Bldg 2 - Room 209	CAT II Non-Friable	Building 2	Good	-	3% Chrysotile
SH1735-0152022-90	White sink soundproofing	Bldg 2 - Room 209	CAT II Non-Friable	Building 2	Good	-	4% Chrysotile
SH1735-0152022-91	White sink soundproofing	Bldg 2 - Room 209	CAT II Non-Friable	Building 2	Good	-	4% Chrysotile
SH1735-01062022-1	12x12 White w/ Specs with Yellow Mastic	Bldg 1 - 3C14A	CAT I Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-2	12x12 White w/ Specs with Yellow Mastic	Bldg 1 - 3C14A	CAT I Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-3	12x12 White w/ Specs with Yellow Mastic	Bldg 1 - 3C14A	CAT I Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-4	Firestop - Red	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-5	Firestop - Red	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01062022-6	Firestop - Red	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-7	Fire Penetration Caulk - Light Red	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-8	Fire Penetration Caulk - Light Red	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-9	Fire Penetration Caulk - Light Red	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-10	Wall Penetration Caulk - Dark Red	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-11	Wall Penetration Caulk - Dark Red	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-12	Wall Penetration Caulk - Dark Red	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-13	Fire Penetration Caulk - Red (Oily)	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-14	Fire Penetration Caulk - Red (Oily)	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-15	Fire Penetration Caulk - Red (Oily)	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01062022-16	Fire Penetration Caulk - Red (Dry)	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-17	Fire Penetration Caulk - Red (Dry)	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-18	Fire Penetration Caulk - Red (Dry)	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-19	Black Cove Base and Yellow Mastic	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-20	Black Cove Base and Yellow Mastic	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-21	Black Cove Base and Yellow Mastic	Bldg 1 - 3C14A	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-22	Wall mastic - Tan	Bldg 25 - 113A	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01062022-23	Wall mastic - Tan	Bldg 25 - 113A	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-24	Wall mastic - Tan	Bldg 25 - 113A	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-25	12x12 Floor Tile - Grey	Bldg 25 - 113A	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-26	12x12 Floor Tile - Grey	Bldg 25 - 113A	CAT I Non-Friable	Building 25	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01062022-27	12x12 Floor Tile - Grey	Bldg 25 - 113A	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-28	Yellow Mastic associated with Grey FT	Bldg 25 - 113A	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-29	Yellow Mastic associated with Grey FT	Bldg 25 - 113A	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-30	Yellow Mastic associated with Grey FT	Bldg 25 - 113A	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-31	Floor paper backing to FT - Yellow	Bldg 25 - 113A	Friable	Building 25	Good	-	2% Chrysotile
SH1735-01062022-32	Floor paper backing to FT - Yellow	Bldg 25 - 113A	Friable	Building 25	Good	-	2% Chrysotile
SH1735-01062022-33	Floor paper backing to FT - Yellow	Bldg 25 - 113A	Friable	Building 25	Good	-	2% Chrysotile
SH1735-01062022-34	FT Adhesive - White	Bldg 25 - 113A	CAT I Non-Friable	Building 25	Good	-	2% Chrysotile
SH1735-01062022-35	FT Adhesive - White	Bldg 25 - 113A	CAT I Non-Friable	Building 25	Good	-	2% Chrysotile
SH1735-01062022-36	FT Adhesive - White	Bldg 25 - 113A	CAT I Non-Friable	Building 25	Good	-	2% Chrysotile
SH1735-01062022-37	Black Mastic	Bldg 25 - 113A	CAT I Non-Friable	Building 25	Good	-	5% Chrysotile



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01062022-38	Black Mastic	Bldg 25 - 113A	CAT I Non-Friable	Building 25	Good	-	6% Chrysotile
SH1735-01062022-39	Black Mastic	Bldg 25 - 113A	CAT I Non-Friable	Building 25	Good	-	2% Chrysotile
SH1735-01062022-40	2x4 CT - White	Bldg 25 - 113A	Friable	Building 25	Good	-	None Detected
SH1735-01062022-41	2x4 CT - White	Bldg 25 - 113A	Friable	Building 25	Good	-	None Detected
SH1735-01062022-42	2x4 CT - White	Bldg 25 - 113	Friable	Building 25	Good	-	None Detected
SH1735-01062022-43	Grey HVAC Duct Seam Sealant	Bldg 25 - 113A	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-44	Grey HVAC Duct Seam Sealant	Bldg 25 - 113A	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-45	Grey HVAC Duct Seam Sealant	Bldg 25 - 113A	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-46	Wood grain Cove base	Bldg 25 - 113	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-47	Wood grain Cove base	Bldg 25 - 113	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-48	Wood grain Cove base	Bldg 25 - 113	CAT II Non-Friable	Building 25	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01062022-49	Beige mastic for Wood grain Cove base	Bldg 25 - 113	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-50	Beige mastic for Wood grain Cove base	Bldg 25 - 113	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-51	Beige mastic for Wood grain Cove base	Bldg 25 - 113	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-52	Brown Cove Base	Bldg 25 - 113	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-53	Brown Cove Base	Bldg 25 - 113	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-54	Brown Cove Base	Bldg 25 - 113	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-55	2x4 CT - White	Bldg 25 - 207	Friable	Building 25	Good	-	None Detected
SH1735-01062022-56	2x4 CT - White	Bldg 25 - 207	Friable	Building 25	Good	-	None Detected
SH1735-01062022-57	2x4 CT - White	Bldg 25 - 208	Friable	Building 25	Good	-	None Detected
SH1735-01062022-58	Black Tar on wall	Bldg 25 - 207	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-59	Black Tar on wall	Bldg 25 - 207	CAT II Non-Friable	Building 25	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01062022-60	Black Tar on wall	Bldg 25 - 207	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-61	Wall Adhesive-Brown	Bldg 25 - 207	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-62	Wall Adhesive-Brown	Bldg 25 - 207	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-63	Wall Adhesive-Brown	Bldg 25 - 207	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-64	Duct Seam Sealant - Brown	Bldg 25 - 207	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-65	Duct Seam Sealant - Brown	Bldg 25 - 207	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-66	Duct Seam Sealant - Brown	Bldg 25 - 208	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-67	Duct Seam Sealant - Gray	Bldg 25 - 207	CAT II Non-Friable	Building 25	Good	-	
SH1735-01062022-68	Duct Seam Sealant - Gray	Bldg 25 - 207	CAT II Non-Friable	Building 25	Good	-	
SH1735-01062022-69	Duct Seam Sealant - Gray	Bldg 25 - 208	CAT II Non-Friable	Building 25	Good	-	
SH1735-01062022-70	Wood Grain VFT and associated Brown Mastic	Bldg 25 - 207	CAT I Non-Friable	Building 25	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01062022-71	Wood Grain VFT and associated Brown Mastic	Bldg 25 - 208	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-72	Wood Grain VFT and associated Brown Mastic	Bldg 25 - 208	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-73	Brown Cove Base and associated Pink Mastic	Bldg 25 - 208	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-74	Brown Cove Base and associated Pink Mastic	Bldg 25 - 208	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-75	Brown Cove Base and associated Pink Mastic	Bldg 25 - 208	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-76	Wall Corner Caulk - White	Bldg 25 - 307A	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-77	Wall Corner Caulk - White	Bldg 25 - 307A	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-78	Wall Corner Caulk - White	Bldg 25 - 307A	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-79	12x12 Floor Tile - White with Brown specs	Bldg 25 - 307	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-80	12x12 Floor Tile - White with Brown specs	Bldg 25 - 307	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-81	12x12 Floor Tile - White with Brown specs	Bldg 25 - 307	CAT I Non-Friable	Building 25	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01062022-82	Blue Cove Base and White Mastic	Bldg 25 - 308	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-83	Blue Cove Base and White Mastic	Bldg 25 - 308	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-84	Blue Cove Base and White Mastic	Bldg 25 - 308	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-85	Yellow Mastic associated with Blue Carpet	Bldg 25 - 308	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-86	Yellow Mastic associated with Blue Carpet	Bldg 25 - 308	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-87	Yellow Mastic associated with Blue Carpet	Bldg 25 - 308	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-88	Black Mastic under Blue Carpet	Bldg 25 - 308	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-89	Black Mastic under Blue Carpet	Bldg 25 - 308	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-90	Black Mastic under Blue Carpet	Bldg 25 - 308	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-91	Fire Penetration Caulk - Red	Bldg 25 - 307	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01062022-92	Fire Penetration Caulk - Red	Bldg 25 - 307	CAT II Non-Friable	Building 25	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01062022-93	Fire Penetration Caulk - Red	Bldg 25 - 307	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01072022-1	Terracotta Panel - Peach	Bldg 1 – GC11	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01072022-2	Terracotta Panel - Peach	Bldg 1 – GC11	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01072022-3	Terracotta Panel - Peach	Bldg 1 – GC11	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01072022-4	Terracotta Panel – Peach (Painted White)	Bldg 1 – GC11	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01072022-5	Terracotta Panel – Peach (Painted White)	Bldg 1 – GC11	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01072022-6	Terracotta Panel – Peach (Painted White)	Bldg 1 – GC11	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01072022-7	12x12 Floor Tile - White with Gray Specs	Bldg 23 – G09B	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-8	12x12 Floor Tile - White with Gray Specs	Bldg 23 – G09B	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-9	12x12 Floor Tile - White with Gray Specs	Bldg 23 – G09B	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-10	Brown Cove Base and Brown Mastic	Bldg 23 – G09B	CAT II Non-Friable	Building 23	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01072022-11	Brown Cove Base and Brown Mastic	Bldg 23 – G09B	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-12	Brown Cove Base and Brown Mastic	Bldg 23 – G09B	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-13	Window Caulk - Silver	Bldg 23 G09A	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-14	Window Caulk - Silver	Bldg 23 G09A	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-15	Window Caulk - Silver	Bldg 23 G09A	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-16	Pipe Insulation - Black	Bldg 23 G09A	Friable	Building 23	Good	-	56% Chrysotile
SH1735-01072022-17	Pipe Insulation - Black	Bldg 23 G09A	Friable	Building 23	Good	-	57% Chrysotile
SH1735-01072022-18	Pipe Insulation - Black	Bldg 23 G09A	Friable	Building 23	Good	-	60% Chrysotile
SH1735-01072022-19	Pipe Insulation (Outer Coating) - White	Bldg 23 G09A	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-20	Pipe Insulation (Outer Coating) - White	Bldg 23 G09A	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-21	Pipe Insulation (Outer Coating) - White	Bldg 23 G09A	CAT II Non-Friable	Building 23	Good	-	None Detected



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TABLE 1: ASBESTOS BULK SAMPLING SUMMARY

Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01072022-22	Pipe Insulation (Tar on outer coating) - Black	Bldg 23 G09A	CAT II Non-Friable	Building 23	Good	-	8% Chrysotile
SH1735-01072022-23	Pipe Insulation (Tar on outer coating) - Black	Bldg 23 G09A	CAT II Non-Friable	Building 23	Good	-	9% Chrysotile
SH1735-01072022-24	Pipe Insulation (Tar on outer coating) - Black	Bldg 23 G09A	CAT II Non-Friable	Building 23	Good	-	6% Chrysotile
SH1735-01072022-25	Brown Cove Base and Yellow Mastic	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-26	Brown Cove Base and Yellow Mastic	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-27	Brown Cove Base and Yellow Mastic	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-28	2x2 Ceiling Tile - White	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-29	2x2 Ceiling Tile - White	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-30	2x2 Ceiling Tile - White	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-31	Plaster Skim Coat - White	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-32	Plaster Skim Coat - White	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected



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SH1735-01072022-33	Plaster Skim Coat - White	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-34	Leveling Compound - Gray	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-35	Leveling Compound - Gray	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-36	Leveling Compound - Gray	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-37	Leveling Compound - White	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-38	Leveling Compound - White	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-39	Leveling Compound - White	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-40	12x12 Gray rubber FT and associated White Adhesive	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-41	12x12 Gray rubber FT and associated White Adhesive	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-42	12x12 Gray rubber FT and associated White Adhesive	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01072022-43	Fire Penetration Caulk - Red	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-44	Fire Penetration Caulk - Red	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-45	Fire Penetration Caulk - Red	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-46	4x4 Ceramic Wall Tile – White (Painted Light Blue)	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-47	4x4 Ceramic Wall Tile – White (Painted Light Blue)	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-48	4x4 Ceramic Wall Tile – White (Painted Light Blue)	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-49	6x6 Ceramic Wall Tile - Black	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-50	6x6 Ceramic Wall Tile - Black	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-51	6x6 Ceramic Wall Tile - Black	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-52	Ceramic Wall Tile Grout - White	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-53	Ceramic Wall Tile Grout - White	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01072022-54	Ceramic Wall Tile Grout - White	Bldg 23 G09	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-55	Sink Soundproofing - Black	Bldg 23 - 121	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-56	Sink Soundproofing - Black	Bldg 23 - 121	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-57	Sink Soundproofing - Black	Bldg 23 - 121	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-58	12x12 FT – White with Blue Specs and associated Yellow Mastic	Bldg 23 - 121	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-59	12x12 FT – White with Blue Specs and associated Yellow Mastic	Bldg 23 - 121	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-60	12x12 FT – White with Blue Specs and associated Yellow Mastic	Bldg 23 - 121	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-61	Gray Cove Base and White Mastic	Bldg 23 - 121	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-62	Gray Cove Base and White Mastic	Bldg 23 - 121	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-63	Gray Cove Base and White Mastic	Bldg 23 - 121	CAT II Non-Friable	Building 23	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01072022-64	Stainless Casework Wall Caulk - Clear	Bldg 23 - 121	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-65	Stainless Casework Wall Caulk - Clear	Bldg 23 - 121	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-66	Stainless Casework Wall Caulk - Clear	Bldg 23 - 121	CAT II Non-Friable	Building 23	Good	-	None Detected
SH1735-01072022-67	Expansion Joint Caulk - White	Bldg 55 – 1A129	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-68	Expansion Joint Caulk - White	Bldg 55 – 1A129	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-69	Expansion Joint Caulk - White	Bldg 55 – 1A129	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-70	Beige Cove Base and Gray Mastic	Bldg 55 – 1A129	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-71	Beige Cove Base and Gray Mastic	Bldg 55 – 1A129	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-72	Beige Cove Base and Gray Mastic	Bldg 55 – 1A129	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-73	Firestop - Red	Bldg 55 – 1A129	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-74	Firestop - Red	Bldg 55 – 1A129	CAT II Non-Friable	Building 55	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01072022-75	Firestop - Red	Bldg 55 – 1A129	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-76	Penetration Caulk - White	Bldg 55 – 1A129	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-77	Penetration Caulk - White	Bldg 55 – 1A129	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-78	Penetration Caulk - White	Bldg 55 – 1A129	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-79	Fire Penetration Caulk - Red	Bldg 55 – 1A129	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-80	Fire Penetration Caulk - Red	Bldg 55 – 1A129	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-81	Fire Penetration Caulk - Red	Bldg 55 – 1A129	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-82	2x4 Ceiling Tile – White with Gray Specs	Bldg 55 – Hallway outside 1A130	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-83	2x4 Ceiling Tile – White with Gray Specs	Bldg 55 – Hallway outside 1A130	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-84	2x4 Ceiling Tile – White with Gray Specs	Bldg 55 – Hallway outside 1A130	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-85	Expansion Joint Caulk - White	Bldg 55 – 1B104	CAT II Non-Friable	Building 55	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01072022-86	Expansion Joint Caulk - White	Bldg 55 – 1B104	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-87	Expansion Joint Caulk - White	Bldg 55 – 1B104	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-88	Beige Cove Base and Gray Mastic	Bldg 55 – 1B104	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-89	Beige Cove Base and Gray Mastic	Bldg 55 – 1B104	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-90	Beige Cove Base and Gray Mastic	Bldg 55 – 1B104	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-91	Penetration Caulk - White	Bldg 55 – 1B104	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-92	Penetration Caulk - White	Bldg 55 – 1B104	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-93	Penetration Caulk - White	Bldg 55 – 1B104	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-94	Penetration Caulk - White	Bldg 55 – 1C132	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-95	Penetration Caulk - White	Bldg 55 – 1C132	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-96	Penetration Caulk - White	Bldg 55 – 1C132	CAT II Non-Friable	Building 55	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01072022-97	Expansion Joint Caulk - White	Bldg 55 – 1C132	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-98	Expansion Joint Caulk - White	Bldg 55 – 1C132	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-99	Expansion Joint Caulk - White	Bldg 55 – 1C132	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-100	Tan Cove Base and Tan Mastic	Bldg 55 – 1C132	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-101	Tan Cove Base and Tan Mastic	Bldg 55 – 1C132	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-102	Tan Cove Base and Tan Mastic	Bldg 55 – 1C132	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-103	Fire Penetration Caulk - Red	Bldg 55 – 1C132	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-104	Fire Penetration Caulk - Red	Bldg 55 – 1C132	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01072022-105	Fire Penetration Caulk - Red	Bldg 55 – 1C132	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01102022-1	Mudding tape - White	Bldg 55 - 2A-136	Friable	Building 55	Good	-	None Detected
SH1735-01102022-2	Mudding tape - White	Bldg 55 - 2C-144	Friable	Building 55	Good	-	None Detected



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SH1735-01102022-3	Mudding tape - White	Bldg 55 - 3C-149	Friable	Building 55	Good	-	None Detected
SH1735-01102022-4	Joint Compound - White	Bldg 55 - 2A-136	Friable	Building 55	Good	-	None Detected
SH1735-01102022-5	Joint Compound - White	Bldg 55 - 2C-144	Friable	Building 55	Good	-	None Detected
SH1735-01102022-6	Joint Compound - White	Bldg 55 - 3C-149	Friable	Building 55	Good	-	None Detected
SH1735-01102022-7	Drywall - White	Bldg 55 - 2A-136	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01102022-8	Drywall - White	Bldg 55 - 2C-144	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01102022-9	Drywall - White	Bldg 55 - 3C-149	CAT II Non-Friable	Building 55	Good	-	None Detected
SH1735-01102022-10	Brown Cove Base and Tan Mastic	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-11	Brown Cove Base and Tan Mastic	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-12	Brown Cove Base and Tan Mastic	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-13	Joint Compound - White	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected



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SH1735-01102022-14	Joint Compound - White	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-15	Joint Compound - White	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-16	Mudding Tape - White	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-17	Mudding Tape - White	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-18	Mudding Tape - White	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-19	Drywall - White	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-20	Drywall - White	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-21	Drywall - White	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-22	2x2 CT - White	Bldg 53 Rm 2S01	Friable	Building 53	Good	-	None Detected
SH1735-01102022-23	2x2 CT - White	Bldg 53 Rm 2S01	Friable	Building 53	Good	-	None Detected
SH1735-01102022-24	2x2 CT - White	Bldg 53 Rm 2S01	Friable	Building 53	Good	-	None Detected



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SH1735-01102022-25	Mastic - Orange	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-26	Mastic - Orange	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-27	Mastic - Orange	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-28	12x12 Floor Tile – White with Blue Specs	Bldg 53 Rm 2S01	CAT I Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-29	12x12 Floor Tile – White with Blue Specs	Bldg 53 Rm 2S01	CAT I Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-30	12x12 Floor Tile – White with Blue Specs	Bldg 53 Rm 2S01	CAT I Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-31	Window Caulk - White	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-32	Window Caulk - White	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-33	Window Caulk - White	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-34	Threshold Floor Tile - Orange	Bldg 53 Rm 2S01	CAT I Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-35	Threshold Floor Tile - Orange	Bldg 53 Rm 2S01	CAT I Non-Friable	Building 53	Good	-	None Detected



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SH1735-01102022-36	Threshold Floor Tile - Orange	Bldg 53 Rm 2S01	CAT I Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-37	Base Caulk on Duct in Chase - Clear	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-38	Base Caulk on Duct in Chase - Clear	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-39	Base Caulk on Duct in Chase - Clear	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-40	Duct Sealant - Light Tan	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-41	Duct Sealant - Light Tan	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-42	Duct Sealant - Light Tan	Bldg 53 Rm 2S01	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-43	Penetration Filling around Conduit - Gray	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-44	Penetration Filling around Conduit - Gray	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-45	Penetration Filling around Conduit - Gray	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-46	Fireproofing Caulk - Red	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected



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SH1735-01102022-47	Fireproofing Caulk - Red	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-48	Fireproofing Caulk - Red	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-49	Fireproofing Caulk - Maroon	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-50	Fireproofing Caulk - Maroon	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-51	Fireproofing Caulk - Maroon	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-52	Fireproofing Caulk - Pink	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-53	Fireproofing Caulk - Pink	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-54	Fireproofing Caulk - Pink	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-55	Threshold Floor Tile - Gray	Bldg 53 Rm 2S02	CAT I Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-56	Threshold Floor Tile - Gray	Bldg 53 Rm 2S02	CAT I Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-57	Threshold Floor Tile - Gray	Bldg 53 Rm 2S02	CAT I Non-Friable	Building 53	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01102022-58	Floor Mastic - Black	Bldg 53 Rm 2S02	CAT I Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-59	Floor Mastic - Black	Bldg 53 Rm 2S02	CAT I Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-60	Floor Mastic - Black	Bldg 53 Rm 2S02	CAT I Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-61	Duct Wrap - White	Bldg 53 Rm 2S02	Friable	Building 53	Good	-	None Detected
SH1735-01102022-62	Duct Wrap - White	Bldg 53 Rm 2S02	Friable	Building 53	Good	-	None Detected
SH1735-01102022-63	Duct Wrap - White	Bldg 53 Rm 2S02	Friable	Building 53	Good	-	None Detected
SH1735-01102022-64	Caulk - White	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-65	Caulk - White	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-66	Caulk - White	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-67	Cove Base - Gray	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-68	Cove Base - Gray	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01102022-69	Cove Base - Gray	Bldg 53 Rm 2S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-70	Cove Base - Gray	Bldg 53 Rm 1S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-71	Cove Base - Gray	Bldg 53 Rm 1S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-72	Cove Base - Gray	Bldg 53 Rm 1S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-73	Penetration Caulk Hard - White	Bldg 53 Rm 1S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-74	Penetration Caulk Hard - White	Bldg 53 Rm 1S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-75	Penetration Caulk Hard - White	Bldg 53 Rm 1S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-76	Penetration Caulk - Light Pink	Bldg 53 Rm 1S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-77	Penetration Caulk - Light Pink	Bldg 53 Rm 1S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-78	Penetration Caulk - Light Pink	Bldg 53 Rm 1S02	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-79	Fireproof Caulk - Light Blue	Bldg 53 Rm GS10	CAT II Non-Friable	Building 53	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01102022-80	Fireproof Caulk - Light Blue	Bldg 53 Rm GS10	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-81	Fireproof Caulk - Light Blue	Bldg 53 Rm GS10	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-82	Fireproof Caulk - Red and Black Specs	Bldg 53 Rm GS10	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-83	Fireproof Caulk - Red and Black Specs	Bldg 53 Rm GS10	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-84	Fireproof Caulk - Red and Black Specs	Bldg 53 Rm GS10	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-85	12x12 FT - Blue	Bldg 53 Rm GS10	CAT I Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-86	12x12 FT - Blue	Bldg 53 Rm GS10	CAT I Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-87	12x12 FT - Blue	Bldg 53 Rm GS10	CAT I Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-88	Floor Mastic - Black	Bldg 53 Rm GS10	CAT I Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-89	Floor Mastic - Black	Bldg 53 Rm GS10	CAT I Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-90	Floor Mastic - Black	Bldg 53 Rm GS10	CAT I Non-Friable	Building 53	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01102022-91	Fireproof Caulk Pad - Red	Bldg 53 Rm GS10	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-92	Fireproof Caulk Pad - Red	Bldg 53 Rm GS10	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-93	Fireproof Caulk Pad - Red	Bldg 53 Rm GS10	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-94	Cove Base - Gray	Bldg 53 Rm GS10	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-95	Cove Base - Gray	Bldg 53 Rm GS10	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-96	Cove Base - Gray	Bldg 53 Rm GS10	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-97	Duct Sealant - Gray	Bldg 53 Rm GS10	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-98	Duct Sealant - Gray	Bldg 53 Rm GS10	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-99	Duct Sealant - Gray	Bldg 53 Rm GS10	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-100	Drywall - White	Bldg 53 hallway outside of rm GN45A	CAT II Non-Friable	Building 53	Good	-	None Detected
SH1735-01102022-101	Joint Compound - White	Bldg 53 hallway outside of rm GN45A	CAT II Non-Friable	Building 53	Good	-	None Detected



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01102022-102	Window Caulk - Gray	Bldg 52 Rm 2N86A	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-103	Window Caulk - Gray	Bldg 52 Rm 2N86A	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-104	Window Caulk - Gray	Bldg 52 Rm 2N86A	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-105	Floor Mastic - Yellow	Bldg 52 Rm 2N86A	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-106	Floor Mastic - Yellow	Bldg 52 Rm 2N86A	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-107	Floor Mastic - Yellow	Bldg 52 Rm 2N86A	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-108	Cove Base - Black	Bldg 52 Rm 2N86A	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-109	Cove Base - Black	Bldg 52 Rm 2N86A	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-110	Cove Base - Black	Bldg 52 Rm 2N86A	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-111	Base Cove Adhesive - Tan	Bldg 52 Rm 2N86A	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-112	Base Cove Adhesive - Tan	Bldg 52 Rm 2N86A	CAT II Non-Friable	Building 52	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01102022-113	Base Cove Adhesive - Tan	Bldg 52 Rm 2N86A	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-114	Cove Base Adhesive - Yellow	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-115	Cove Base Adhesive - Yellow	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-116	Cove Base Adhesive - Yellow	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-117	Cove Base - Dark Brown	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-118	Cove Base - Dark Brown	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-119	Cove Base - Dark Brown	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-146	12x12 FT - Brown	Bldg 52 Rm 1N82	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-120	12x12 FT - Brown	Bldg 52 Rm 1N82	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-121	12x12 FT - Brown	Bldg 52 Rm 1N82	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-122	12X12 FT - Light Blue	Bldg 52 Rm 1N82	CAT I Non-Friable	Building 52	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01102022-123	12X12 FT - Light Blue	Bldg 52 Rm 1N82	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-124	12X12 FT - Light Blue	Bldg 52 Rm 1N82	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-125	12X12 FT- White w/ Multi color specs	Bldg 52 Rm 1N82	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-126	12X12 FT- White w/ Multi color specs	Bldg 52 Rm 1N82	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-127	12X12 FT- White w/ Multi color specs	Bldg 52 Rm 1N82	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-128	Window Caulk - Gray	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-129	Window Caulk - Gray	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-130	Window Caulk - Gray	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-131	2x2 CT - White	Bldg 52 Rm 1N82	Friable	Building 52	Good	-	None Detected
SH1735-01102022-132	2x2 CT - White	Bldg 52 Rm 1N82	Friable	Building 52	Good	-	None Detected
SH1735-01102022-133	2x2 CT - White	Bldg 52 Rm 1N82	Friable	Building 52	Good	-	None Detected



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01102022-134	Fireproof Caulk - Maroon w/ Black Specs	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-135	Fireproof Caulk - Maroon w/ Black Specs	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-136	Fireproof Caulk - Maroon w/ Black Specs	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-137	Fireproof Caulk - Red	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-138	Fireproof Caulk - Red	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-139	Fireproof Caulk - Red	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-140	Pipe Dope - Red	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-141	Pipe Dope - Red	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-142	Pipe Dope - Red	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-143	Pipe Dope - White	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01102022-144	Pipe Dope - White	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01102022-145	Pipe Dope - White	Bldg 52 Rm 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01112022-1	Tar on Piping - Black	Bldg 52 - 1S33	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01112022-2	Tar on Piping - Black	Bldg 52 - 1S33	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01112022-3	Tar on Piping - Black	Bldg 52 - 1S33	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01112022-4	Brown Cove Base and Yellow Mastic	Bldg 52 - 1S33	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01112022-5	Gray Mastic associated with 16x16 Brown FT	Bldg 52 - 1S33	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01112022-6	Gray Mastic associated with 16x16 Blue FT	Bldg 52 - 1S33	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01112022-7	Gray Mastic associated with 16x16 White with Brown Spec FT	Bldg 52 - 1S33	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01112022-8	Window Caulk - Gray	Bldg 52 - 1S33	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01112022-9	Black Cove Base and Yellow Mastic	Bldg 52 - GN29	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01112022-10	Black Cove Base and Yellow Mastic	Bldg 52 - GN29	CAT II Non-Friable	Building 52	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01112022-11	Black Cove Base and Yellow Mastic	Bldg 52 - GN29	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01112022-12	Black Mastic associated with 12x12 White FT	Bldg 52 - GN29	CAT I Non-Friable	Building 52	Good	-	6% Chrysotile
SH1735-01112022-13	Black Mastic associated with 12x12 Beige FT	Bldg 52 - GN29	CAT I Non-Friable	Building 52	Good	-	7% Chrysotile
SH1735-01112022-14	Black Mastic associate with 12x12 White with Brown Specs FT	Bldg 52 - GN29	CAT I Non-Friable	Building 52	Good	-	4% Chrysotile
SH1735-01112022-15	Terracotta - Peach	Bldg 52 - GN27A	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01112022-16	Terracotta - Peach	Bldg 52 - GN27A	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01112022-17	Terracotta - Peach	Bldg 52 - GN27A	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01112022-18	Window Caulk - Gray	Bldg 52 - GN29	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01112022-19	2x4 CT - White	Bldg 52 - GN28	Friable	Building 52	Good	-	None Detected
SH1735-01112022-20	2x4 CT - White	Bldg 52 - GN28	Friable	Building 52	Good	-	None Detected
SH1735-01112022-21	2x4 CT - White	Bldg 52 - GN28	Friable	Building 52	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01112022-22	Fireproof foam - Yellow	Bldg 60 - 101A	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-23	Fireproof foam - Yellow	Bldg 60 - 101A	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-24	Fireproof foam - Yellow	Bldg 60 - 101A	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-25	Firestop - Red with Black Specs	Bldg 60 - 101A	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-26	Firestop - Red with Black Specs	Bldg 60 - 101A	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-27	Firestop - Red with Black Specs	Bldg 60 - 101A	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-28	Drywall - White	Bldg 60 - 101A	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-29	Drywall - White	Bldg 60 - 101A	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-30	Drywall - White	Bldg 60 - 101A	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-31	Black Cove Base and White Mastic	Bldg 60 - 101A	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-32	Black Cove Base and White Mastic	Bldg 60 - 101A	CAT II Non-Friable	Building 60	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01112022-33	Black Cove Base and White Mastic	Bldg 60 - 101A	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-34	12x12 White with Gray Specs FT and Black Mastic	Bldg 60 - 101A	CAT I Non-Friable	Building 60	Good	-	Tile- None Detected Mastic- 8% Chrysotile
SH1735-01112022-35	12x12 White with Gray Specs FT and Black Mastic	Bldg 60 - 101A	CAT I Non-Friable	Building 60	Good	-	Tile- None Detected Mastic- 9% Chrysotile
SH1735-01112022-36	12x12 White with Gray Specs FT and Black Mastic	Bldg 60 - 101A	CAT I Non-Friable	Building 60	Good	-	Tile- None Detected Mastic- 4% Chrysotile
SH1735-01112022-37	Brown Cove Base and Yellow Mastic	Bldg 60 - Corridor 136	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-38	Brown Cove Base and Yellow Mastic	Bldg 60 - Corridor 136	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-39	Brown Cove Base and Yellow Mastic	Bldg 60 - Corridor 136	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-40	6x6 Ceramic FT - Brown	Bldg 60 - Corridor 136	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-41	6x6 Ceramic FT - Brown	Bldg 60 - Corridor 136	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-42	6x6 Ceramic FT - Brown	Bldg 60 - Corridor 136	CAT II Non-Friable	Building 60	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01112022-43	2x2 CT - White	Bldg 60 - 102	Friable	Building 60	Good	-	None Detected
SH1735-01112022-44	2x2 CT - White	Bldg 60 - 102	Friable	Building 60	Good	-	None Detected
SH1735-01112022-45	2x2 CT - White	Bldg 60 - 102	Friable	Building 60	Good	-	None Detected
SH1735-01112022-46	6x6 Ceramic FT Grout - Black	Bldg 60 - Corridor 136	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-47	6x6 Ceramic FT Grout - Black	Bldg 60 - Corridor 136	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-48	6x6 Ceramic FT Grout - Black	Bldg 60 - Corridor 136	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-49	Firestop - Red with Black Specs	Bldg 60 - 102	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-50	Firestop - Red	Bldg 60 - 102	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-51	Brown Cove Base and Yellow Mastic	Bldg 60 - 101	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-52	Brown Cove Base and Yellow Mastic	Bldg 60 - 101	CAT II Non-Friable	Building 60	Good	-	None Detected
SH1735-01112022-53	Brown Cove Base and Yellow Mastic	Bldg 60 - 101	CAT II Non-Friable	Building 60	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01112022-54	2x2 CT - White (Cementitious)	Bldg 51 - BE111	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01112022-55	2x2 CT - White (Cementitious)	Bldg 51 - BE111	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01112022-56	2x2 CT - White (Cementitious)	Bldg 51 - BE111	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01112022-57	6' Beige Cove Base	Bldg 51 - BE111	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01112022-58	6' Beige Cove Base	Bldg 51 - BE111	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01112022-59	6' Beige Cove Base	Bldg 51 - BE110	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01112022-60	12x12 White with Gray Specs FT and Yellow Mastic	Bldg 51 - BE111	CAT I Non-Friable	Building 51	Good	-	None Detected
SH1735-01112022-61	12x12 White with Gray Specs FT and Yellow Mastic	Bldg 51 - BE111	CAT I Non-Friable	Building 51	Good	-	None Detected
SH1735-01112022-62	12x12 White with Gray Specs FT and Yellow Mastic	Bldg 51 - BE110	CAT I Non-Friable	Building 51	Good	-	None Detected
SH1735-01112022-63	2x2 CT - White (Laminate)	Bldg 51 - BE110	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01112022-64	2x2 CT - White (Laminate)	Bldg 51 - BE110	CAT II Non-Friable	Building 51	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01112022-65	2x2 CT - White (Laminate)	Bldg 51 - BE110	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-1	12x12 White with Stripes FT	Bldg 51 - 1A183	CAT I Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-2	12x12 White with Stripes FT	Bldg 51 - 1A183	CAT I Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-3	12x12 White with Stripes FT	Bldg 51 - 1A183	CAT I Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-4	Black Mastic associated with 12x12 White with Stripes FT	Bldg 51 - 1A183	CAT I Non-Friable	Building 51	Good	-	8% Chrysotile
SH1735-01122022-5	Black Mastic associated with 12x12 White with Stripes FT	Bldg 51 - 1A183	CAT I Non-Friable	Building 51	Good	-	9% Chrysotile
SH1735-01122022-6	Black Mastic associated with 12x12 White with Stripes FT	Bldg 51 - 1A183	CAT I Non-Friable	Building 51	Good	-	6% Chrysotile
SH1735-01122022-7	Tan Cove Base with Brown Mastic	Bldg 51 - 1A183	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-8	Tan Cove Base with Brown Mastic	Bldg 51 - 1A183	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-9	Tan Cove Base with Brown Mastic	Bldg 51 - 1A183	CAT II Non-Friable	Building 51	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01122022-10	Drywall Tape - White	Bldg 51 - 1A183	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-11	Drywall Tape - White	Bldg 51 - 1A183	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-12	Drywall Tape - White	Bldg 51 - 1A183	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-13	Drywall Sealant - White	Bldg 51 - 1A183	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-14	Drywall Sealant - White	Bldg 51 - 1A183	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-15	Drywall Sealant - White	Bldg 51 - 1A183	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-16	Fireproof caulk - Red with Black Spec	Bldg 51 - 1A183	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-17	12x12 White with Stripes FT	Bldg 51 - 1A102	CAT I Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-18	12x12 White with Stripes FT	Bldg 51 - 1A102	CAT I Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-19	12x12 White with Stripes FT	Bldg 51 - 1A102	CAT I Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-20	Tan Cove Base with Brown Mastic	Bldg 51 - 1A102	CAT II Non-Friable	Building 51	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01122022-21	Tan Cove Base with Brown Mastic	Bldg 51 - 1A102	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-22	Tan Cove Base with Brown Mastic	Bldg 51 - 1A102	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-23	2x2 CT - White	Bldg 51 - 1A102	Friable	Building 51	Good	-	None Detected
SH1735-01122022-24	2x2 CT - White	Bldg 51 - 1A102	Friable	Building 51	Good	-	None Detected
SH1735-01122022-25	2x2 CT - White	Bldg 51 - 1A102	Friable	Building 51	Good	-	None Detected
SH1735-01122022-26	Fireproof foam - Tan	Bldg 51 - 1A102	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-27	Fireproof Insulation - Tan	Bldg 51 - 1A102	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-28	Fireproof Insulation - Tan	Bldg 51 - 1A102	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-29	Fireproof Insulation - Tan	Bldg 51 - 1A102	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-30	Fireproof caulk - Red with Black Spec	Bldg 51 - 1A102	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-31	Drywall Tape - White	Bldg 51 - 1A102	CAT II Non-Friable	Building 51	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01122022-32	Drywall Sealant - White	Bldg 51 - 1A102	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-33	Black Mastic associated with 12x12 White with Stripes FT	Bldg 51 - 1A102	CAT I Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-34	TSI Insulation - Pink	Bldg 51 - 1A102	Friable	Building 51	Good	-	None Detected
SH1735-01122022-35	TSI Insulation - Pink	Bldg 51 - 1A102	Friable	Building 51	Good	-	None Detected
SH1735-01122022-36	TSI Insulation - Pink	Bldg 51 - 1A102	Friable	Building 51	Good	-	None Detected
SH1735-01122022-37	Tan Cove Base	Bldg 51 - 1A123	CAT II Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-38	Black Mastic associated with 12x12 White with Stripes FT	Bldg 51 - 1A123	CAT I Non-Friable	Building 51	Good	-	None Detected
SH1735-01122022-39	Gray Cove Base and Yellow Mastic	Bldg 51T - 109	CAT II Non-Friable	Building 51T	Good	-	None Detected
SH1735-01122022-40	Gray Cove Base and Yellow Mastic	Bldg 51T - 109	CAT II Non-Friable	Building 51T	Good	-	None Detected
SH1735-01122022-41	Gray Cove Base and Yellow Mastic	Bldg 51T - 109	CAT II Non-Friable	Building 51T	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01122022-42	12x12 White with Stripes FT and Yellow Mastic	Bldg 51T - 109	CAT I Non-Friable	Building 51T	Good	-	None Detected
SH1735-01122022-43	12x12 White with Stripes FT and Yellow Mastic	Bldg 51T - 109	CAT I Non-Friable	Building 51T	Good	-	None Detected
SH1735-01122022-44	12x12 White with Stripes FT and Yellow Mastic	Bldg 51T - 109	CAT I Non-Friable	Building 51T	Good	-	None Detected
SH1735-01122022-45	2x2 CT - White	Bldg 51T - 109	Friable	Building 51T	Good	-	None Detected
SH1735-01122022-46	2x2 CT - White	Bldg 51T - 109	Friable	Building 51T	Good	-	None Detected
SH1735-01122022-47	2x2 CT - White	Bldg 51T - 109	Friable	Building 51T	Good	-	None Detected
SH1735-01122022-48	12x12 Blue with Spec FT and Yellow Mastic	Bldg 51T - 109	CAT I Non-Friable	Building 51T	Good	-	None Detected
SH1735-01122022-49	12x12 Blue with Spec FT and Yellow Mastic	Bldg 51T - 109	CAT I Non-Friable	Building 51T	Good	-	None Detected
SH1735-01122022-50	12x12 Blue with Spec FT and Yellow Mastic	Bldg 51T - 109	CAT I Non-Friable	Building 51T	Good	-	None Detected
SH1735-01122022-51	Duct Seam Sealant - Gray	Bldg 51T - 109	CAT II Non-Friable	Building 51T	Good	-	None Detected
SH1735-01122022-52	Duct Seam Sealant - Gray	Bldg 51T - 109	CAT II Non-Friable	Building 51T	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01122022-53	Duct Seam Sealant - Gray	Bldg 51T - 109	CAT II Non-Friable	Building 51T	Good	-	None Detected
SH1735-01122022-54	Drywall - White	Bldg 51T - 109	CAT II Non-Friable	Building 51T	Good	-	None Detected
SH1735-01122022-55	Drywall - White	Bldg 51T - 109	CAT II Non-Friable	Building 51T	Good	-	None Detected
SH1735-01122022-56	Drywall - White	Bldg 51T - 109	CAT II Non-Friable	Building 51T	Good	-	None Detected
SH1735-01122022-57	Pipe Dope - Red	Bldg 51T - 109	CAT II Non-Friable	Building 51T	Good	-	None Detected
SH1735-01122022-58	Pipe Dope - Red	Bldg 51T - 109	CAT II Non-Friable	Building 51T	Good	-	None Detected
SH1735-01122022-59	Pipe Dope - Red	Bldg 51T - 109	CAT II Non-Friable	Building 51T	Good	-	None Detected
SH1735-01122022-60	Gray Cove Base and Tan Mastic	Bldg - 57 - 1B-139	CAT II Non-Friable	Building 57	Good	-	None Detected
SH1735-01122022-61	Gray Cove Base and Tan Mastic	Bldg - 57 - 1B-139	CAT II Non-Friable	Building 57	Good	-	None Detected
SH1735-01122022-62	Gray Cove Base and Tan Mastic	Bldg - 57 - 1B-139	CAT II Non-Friable	Building 57	Good	-	None Detected
SH1735-01122022-63	Penetration Caulk - White	Bldg - 57 - 1B-139	CAT II Non-Friable	Building 57	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01122022-64	Fireproof caulk - Red with Black Spec	Bldg - 57 - 1B-139	CAT II Non-Friable	Building 57	Good	-	None Detected
SH1735-01122022-65	Pipe Dope - White	Bldg - 57 - 1B-139	CAT II Non-Friable	Building 57	Good	-	None Detected
SH1735-01122022-66	Gray Cove Base and Tan Mastic	Bldg - 57 - 1B-120	CAT II Non-Friable	Building 57	Good	-	None Detected
SH1735-01122022-67	Penetration Caulk - Gray	Bldg - 57 - 1B-120	CAT II Non-Friable	Building 57	Good	-	None Detected
SH1735-01122022-68	Penetration Caulk - Gray	Bldg - 57 - 1B-120	CAT II Non-Friable	Building 57	Good	-	None Detected
SH1735-01122022-69	Penetration Caulk - Gray	Bldg - 57 - 1B-120	CAT II Non-Friable	Building 57	Good	-	None Detected
SH1735-01122022-70	Fireproof insulation - Tan	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected
SH1735-01122022-71	Drywall - White	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected
SH1735-01122022-72	Drywall - White	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected
SH1735-01122022-73	Drywall - White	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected
SH1735-01122022-74	Drywall Tape and Joint Compound	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01122022-75	Drywall Tape and Joint Compound	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected
SH1735-01122022-76	Drywall Tape and Joint Compound	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected
SH1735-01122022-77	Gray Cove Base and Tan Mastic	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected
SH1735-01122022-78	Gray Cove Base and Tan Mastic	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected
SH1735-01122022-79	Gray Cove Base and Tan Mastic	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected
SH1735-01122022-80	Penetration Grout - Gray	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected
SH1735-01122022-81	Penetration Grout - Gray	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected
SH1735-01122022-82	Penetration Grout - Gray	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected
SH1735-01122022-83	Pipe Coating - Black	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected
SH1735-01122022-84	Pipe Coating - Black	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected
SH1735-01122022-85	Pipe Coating - Black	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01122022-86	Wood grain RFT Adhesive - Gray	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected
SH1735-01122022-87	Wood grain RFT Adhesive - Gray	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected
SH1735-01122022-88	Wood grain RFT Adhesive - Gray	Bldg - 58 - 149	CAT II Non-Friable	Building 58	Good	-	None Detected
SH1735-01122022-89	2x4 CT - White	Bldg - 58 - 149	Friable	Building 58	Good	-	None Detected
SH1735-01122022-90	2x4 CT - White	Bldg - 58 - 149	Friable	Building 58	Good	-	None Detected
SH1735-01122022-91	2x4 CT - White	Bldg - 58 - 149	Friable	Building 58	Good	-	None Detected
SH1735-01122022-92	2x4 CT - White	Bldg 60T - 108	Friable	Building 60T	Good	-	None Detected
SH1735-01122022-93	2x4 CT - White	Bldg 60T - 108	Friable	Building 60T	Good	-	None Detected
SH1735-01122022-94	2x4 CT - White	Bldg 60T - 108	Friable	Building 60T	Good	-	None Detected
SH1735-01122022-95	Fire Penetration Caulk - Red	Bldg 60T - 108	CAT II Non-Friable	Building 60T	Good	-	None Detected
SH1735-01122022-96	Fire Penetration Caulk - Red	Bldg 60T - 108	CAT II Non-Friable	Building 60T	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01122022-97	Fire Penetration Caulk - Red	Bldg 60T - 108	CAT II Non-Friable	Building 60T	Good	-	None Detected
SH1735-01122022-98	Gray Cove Base	Bldg 60T - 108	CAT II Non-Friable	Building 60T	Good	-	None Detected
SH1735-01122022-99	Gray Cove Base	Bldg 60T - 108	CAT II Non-Friable	Building 60T	Good	-	None Detected
SH1735-01122022-100	Gray Cove Base	Bldg 60T - 108	CAT II Non-Friable	Building 60T	Good	-	None Detected
SH1735-01122022-101	12x12 Blue with Spec FT	Bldg 60T - 108	CAT I Non-Friable	Building 60T	Good	-	None Detected
SH1735-01122022-102	12x12 Blue with Spec FT	Bldg 60T - 108	CAT I Non-Friable	Building 60T	Good	-	None Detected
SH1735-01122022-103	12x12 Blue with Spec FT	Bldg 60T - 108	CAT I Non-Friable	Building 60T	Good	-	None Detected
SH1735-01122022-104	12x12 White with Spec FT	Bldg 60T - 108	CAT I Non-Friable	Building 60T	Good	-	None Detected
SH1735-01122022-105	12x12 White with Spec FT	Bldg 60T - 108	CAT I Non-Friable	Building 60T	Good	-	None Detected
SH1735-01122022-106	12x12 White with Spec FT	Bldg 60T - 108	CAT I Non-Friable	Building 60T	Good	-	None Detected
SH1735-01122022-107	Yellow Mastic associated with Gray Cove Base	Bldg 60T - 108	CAT II Non-Friable	Building 60T	Good	-	None Detected



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SH1735-01122022-108	Yellow Mastic associated with Gray Cove Base	Bldg 60T - 108	CAT II Non-Friable	Building 60T	Good	-	None Detected
SH1735-01122022-109	Yellow Mastic associated with Gray Cove Base	Bldg 60T - 108	CAT II Non-Friable	Building 60T	Good	-	None Detected
SH1735-01122022-110	Gray Cove Base and Yellow Matic	Bldg 53T - 109	CAT II Non-Friable	Building 53T	Good	-	None Detected
SH1735-01122022-111	Gray Cove Base and Yellow Matic	Bldg 53T - 109	CAT II Non-Friable	Building 53T	Good	-	None Detected
SH1735-01122022-112	Gray Cove Base and Yellow Matic	Bldg 53T - 109	CAT II Non-Friable	Building 53T	Good	-	None Detected
SH1735-01122022-113	12x12 White with Spec FT	Bldg 53T - 109	CAT I Non-Friable	Building 53T	Good	-	None Detected
SH1735-01122022-114	12x12 White with Spec FT	Bldg 53T - 109	CAT I Non-Friable	Building 53T	Good	-	None Detected
SH1735-01122022-115	12x12 White with Spec FT	Bldg 53T - 109	CAT I Non-Friable	Building 53T	Good	-	None Detected
SH1735-01122022-116	12x12 Yellow with Spec FT	Bldg 53T - 109	CAT I Non-Friable	Building 53T	Good	-	None Detected
SH1735-01122022-117	12x12 Yellow with Spec FT	Bldg 53T - 109	CAT I Non-Friable	Building 53T	Good	-	None Detected
SH1735-01122022-118	12x12 Yellow with Spec FT	Bldg 53T - 109	CAT I Non-Friable	Building 53T	Good	-	None Detected



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TABLE 1: ASBESTOS BULK SAMPLING SUMMARY

Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01122022-119	Pipe Dope - Red	Bldg 53T - 109	CAT II Non-Friable	Building 53T	Good	-	None Detected
SH1735-01122022-120	Pipe Dope - Red	Bldg 53T - 109	CAT II Non-Friable	Building 53T	Good	-	None Detected
SH1735-01122022-121	Pipe Dope - Red	Bldg 53T - 109	CAT II Non-Friable	Building 53T	Good	-	None Detected
SH1735-01122022-122	Drywall - White	Bldg 53T - 109	CAT II Non-Friable	Building 53T	Good	-	None Detected
SH1735-01122022-123	Drywall - White	Bldg 53T - 109	CAT II Non-Friable	Building 53T	Good	-	None Detected
SH1735-01122022-124	Drywall - White	Bldg 53T - 109	CAT II Non-Friable	Building 53T	Good	-	None Detected
SH1735-01132022-1	Gray Cove Base and Tan Mastic	Bldg 75 - 1B105	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-2	Gray Cove Base and Tan Mastic	Bldg 75 - 1B105	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-3	Gray Cove Base and Tan Mastic	Bldg 75 - 1B107	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-4	Drywall - White	Bldg 75 - 1B105	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-5	Drywall - White	Bldg 75 - 1B105	CAT II Non-Friable	Building 75	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01132022-6	Drywall - White	Bldg 75 - 1B107	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-7	Floor Caulk - Gray	Bldg 75 - 1B105	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-8	Floor Caulk - Gray	Bldg 75 - 1B105	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-9	Floor Caulk - Gray	Bldg 75 - 1B107	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-10	Joint Compound - White	Bldg 75 - 1B105	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-11	Joint Compound - White	Bldg 75 - 1B105	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-12	Joint Compound - White	Bldg 75 - 1B107	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-13	Penetration Grout - Gray	Bldg 75 - 1B105	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-14	Penetration Grout - Gray	Bldg 75 - 1B105	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-15	Penetration Grout - Gray	Bldg 75 - 1B107	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-16	Duct Wrap - White	Bldg 75 - 1B105	CAT II Non-Friable	Building 75	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01132022-17	Duct Wrap - White	Bldg 75 - 1B105	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-18	Duct Wrap - White	Bldg 75 - 1B107	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-19	Duct Caulk - Tan	Bldg 75 - 1B105	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-20	Duct Caulk - Tan	Bldg 75 - 1B105	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-21	Duct Caulk - Tan	Bldg 75 - 1B107	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-22	Fire Penetration Caulk - Red	Bldg 75 - 1B105	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-23	Fire Penetration Caulk - Red	Bldg 75 - 1B105	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-24	Fire Penetration Caulk - Red	Bldg 75 - 1B107	CAT II Non-Friable	Building 75	Good	-	None Detected
SH1735-01132022-25	Black Mastic	Bldg 1 - 3C14	CAT I Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-26	Black Mastic	Bldg 1 - 3C14	CAT I Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-27	Black Mastic	Bldg 1 - 3C14	CAT I Non-Friable	Building 1	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01132022-28	6x6 Ceramic Tile Grout - Gray	Bldg 1 - 3C14	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-29	6x6 Ceramic Tile Grout - Gray	Bldg 1 - 3C14	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-30	6x6 Ceramic Tile Grout - Gray	Bldg 1 - 3C14	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-31	Fire Penetration Caulk - Red	Bldg 1 - 3C14	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-32	Black Cove Base and Brown Mastic	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-33	Black Cove Base and Brown Mastic	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-34	Black Cove Base and Brown Mastic	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-35	Sink Soundproofing - Gray	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-36	Sink Soundproofing - Gray	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-37	Sink Soundproofing - Gray	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-38	12x12 Whit with Blue Spec FT	Bldg 1 - 3C15	CAT I Non-Friable	Building 1	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01132022-39	12x12 Whit with Blue Spec FT	Bldg 1 - 3C15	CAT I Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-40	12x12 Whit with Blue Spec FT	Bldg 1 - 3C15	CAT I Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-41	2x4 CT - White	Bldg 1 - 3C15	Friable	Building 1	Good	-	None Detected
SH1735-01132022-42	Lap Countertop Sealant - Black	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-43	Lap Countertop Sealant - Black	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-44	Lap Countertop Sealant - Black	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-45	Window Caulk - White	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-46	Window Caulk - White	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-47	Window Caulk - White	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-48	Window Caulk - Gray	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	3% Chrysotile
SH1735-01132022-49	Window Caulk - Gray	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	4% Chrysotile



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01132022-50	Window Caulk - Gray	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	3% Chrysotile
SH1735-01132022-51	Electrical Conduit Caulk	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-52	Electrical Conduit Caulk	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-53	Electrical Conduit Caulk	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-54	Cementitious Panel behind Convectur Unit	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-55	Cementitious Panel behind Convectur Unit	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-56	Cementitious Panel behind Convectur Unit	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-57	Duct Seam Sealant - Gray	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-58	Duct Seam Sealant - Gray	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-59	Duct Seam Sealant - Gray	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-60	12x12 Tan with Streaks FT and Tan Mastic	Bldg 1 - 1E19	CAT I Non-Friable	Building 1	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01132022-61	12x12 Tan with Streaks FT and Tan Mastic	Bldg 1 - 1E19	CAT I Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-62	12x12 Tan with Streaks FT and Tan Mastic	Bldg 1 - 1E19	CAT I Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-63	Dark Brown Cove Base and Tan Mastic	Bldg 1 - 1E19	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-64	Dark Brown Cove Base and Tan Mastic	Bldg 1 - 1E19	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-65	Dark Brown Cove Base and Tan Mastic	Bldg 1 - 1E19	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-66	Light Brown Cove Base and Tan Mastic	Bldg 1 - 1E19	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-67	Light Brown Cove Base and Tan Mastic	Bldg 1 - 1E19	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-68	Light Brown Cove Base and Tan Mastic	Bldg 1 - 1E19	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-69	Fire Penetration Caulk - Red with Black Spec	Bldg 1 - 1E19	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-70	Fire Penetration Caulk - Red	Bldg 1 - 1E19	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-71	Brick Grout - White	Bldg 1 - 1E19	CAT II Non-Friable	Building 1	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01132022-72	Brick Grout - White	Bldg 1 - 1E19	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-73	Brick Grout - White	Bldg 1 - 1E19	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-74	Joint Compound - White	Bldg 1 - 1E19	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-75	Joint Compound - White	Bldg 1 - 1E19	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-76	Joint Compound - White	Bldg 1 - 1E19	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-77	Duct Seam Sealant - Gray	Bldg 1 - C102D	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-78	Duct Seam Sealant - Gray	Bldg 1 - 1C102D	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-79	Duct Seam Sealant - Gray	Bldg 1 - 1C102D	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-80	12x12 Gray with Streaks FT and Black Mastic	Bldg 1 - 1C102D	CAT I Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-81	12x12 Gray with Streaks FT and Black Mastic	Bldg 1 - 1C102D	CAT I Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-82	12x12 Gray with Streaks FT and Black Mastic	Bldg 1 - C102D	CAT I Non-Friable	Building 1	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01132022-83	Leveling Compound - White	Bldg 1 - 1C102D	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-84	Leveling Compound - White	Bldg 1 - 1C102D	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-85	Leveling Compound - White	Bldg 1 - 1C102E	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-86	Lab Countertop - Black	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-87	Lab Countertop - Black	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-88	Lab Countertop - Black	Bldg 1 - 3C15	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-89	Cementitious Panel behind Convactor Unit	Bldg 1 - 114B	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-90	Cementitious Panel behind Convactor Unit	Bldg 1 - 114B	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01132022-91	Cementitious Panel behind Convactor Unit	Bldg 1 - 114B	CAT II Non-Friable	Building 1	Good	-	None Detected
SH1735-01142022-1	Gray Cove Base and Tan Mastic	Bldg 25 - Room 205A	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01142022-2	Gray Cove Base and Tan Mastic	Bldg 25 - Room 205A	CAT II Non-Friable	Building 25	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01142022-3	Gray Cove Base and Tan Mastic	Bldg 25 - Room 205A	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01142022-4	12x12 White FT Mastic - Yellow	Bldg 25 - Room 205A	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01142022-5	12x12 White FT Mastic - Yellow	Bldg 25 - Room 205A	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01142022-6	12x12 White FT Mastic - Yellow	Bldg 25 - Room 205A	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01142022-7	12x12 White FT	Bldg 25 - Room 205A	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01142022-8	12x12 White FT	Bldg 25 - Room 205A	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01142022-9	12x12 White FT	Bldg 25 - Room 205A	CAT I Non-Friable	Building 25	Good	-	None Detected
SH1735-01142022-10	2x4 CT - White	Bldg 25 - Room 205A	Friable	Building 25	Good	-	None Detected
SH1735-01142022-11	2x4 CT - White	Bldg 25 - Room 205A	Friable	Building 25	Good	-	None Detected
SH1735-01142022-12	2x4 CT - White	Bldg 25 - Room 205A	Friable	Building 25	Good	-	None Detected
SH1735-01142022-13	Window Caulk - Gray	Bldg 25 - Room 205A	CAT II Non-Friable	Building 25	Good	-	None Detected



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SH1735-01142022-14	Window Caulk - Gray	Bldg 25 - Room 205A	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01142022-15	Window Caulk - Gray	Bldg 25 - Room 205A	CAT II Non-Friable	Building 25	Good	-	None Detected
SH1735-01182022-1	Green Terrazzo	Bldg 52 - Room GN29	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-2	Green Terrazzo	Bldg 52 - Room GN29	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-3	Green Terrazzo	Bldg 52 - Room GN29	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-4	Gray Floor Mastic associated with 12x12 FT	Bldg 52 - Room 1N82	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-5	Gray Floor Mastic associated with 12x12 FT	Bldg 52 - Room 1N82	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-6	Gray Floor Mastic associated with 12x12 FT	Bldg 52 - Room 1N82	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-7	Door Frame Caulk - White	Bldg 52 - Room 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-8	Door Frame Caulk - White	Bldg 52 - Room 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-9	Door Frame Caulk - White	Bldg 52 - Room 1N82	CAT II Non-Friable	Building 52	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01182022-10	Penetration Caulk - White	Bldg 52 - Room 2N86A	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-11	Penetration Caulk - White	Bldg 52 - Room 2N68A	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-12	Penetration Caulk - White	Bldg 52 - Room 2N68A	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-13	Brown Cove Base	Bldg 52 - Room 2S63	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-14	Brown Cove Base	Bldg 52 - Room 2S63	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-15	Brown Cove Base	Bldg 52 - Room 2S63	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-16	Tan Adhesive associated with Brown Cove Base	Bldg 52 - Room 2S63	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-17	Tan Adhesive associated with Brown Cove Base	Bldg 52 - Room 2S63	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-18	Tan Adhesive associated with Brown Cove Base	Bldg 52 - Room 2S63	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-19	Green Terrazzo	Bldg 52 - Room 2S63	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-20	Pipe Dope - Green	Bldg 52 - Room 2S63	CAT II Non-Friable	Building 52	Good	-	None Detected



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01182022-21	Pipe Dope - Green	Bldg 52 - Room 2S63	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-22	Pipe Dope - Green	Bldg 52 - Room 2S63	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-23	Pipe Dope - Yellow	Bldg 52 - Room 2S63	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-24	Pipe Dope - Yellow	Bldg 52 - Room 2S63	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-25	Pipe Dope - Yellow	Bldg 52 - Room 2S63	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-26	Leveling Compound - Gray	Bldg 52 - Room 2S63	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-27	Leveling Compound - Gray	Bldg 52 - Room 2S63	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-28	Leveling Compound - Gray	Bldg 52 - Room 2S63	CAT II Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-29	Yellow Mastic associated 12x12 White with Spec	Bldg 52 - Room 2S63	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-30	Yellow Mastic associated 12x12 White with Spec	Bldg 52 - Room 2S63	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-31	Yellow Mastic associated 12x12 White with Spec	Bldg 52 - Room 2S63	CAT I Non-Friable	Building 52	Good	-	None Detected



PROJECT NUMBER 657-21-701JB
 PROJECT NAME JBVAMC EHRM Infrastructure Upgrade Project
 SUBMITTAL 100% Construction Documents
 SUBJECT Environmental Design Narrative

TABLE 1: ASBESTOS BULK SAMPLING SUMMARY

Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-01182022-32	12x12 White with Spec FT	Bldg 52 - Room 2S63	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-33	12x12 White with Spec FT	Bldg 52 - Room 2S63	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-01182022-34	12x12 White with Spec FT	Bldg 52 - Room 2S63	CAT I Non-Friable	Building 52	Good	-	None Detected
SH1735-031122-A1	Brown Adhesive associated with 4" Black Cove Base	Bldg 1 – Room 1W01	CAT I Non-Friable	Building 1	Good		None Detected
SH1735-031122-A2	Brown Adhesive associated with 4" Black Cove Base	Bldg 1 – Room 1W01	CAT I Non-Friable	Building 1	Good		None Detected
SH1735-031122-A3	Brown Adhesive associated with 4" Black Cove Base	Bldg 1 – Room 1W01	CAT I Non-Friable	Building 1	Good		None Detected
SH1735-031122-A4	12x12 White with Grey Streak FT and associated Black Mastic	Bldg 1 – Room 1W01	CAT I Non-Friable	Building 1	Good		3% Chrysotile (FT)
SH1735-031122-A5	12x12 White with Grey Streak FT and associated Black Mastic	Bldg 1 – Room 1W01	CAT I Non-Friable	Building 1	Good		3% Chrysotile (FT)
SH1735-031122-A6	12x12 White with Grey Streak FT and associated Black Mastic	Bldg 1 – Room 1W01	CAT I Non-Friable	Building 1	Good		2% Chrysotile (FT)



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Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-031122-A7	Black 4" Cove Base	Bldg 1 – Room 1W01	CAT I Non-Friable	Building 1	Good		None Detected
SH1735-031122-A8	Black 4" Cove Base	Bldg 1 – Room 1W01	CAT I Non-Friable	Building 1	Good		None Detected
SH1735-031122-A9	Black 4" Cove Base	Bldg 1 – Room 1W01	CAT I Non-Friable	Building 1	Good		None Detected
SH1735-031122-A10	Yellow adhesive associated with Blue Carpet	Bldg 25 – Room 313A	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A11	Yellow adhesive associated with Blue Carpet	Bldg 25 – Room 313A	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A12	Yellow adhesive associated with Blue Carpet	Bldg 25 – Room 313A	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A13	Black 6" Cove Base	Bldg 25 – Room 313A	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A14	Black 6" Cove Base	Bldg 25 – Room 313A	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A15	Black 6" Cove Base	Bldg 25 – Room 313A	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A16	Yellow Adhesive associated with Wood Grain VFT	Bldg 25 – Room 204B	CAT I Non-Friable	Building 25	Good		None Detected



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-031122-A17	Yellow Adhesive associated with Wood Grain VFT	Bldg 25 – Room 204B	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A18	Yellow Adhesive associated with Wood Grain VFT	Bldg 25 – Room 204B	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A19	4" Brown Cove Base with Beige Adhesive	Bldg 25 – Room 204B	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A20	4" Brown Cove Base with Beige Adhesive	Bldg 25 – Room 204B	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A21	4" Brown Cove Base with Beige Adhesive	Bldg 25 – Room 204B	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A23	2x4 Ceiling Tile - White	Bldg 25 – Room 204B	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A24	2x4 Ceiling Tile - White	Bldg 25 – Room 204B	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A25	2x4 Ceiling Tile - White	Bldg 25 – Room 204B	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A26	Pipe Dope - Yellow	Bldg 25 – Room 204B	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A27	Pipe Dope - Yellow	Bldg 25 – Room 204B	CAT I Non-Friable	Building 25	Good		None Detected



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TABLE 1: ASBESTOS BULK SAMPLING SUMMARY

Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
SH1735-031122-A28	Pipe Dope - Yellow	Bldg 25 – Room 204B	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A29	Gray Cove Base with Yellow	Bldg 25 – Room 117A	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A30	Gray Cove Base with Yellow	Bldg 25 – Room 117A	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A31	Gray Cove Base with Yellow	Bldg 25 – Room 117A	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A32	Brown Cove Base with Beige Adhesive	Bldg 25 – Room 117A	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A33	Yellow adhesive associated with Woodgrain VFT	Bldg 25 – Room 117A	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031122-A34	2x4 Ceiling Tile - White	Bldg 25 – Room 117A	CAT I Non-Friable	Building 25	Good		None Detected
SH1735-031422-A1	12x12 White with Brown Specs FT	Bldg 52 – Room 2N91	CAT I Non-Friable	Building 52	Good		None Detected
SH1735-031422-A2	12x12 White with Brown Specs FT	Bldg 52 – Room 2N91	CAT I Non-Friable	Building 52	Good		None Detected
SH1735-031422-A3	12x12 White with Brown Specs FT	Bldg 52 – Room 2N91	CAT I Non-Friable	Building 52	Good		None Detected
SH1735-031422-A4	4" Tan Cove Base and White	Bldg 52 – Room 2N91	CAT I Non-Friable	Building 52	Good		None Detected



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Material Description	Sample Location	Category	Homogenous Area	Condition	Quantity	Asbestos Content
	Adhesive						
SH1735-031422-A5	4" Tan Cove Base and White Adhesive	Bldg 52 – Room 2N91	CAT I Non-Friable	Building 52	Good		None Detected
SH1735-031422-A6	4" Tan Cove Base and White Adhesive	Bldg 52 – Room 2N91	CAT I Non-Friable	Building 52	Good		None Detected
SH1735-031422-A7	1"x1" Ceramic Tile – Red and Yellow	Bldg 52 – Room 2N91	CAT I Non-Friable	Building 52	Good		None Detected
SH1735-031422-A8	1"x1" Ceramic Tile – Red and Yellow	Bldg 52 – Room 2N91	CAT I Non-Friable	Building 52	Good		None Detected
SH1735-031422-A9	1"x1" Ceramic Tile – Red and Yellow	Bldg 52 – Room 2N91	CAT I Non-Friable	Building 52	Good		None Detected
SH1735-031422-A10	Vibration Caulk on FCU Bracket - Black	Bldg 52 – Room 1S54	CAT I Non-Friable	Building 52	Good		None Detected
SH1735-031422-A11	Vibration Caulk on FCU Bracket - Black	Bldg 52 – Room 1S54	CAT I Non-Friable	Building 52	Good		None Detected
SH1735-031422-A12	Vibration Caulk on FCU Bracket - Black	Bldg 52 – Room 1S54	CAT I Non-Friable	Building 52	Good		None Detected

Notes:

1) Positive ACM samples are noted in bold type.

2) An asbestos-containing material is defined as a material that contains greater than 1% asbestos.

3) A friable asbestos-containing material is a material than can be pulverized, crumbled, or reduced to powder by hand pressure. Likewise, a non-friable asbestos-containing material is a material than cannot be pulverized, crumbled, or reduced to powder by hand pressure

Lead Based Paint Results



A targeted lead inspection was performed to identify lead-based paint and/or lead-based glazing on primary substrates potentially impacted by project work. Typical component and substrate combinations sampled included drywall, plaster, and CMU walls, concrete columns and ceilings, wood and metal window components, and porcelain fixtures. An attempt was made to sample each paint color on various substrates throughout areas of The Project.

Riverfront collected lead readings from potentially impacted materials and targeted surfaces to identify the presence of lead-based paint (LBP), which is defined by the EPA as greater than or equal to 1.0 mg/cm² by surface loading (as tested by an XRF instrument). EPA/HUD compliant XRF (X-Ray Fluorescence) sampling methods, which are non-destructive, were employed for this project assessment.

It is stressed that this sampling was intended to identify the presence of lead-based paint and/or lead glazed tiles and blocks within readily accessible areas likely to become disturbed during The Project and associated with this particular project design, and not necessarily an EPA-HUD type “surface-by- surface” inspection. Readings were collected by an EPA-HUD trained Lead Inspector/Risk Assessor.

Testing locations and XRF results are contained in Appendix B.

Building 18:

A total of **63 XRF** measurements, including 3 measurements for QA/QC purposes were collected from painted surfaces and/or suspect lead-containing materials likely to be impacted by project work. Of these non-QC measurements, 0 readings are considered lead-based paint or lead containing material components.

Based on the 2018 Riverfront Safety and Health inspection, five color and substrate groups contain lead-based paint. These combinations include white on plaster wall, gray on metal door, gray concrete wall, gray brick wall and white metal rail. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead- based paint.

Building 3:

A total of **68 XRF** measurements, including 3 measurements for QA/QC purposes were collected from painted surfaces and/or suspect lead-containing materials likely to be impacted by project work. Of these non-QC measurements, 7 readings are considered lead-based paint or lead containing material components. These component and substrate combinations include white plaster ceiling, white plaster chase, white plaster wall and white metal sink. All paint was observed intact at the time of the site visit. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead- based paint.

- Room B025 contains one lead based paint white plaster wall that will be impacted by the project. The paint is in deteriorated condition and will require scraping and stabilization with two coats of encapsulant within a negative pressure enclosure. A total of 130 square feet will be impacted. One sink containing lead based paint will also be impacted and should be removed. Utilities exist on the wall that will be demolished for the project. Contractor shall install Unistrut for new equipment installation within the existing negative pressure enclosure. All work shall be conducted within a negative pressure enclosure using manual methods. All equipment demolition and Unistrut installation shall be coordinated with the general contractor.



Based on the 2018 Riverfront Safety and Health inspection, eight color and substrate groups contain lead-based paint. These combinations include white rough plaster, white plaster, green plaster, 5" ceramic wall tile, white drywall, ceramic slop sink, green drywall and blue drywall. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead-based paint.

Building 2:

A total of **69 XRF** measurements, including 3 measurements for QA/QC purposes were collected from painted surfaces and/or suspect lead-containing materials likely to be impacted by project work. Of these non-QC measurements, 18 readings are considered lead-based paint or lead containing material components. These component and substrate combinations include white decorative trim, white ceiling plaster, white plaster wall, white wood window frame, and gray wall covering. All paint was observed intact at the time of the site visit. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead-based paint.

- Room G04 contains lead based paint plaster walls and ceilings that will be impacted by the project. Two plaster walls will require demolition, one wall and the ceiling will require spot scraping and stabilization of any loose or flaking paint and workers shall remove all necessary equipment located on lead based paint walls necessary for the project. A total of 190 square feet of plaster walls will require demolition and 90 square feet total will require stabilization. One non lead drywall wall, door and frame will also need be removed. All equipment demolition shall be coordinated with the general contractor. All work shall be conducted using manual methods within a negative pressure enclosure.
- Room G03 contains lead based paint plaster walls and ceiling that will be impacted by the project. One wall and the ceiling will require spot scraping and stabilization of any loose or flaking paint and workers shall remove all necessary equipment located on lead based paint walls necessary for the project. A total of 310 square feet total will require stabilization. All equipment demolition shall be coordinated with the general contractor. Abatement contractor shall install Unistrut in locations coordinated with the general contractor to facilitate future wall attachments. All work shall be conducted using manual methods within a negative pressure enclosure. The room also contains a lead based paint metal fire sprinkler line, that should be protected as necessary.
- Room 111 contains lead based paint plaster walls and ceiling that will be impacted by the project. Plaster walls totaling 600 square feet will need to be scraped and stabilized along with one plaster ceiling totaling 260 square feet. Non asbestos and lead ceiling tile and grid, equipment, door panel and door frame will also be removed. All equipment demolition shall be coordinated with the general contractor. Abatement contractor shall install Unistrut in locations coordinated with the general contractor to facilitate future wall attachments. Remove one door and door frame system encased in lead based paint plaster wall. All work shall be conducted using manual methods within a negative pressure enclosure.
- Room 205 contains a lead based paint plaster ceiling that will be impacted by the project. Scrape and stabilize 120 square feet of lead based paint located on the plaster ceiling. Abatement contractor shall install Unistrut in locations coordinated with the general contractor to facilitate future attachments. Non asbestos and lead ceiling tile and grid and equipment will also need to be removed within the negative pressure enclosure. All equipment demolition shall be coordinated with the general contractor.



All work shall be conducted using manual methods within a negative pressure enclosure.

- Room 308 contains a lead based paint plaster wall and ceiling that will be impacted by the project. 230 square feet of lead based paint plaster ceiling will need scraped and stabilized. Non asbestos and lead ceiling tile and grid and equipment will also need to be removed. Abatement contractor shall install Unistrut in locations coordinated with the general contractor to facilitate future attachments. All equipment demolition shall be coordinated with the general contractor. All work shall be conducted using manual methods within a negative pressure enclosure.

Based on the 2018 Riverfront Safety and Health inspection, sixteen color and substrate groups contain lead- based paint. These combinations include gray plaster wall, yellow concrete wall, yellow drywall wall, yellow plaster wall and ceiling, red plaster wall, white plaster wall, white drywall, white wood wall, white metal door, green wall tile, light green wall tile, white plaster ceiling, white concrete wall and ceiling, and white metal stair rail. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead- based paint.

Building 56:

A total of **23 XRF** measurements, including 3 measurements for QA/QC purposes were collected from painted surfaces and/or suspect lead-containing materials likely to be impacted by project work. Of these non-QC measurements, 0 readings are considered lead-based paint or lead containing material components.

Based on the 2018 Riverfront Safety and Health inspection, zero color and substrate groups contain lead-based paint.

Building 57:

A total of **53 XRF** measurements, including 3 measurements for QA/QC purposes were collected from painted surfaces and/or suspect lead-containing materials likely to be impacted by project work. Of these non-QC measurements, 0 readings are considered lead-based paint or lead containing material components.

Based on the 2018 Riverfront Safety and Health inspection, zero color and substrate groups contain lead-based paint.

Building 24:

A total of **46 XRF** measurements, including 3 measurements for QA/QC purposes were collected from painted surfaces and/or suspect lead-containing materials likely to be impacted by project work. Of these non-QC measurements, 1 reading is considered lead-based paint or lead containing material components. The component and substrate combinations include blue/green on wood window frame. All paint was observed intact at the time of the site visit. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead- based paint.

Based on the 2018 Riverfront Safety and Health inspection, twenty color and substrate groups contain lead- based paint. These combinations include white plaster walls, white metal stair railing, white metal stair pan, white metal safety cage, gray metal door, blue plaster wall, white wood trim, blue wood door, gold metal knoll post, white wood door, white plaster ceiling, blue wall tile, white window trim, white stage nosing trim, white brick wall, white ceramic sink, mirror, white metal knoll post, gray metal knoll



post and white metal door. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead- based paint.

Building 1:

A total of **108 XRF** measurements, including 3 measurements for QA/QC purposes were collected from painted surfaces and/or suspect lead-containing materials likely to be impacted by project work. Of these non-QC measurements, 7 readings are considered lead-based paint or lead containing material components. The component and substrate combinations include white plaster chase, white plaster walls, white plaster ceiling, brown plaster ceiling, white wood trim, 10" tan metal pipe, white concrete ceiling, white wood window frame, white wood window sill, white metal convector cover, white metal door frame, and gray ceramic wall tiles. All paint was observed intact at the time of the site visit. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead- based paint.

- Room GC16A contains a lead based paint metal door frame that should not impact the project due to the current scope of work called out in the room.
- Room C102D contains lead based paint concrete ceiling deck that will be impacted by the project. White on concrete ceiling deck should be scraped and stabilized with two coats of encapsulation within a negative pressure enclosure. Approximately 144 square feet will be impacted.
- Room 1W01 contains lead based paint plaster ceiling deck and plaster walls that will be impacted by the project. White on plaster ceiling deck, white on plaster walls, and white on grille should be scraped and stabilized with two coats of encapsulation within a negative pressure enclosure. Approximately 100 square feet of ceiling and 230 square feet of walls will be impacted. The room also contains a lead based paint grille in the chase that should be protected as necessary.
- Room 2C10 contains lead based paint plaster ceiling deck that will be impacted by the project. White on plaster ceiling deck should be scraped and stabilized with two coats of encapsulation within a negative pressure enclosure. Approximately 500 square feet will be impacted.

Based on the 2018 Riverfront Safety and Health inspection, twenty-seven color and substrate groups contain lead- based paint. These combinations include white plaster walls, gray wall tile, white plaster ceiling, plaster wallpaper wall, tan drywall ceiling, purple drywall, blue tile wall, blue plaster wall, brown plaster wall, white tile wall, pink plaster wall, yellow tile wall, white metal door, yellow plaster wall, gray plaster wall, white drywall wall, gray concrete ceiling, tan metal door, gray metal door, green plaster wall, white wall panel, blue wall panel, white sink, white concrete wall, white concrete ceiling, yellow concrete wall and blue concrete ceiling. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead- based paint.

- Room 2C10A contains lead based painted plaster walls called out for demolition within project drawings. Green plaster walls should be demolished within a negative pressure enclosure using manual methods. Approximately 180 square feet will be impacted.
- Room 2C10 adjacent hallway contains lead based paint plaster wall that will be impacted by a new door location. Approximately 25 square feet will need removed within a negative pressure enclosure.
- Room E303 contains deteriorated brown lead based paint concrete ceiling deck that will be impacted by the project. Contaminated 2'x4' ceiling tiles and grid will be removed within a negative pressure enclosure. Following the removal of contaminated ceiling tiles, brown on



concrete ceiling deck should be scraped and stabilized with two coats of encapsulation within a negative pressure enclosure. Approximately 590 square feet will be impacted.

Building 25:

A total of **83 XRF** measurements, including 0 measurements for QA/QC purposes were collected from painted surfaces and/or suspect lead-containing materials likely to be impacted by project work. Of these non-QC measurements, 1 reading is considered lead-based paint or lead containing material components. The component and substrate combinations include yellow on plaster. All paint was observed intact at the time of the site visit. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead- based paint.

- Room 113A, wall three, contains deteriorated yellow on plaster paint that will be impacted by the project. All yellow on plaster paint, 170 square feet, within the room should be scraped and stabilized with two coats of encapsulant within a negative pressure enclosure.

Based on the 2018 Riverfront Safety and Health inspection, nine color and substrate groups contain lead-based paint. These combinations include yellow plaster walls, white plaster walls, gray metal doors, white metal doors, brown wall tiles, white drywall walls, white plaster ceilings, tan plaster walls and gray metal rails. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead- based paint.

Building 23:

A total of **29 XRF** measurements, including 0 measurements for QA/QC purposes were collected from painted surfaces and/or suspect lead-containing materials likely to be impacted by project work. Of these non-QC measurements, 4 readings are considered lead-based paint or lead containing material components. The component and substrate combinations include white on plaster wall, green on plaster ceiling, white on metal door panel and white on metal window frame. All paint was observed intact at the time of the site visit with the exception of white on plaster walls. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead- based paint. Current project plans will impact lead based paint.

- Room G09 contains lead based paint white plaster ceiling, white metal door panel and frame as well as white metal window frame that will be impacted by the project. Scrape and stabilize any loose and flaking paint from the white plaster ceiling, 70 square feet, remove the lead based paint door panel, 1 unit, and remove the lead based paint white on metal door frame, 1 unit, and associated white plaster wall, 32 square feet. The fan coil unit should also be removed due to its anchor points in the white plaster ceiling. All work should be conducted within a negative pressure containment using intact methods.
- G09A contains lead based paint white on plaster walls that will be impacted by the project. White on plaster walls is currently in a deteriorated condition and should be scraped and stabilized within the room. An estimated 300 square feet will be impacted and need remediated. Also, lead based paint exist on the plaster ceiling that may need loose and flaking paint stabilized. An estimated 70 square feet may need addressed. All work should be conducted within a negative pressure containment using intact methods.



Based on the 2018 Riverfront Safety and Health inspection, six color and substrate groups contain lead-based paint. These combinations include blue concrete walls, white plaster walls, white concrete walls, white plaster ceilings, yellow tile walls and white metal banister. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead-based paint.

Building 55:

A total of **42 XRF** measurements, including 3 measurements for QA/QC purposes were collected from painted surfaces and/or suspect lead-containing materials likely to be impacted by project work. Of these non-QC measurements, 0 readings are considered lead-based paint or lead containing material components. All paint was observed intact at the time of the site visit.

Based on the 2018 Riverfront Safety and Health inspection, fifteen color and substrate groups contain lead-based paint. The combinations include dark wall tile, light wall tile, dark ceramic floor tile, light ceramic floor tile, beige drywall wall (x-ray room), blue drywall wall (x-ray room), beige door frame (x-ray room), white wall tile, light mosaic wall tile, brown floor tile, peach drywall wall (x-ray room), pumpkin drywall wall (x-ray room), peach door frame (x-ray room), x-ray glass and peach drywall ceiling (x-ray room). No demolition or new penetrations should be made within any color and substrate combinations known to contain lead-based paint.

Building 53:

A total of **45 XRF** measurements, including 3 measurements for QA/QC purposes were collected from painted surfaces and/or suspect lead-containing materials likely to be impacted by project work. Of these non-QC measurements, 0 readings are considered lead-based paint or lead containing material components. All paint was observed intact at the time of the site visit.

Based on the 2018 Riverfront Safety and Health inspection, four color and substrate groups contain lead-based paint. The combinations include gray wall tiles, dark gray wall tiles, blue wall tiles and red wall tiles. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead-based paint.

Building 52:

A total of **133 XRF** measurements, including 6 measurements for QA/QC purposes were collected from painted surfaces and/or suspect lead-containing materials likely to be impacted by project work. Of these non-QC measurements, 4 readings are considered lead-based paint or lead containing material components. The component and substrate combinations include white ceramic sink, light green ceramic tile, dark green ceramic tile and white on metal door frame. All paint was observed intact at the time of the site visit with the exception of white on plaster walls. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead-based paint. Current project plans will impact known lead-based paint.

- The hallway outside Room GN29 contains lead based yellow glaze blocks that will be impacted by the project. Current project plans state to demolish the existing wall containing the lead blocks for a new door position. All work should be conducted within a negative pressure containment using manual methods. An estimated 32 square feet will be removed.

Based on the 2018 Riverfront Safety and Health inspection, eight color and substrate groups contain lead-based paint. These combinations include yellow brick wall, gray brick wall, yellow plaster wall, white plaster wall, green brick wall, brown metal door, white drywall wall and gray wall tile. No demolition or



new penetrations should be made within any color and substrate combinations known to contain lead-based paint.

Building 60:

A total of **21 XRF** measurements, including 0 measurements for QA/QC purposes were collected from painted surfaces and/or suspect lead-containing materials likely to be impacted by project work. Of these non-QC measurements, 2 readings are considered lead-based paint or lead containing material components. The component and substrate combinations include beige glaze block as well as brown glaze block. All materials were observed intact at the time of the site visit. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead-based paint.

Based on the 2018 Riverfront Safety and Health inspection, two color and substrate groups contain lead-based paint. These combinations include olive glaze blocks and cinnamon cove base. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead-based paint.

Building 51:

A total of **75 XRF** measurements, including 3 measurements for QA/QC purposes were collected from painted surfaces and/or suspect lead-containing materials likely to be impacted by project work. Of these non-QC measurements, 5 readings are considered lead-based paint or lead containing material components. The component and substrate combination includes beige glaze block. All materials were observed intact at the time of the site visit. Beige glaze blocks will be impacted during the demolition of one door and door frame in Room BE111. Removal shall be conducted within a negative pressure enclosure using manual methods.

Based on the 2018 Riverfront Safety and Health inspection, five color and substrate groups contain lead-based paint. These combinations include white brick wall, gray brick wall, white tile wall, gray tile wall and brown tile wall. No demolition or new penetrations should be made within any color and substrate combinations known to contain lead-based paint.

A summary of lead results for The Project is provided in Table 2 below:

TABLE 2: LEAD XRF SAMPLING SUMMARY								
Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022								
Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1251	Calibration							1.0
1252	Calibration							1.0
1253	Calibration							1.0



TABLE 2: LEAD XRF SAMPLING SUMMARY

Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1254	Building 18 – 3 rd Floor	Room 312	1	Wall	Metal	Intact	White	-0.2
1255	Building 18 – 3 rd Floor	Room 312	2	Wall	Drywall	Intact	White	-0.1
1256	Building 18 – 3 rd Floor	Room 312	3	Wall	Drywall	Intact	White	0.1
1257	Building 18 – 3 rd Floor	Room 312	4	Wall	Drywall	Intact	White	-0.2
1258	Building 18 – 3 rd Floor	Room 312		Door Frame	Metal	Intact	Brown	0.1
1259	Building 18 – 3 rd Floor	Room 312		Door Frame	Metal	Intact	White	0
1260	Building 18 – 3 rd Floor	Room 312		Door Panel	Metal	Intact	White	0
1261	Building 18 – 3 rd Floor	Hallway outside Room 312		Window Frame	Metal	Intact	Silver	-0.1
1262	Building 18 – 2 nd Floor	Room 213	1	Wall	Metal	Intact	White	0.1
1263	Building 18 – 2 nd Floor	Room 213	2	Wall	Drywall	Intact	White	0.1
1264	Building 18 – 2 nd Floor	Room 213	3	Wall	Drywall	Intact	White	0
1265	Building 18 – 2 nd Floor	Room 213	4	Wall	Drywall	Intact	White	-0.2
1266	Building 18 – 2 nd Floor	Room 213		Door Frame	Metal	Intact	White	0
1267	Building 18 – 2 nd Floor	Room 213		Door Panel	Metal	Intact	White	0
1268	Building 18 – 2 nd Floor	Room 213		Ceiling	Concrete	Intact	Grey	0
1269	Building 18 – 2 nd Floor	Hallway outside Room 213		Window Frame	Metal	Intact	Silver	0.2
1270	Building 18 – 2 nd Floor	Room 213		Ceiling	Concrete	Intact	Grey	0.6
1271	Building 18 – 1 st Floor	Room 119	1	Wall	Metal	Intact	White	-0.5



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1272	Building 18 – 1 st Floor	Room 119	2	Wall	Plaster	Intact	White	0.2
1273	Building 18 – 1 st Floor	Room 119	3	Wall	Plaster	Deteriorated	White/Green	0.2
1274	Building 18 – 1 st Floor	Room 119	4	Wall	Plaster	Deteriorated	White	-0.2
1275	Building 18 – 1 st Floor	Room 119		Door Frame	Metal	Intact	White	0
1276	Building 18 – 1 st Floor	Room 119		Door Panel	Metal	Intact	White	0
1277	Building 18 – 1 st Floor	Room 119		Ceiling	Concrete	Intact	Grey	0.3
1278	Building 18 – 1 st Floor	Room 119		FA System Pipe	Metal	Intact	Red	0.2
1279	Building 18 – 1 st Floor	Hallway outside Room 119		9" x 9" Floor Tile	Ceramic	Intact	Brown	0.3
1280	Building 18 – G Floor	Room 011	1	Wall	Plaster	Intact	White	-0.1
1281	Building 18 – G Floor	Room 011	2	Wall	Plaster	Intact	White	0
1282	Building 18 – G Floor	Room 011	3	Wall	Plaster	Intact	White	0.5
1283	Building 18 – G Floor	Room 011	4	Wall	Plaster	Intact	White	0
1284	Building 18 – G Floor	Room 011		Ceiling	Concrete	Intact	Grey	0.3
1285	Building 18 – G Floor	Room 011		Door Frame	Metal	Intact	White	0.1
1286	Building 18 – G Floor	Room 011		Door Panel	Wood	Intact	Stained	0
1287	Building 18 – G Floor	Room 011		Wall	Drywall	Intact	White	-0.1
1288	Building 18 – G Floor	Room 011		Door Frame	Metal	Intact	White	-0.1
1289	Building 18 – G Floor	Room 011		Door Panel	Wood	Intact	White	0



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1290	Building 18 – G Floor	Room 011	4	Wall	Drywall	Intact	White	0
1291	Building 3T	Room 118	1	Wall	Partition	Intact	White	0.1
1292	Building 3T	Room 118	2	Wall	Partition	Intact	White	0.1
1293	Building 3T	Room 118	3	Wall	Partition	Intact	White	0
1294	Building 3T	Room 118	4	Wall	Partition	Intact	White	0
1295	Building 3T	Room 118		Door Frame	Metal	Intact	White	0
1296	Building 3T	Room 118		Door Panel	Wood	Intact	Stained	-0.2
1297	Building 3T	Room 118		FA System Pipe	Metal	Intact	Red	0.1
1298	Building 3 – 1 st Floor	Room 117		Door Frame	Metal	Intact	White	0
1299	Building 3 – 1 st Floor	Room 117		Door Panel	Wood	Intact	Stained	0
1300	Building 3 – 1 st Floor	Room 117A		Door Frame	Metal	Intact	White	0
1301	Building 3 – 1 st Floor	Room 117A		Door Panel	Metal	Intact	White	0
1302	Building 3 – 1 st Floor	Room 117	1	Wall	Drywall	Intact	White	0
1303	Building 3 – 1 st Floor	Room 117	2	Wall	Drywall	Intact	White	0
1304	Building 3 – 1 st Floor	Room 117	3	Wall	Drywall	Intact	White	0
1305	Building 3 – 1 st Floor	Room 117	4	Wall	Drywall	Intact	White	0.1
1306	Building 3 – 1 st Floor	Room 117A	1	Wall	Drywall	Intact	White	0.8
1307	Building 3 – 1 st Floor	Room 117A	2	Wall	Drywall	Intact	White	0.2
1308	Building 3 – 1 st Floor	Room 117A	3	Wall	Drywall	Intact	White	0.1



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1309	Building 3 – 1 st Floor	Room 117A	4	Wall	Drywall	Intact	White	0
1310	Building 3 – 1 st Floor	Room 117		FA System Pipe	Metal	Intact	Red	0
1311	Building 3 – 1 st Floor	Room 117		FA System Pipe	Metal	Intact	Red	0.1
1312	Building 3 – 1 st Floor	Room 117		Ceiling	Drywall	Intact	White	0
1313	Building 3 – 1 st Floor	Room 117A		Ceiling	Drywall	Intact	White	0
1322	Calibration							1
1323	Calibration							1
1324	Calibration							1
1325	Bldg 3 - 2nd Floor	Bathroom		Wall	Drywall	Intact	White	0
1326	Bldg 3 - 2nd Floor	Bathroom		Wall	Ceramic 2x2 Wall Tile	Intact	White	-0.6
1327	Bldg 3 - 2nd Floor	Bathroom		Wall	Drywall	Intact	White	0.1
1328	Bldg 3 - 2nd Floor	Bathroom		Wall	Drywall	Intact	White	0.9
1329	Bldg 3 - 2nd Floor	Bathroom		Wall	Drywall	Intact	White	0.1
1330	Bldg 3 - 2nd Floor	Bathroom		Floor	1x1 Ceramic Floor Tile	Intact	Brown	-0.5
1331	Bldg 3 - 2nd Floor	224		Door Frame	Metal	Intact	Tan	-0.3
1332	Bldg 3 - 2nd Floor	224		Door Panel	Wood	Intact	Stained	0.1
1333	Bldg 3 - 2nd Floor	224		Floor	Panel	Intact	Brown	0
1334	Bldg 3 - 2nd Floor	224		Door Frame	Metal	Intact	Tan	-0.3



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1335	Bldg 3 - 2nd Floor	224		Door Panel	Wood	Intact	Stained	0.1
1336	Bldg 3 - 2nd Floor	224	1	Wall	Drywall	Intact	White	-0.3
1337	Bldg 3 - 2nd Floor	224	1	Wall	Drywall	Intact	White	-0.3
1338	Bldg 3 - 2nd Floor	224	2	Wall	Drywall	Intact	Green	0.8
1339	Bldg 3 - 2nd Floor	224	3	Wall	Drywall	Intact	White	-0.2
1340	Bldg 3 - 2nd Floor	224	4	Wall	Drywall	Intact	White	0.6
1341	Bldg 3 - 2nd Floor	224		Window Frame	Wood	Intact	White	0
1342	Bldg 3 - 2nd Floor	224		Window Frame	Metal	Intact	Silver	-0.1
1343	Bldg 3 - 2nd Floor	224		Ceiling	Plaster	Intact	White	0.3
1344	Bldg 3 - 2nd Floor	224		Ceiling	Plaster	Intact	White	4.3
1345	Bldg 3 - 2nd Floor	224		FA System Pipe	Metal	Intact	Orange	-0.1
1346	Bldg 3 - 2nd Floor	224		Chase	Plaster	Intact	White	4.6
1347	Bldg 3 - 2nd Floor	224		Chase	Plaster	Intact	White	9.5
1348	Bldg 3 - 2nd Floor	224		Ceiling	Plaster	Intact	White	13
1349	Bldg 3 - 2nd Floor	224		Ceiling	Plaster	Intact	White	0.1
1350	Bldg 3 - 2nd Floor	224		Ceiling	Plaster	Intact	White	0.1
1351	Bldg 3 - 2nd Floor	224		Ceiling	Plaster	Intact	White	-0.1
1352	Bldg 3 - 2nd Floor	224		Ceiling	Plaster	Intact	White	-0.1
1353	Bldg 3 - Basement	B025	1	Wall	CMU	Intact	White	0



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1354	Bldg 3 - Basement	B025	2	Wall	2x2 Wall Tile	Intact	Brown	-0.8
1355	Bldg 3 - Basement	B025	2	Wall	Plaster	Intact	White	10.2
1356	Bldg 3 - Basement	B025	2	Wall	Plaster	Intact	White	-0.2
1357	Bldg 3 - Basement	B025	3	Wall	Plaster	Intact	White	-0.1
1358	Bldg 3 - Basement	B025	3	Wall	Plaster	Intact	White	-0.4
1359	Bldg 3 - Basement	B025	4	Wall	CMU	Intact	White	0.1
1360	Bldg 3 - Basement	B025		FA System Pipe	Metal	Intact	Red	-0.2
1361	Bldg 3 - Basement	B025		Horizontal Chase	Plaster	Intact	White	-0.4
1362	Bldg 3 - Basement	B025		Ceiling	Plaster	Intact	White	-0.1
1363	Bldg 3 - Basement	B025		Sink	Metal	Intact	White	1.3
1364	Bldg 3 - Basement	B025		Door Frame	Metal	Intact	White	-0.3
1365	Bldg 3 - Basement	B025		Door Panel	Metal	Intact	White	0
1366	Bldg 3 - Basement	B025		Hanger	Metal	Intact	White	-1.1
1367	Building 2	209		Door frame	Metal	Intact	Grey	-0.2
1368	Building 2	209		Door Panel	Wood	Intact	Stained	0
1369	Building 2	209		Wall	Drywall	Intact	White	0
1370	Building 2	209		Wall	Drywall	Intact	White	0
1371	Building 2	209		Wall	Plaster	Intact	White	3
1372	Building 2	209		Wall	Drywall	Intact	White	-0.1



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1373	Building 2	209		Window Frame	Metal	Intact	Silver	-0.1
1374	Building 2	209		Decorative Trim	Wood	Intact	White	20.8
1375	Building 2	209		Decorative Trim	Wood	Intact	White	19.3
1376	Building 2	209		12x12 Floor Tile	Vinyl	Intact	Blue	-0.2
1377	Building 2	209		Ceiling	Plaster	Intact	White	1.9
1378	Building 2	209		Ceiling	Plaster	Intact	White	0.3
1379	Building 2	209		Ceiling	Plaster	Intact	White	5.9
1380	Building 2	208	1	Wall	Drywall	Intact	White	0
1381	Building 2	308	2	Wall	Plaster	Intact	White	4
1382	Building 2	308	3	Wall	Plaster	Intact	White	0.1
1383	Building 2	308	4	Wall	Plaster	Intact	White	-0.1
1384	Building 2	308		Door Frame	Metal	Intact	White	0
1385	Building 2	308		Door Panel	Wood	Intact	Natural	-0.2
1386	Building 2	308		Window Panel	Wood	Intact	White	18.3
1387	Building 2	308		Window Frame	Metal	Intact	White	0.1
1388	Building 2	308		I beam	Metal	Intact	White	0.1
1389	Building 2	308	2	Wall	Wallpaper	Intact	Gray	4.1
1390	Building 2	308	2	Wall	Wallpaper	Intact	Gray	3
1391	Building 2	308		Ceiling	Concrete	Intact	White	-0.5



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1392	Building 2	308		FA Sprinkler Line	Metal	Intact	Red	0
1394	Building 2	308		Wall Drop Ledge	Drywall	Intact	Blue	0
1395	Building 2	111	1	Wall	Plaster	Intact	White	4.1
1396	Building 2	111	2	Wall	Plaster	Intact	White	4.2
1397	Building 2	111	3	Wall	Plaster	Intact	White	3.9
1398	Building 2	111	4	Wall	Plaster	Intact	White	2.8
1399	Building 2	111		Door Frame	Metal	Intact	White	0
1400	Building 2	111		Door Panel	Wood	Intact	Stained	-0.1
1401	Building 2	111	1	Wall	Plaster	Intact	White	1.6
1402	Building 2	111	2	Wall	Plaster	Intact	White	1.8
1403	Building 2	111	3	Wall	Plaster	Intact	White	1.4
1404	Building 2	111	4	Wall	Plaster	Intact	White	1.7
1405	Building 2	111		Window Frame	Metal	Intact	White	0.2
1406	Building 2	111		Window Frame	Wood	Intact	White	4.4
1407	Building 2	111		Ceiling	Plaster	Intact	White	4.5
1408	Building 2	111		FA System Line	Metal (Flex)	Intact	Red	-0.1
1409	Building 2	111		FA System Line	Metal	Intact	Red	-0.1
1410	Building 2 Basement	G4	1	Wall	Plaster	Intact	White	15.3
1411	Building 2 Basement	G4	2	Wall	Plaster	Intact	White	13.9



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1412	Building 2 Basement	G4	3	Wall	Drywall	Intact	White	0
1413	Building 2 Basement	G4	4	Wall	Plaster	Intact	White	12.6
1414	Building 2 Basement	G4		Door Frame	Metal	Intact	White	0
1415	Building 2 Basement	G4		Door Panel	Metal	Intact	White	0
1416	Building 2 Basement	G5		Door Frame	Metal	Intact	White	0
1417	Building 2 Basement	G5		Door Panel	Wood	Intact	Stained	0
1418	Building 2 Basement	G4		Ceiling	Plaster	Intact	White	19.5
1419	Calibration							1.1
1420	Calibration							1
1421	Calibration							1
1422	Building 56	3A-122	1	Wall	Drywall	Intact	White	0
1423	Building 56	3A-122	2	Wall	Drywall	Intact	White	0.1
1424	Building 56	3A-122	3	Wall	Drywall	Intact	White	0
1425	Building 56	3A-122	4	Wall	Drywall	Intact	White	0.1
1426	Building 56	3A-122		Door Frame	Metal	Intact	White	0
1427	Building 56	3A-122		Door Panel	Metal	Intact	White	0
1428	Building 56	3A-122		Floor	Concrete	Intact	White	0.1
1429	Building 56	1A-109	1	Wall	Drywall	Intact	White	-0.2
1430	Building 56	1A-109	2	Wall	Drywall	Intact	White	-0.1



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1431	Building 56	1A-109	3	Wall	Drywall	Intact	White	-1
1432	Building 56	1A-109	4	Wall	Drywall	Intact	White	0.2
1433	Building 56	1A-109		Door Frame	Metal	Intact	White	-0.1
1434	Building 56	1A-109		Door Panel	Metal	Intact	White	-0.1
1435	Building 56	1A-109		Floor	Concrete	Intact	White	0.1
1436	Building 56	BA-105	1	Wall	Drywall	Intact	White	-0.1
1437	Building 56	BA-105	2	Wall	Drywall	Intact	White	-0.1
1438	Building 56	BA-105	3	Wall	Drywall	Intact	White	0.2
1439	Building 56	BA-105	4	Wall	Drywall	Intact	White	0
1440	Building 56	BA-105		Door Frame	Metal	Intact	White	0
1441	Building 56	BA-105		Door Panel	Metal	Intact	White	0
1442	Building 56	BA-105		Floor	Concrete	Intact	White	0.2
1443	Bldg 24, 1st floor	GA02A	1	Wall	Drywall	Intact	Light Blue	-0.1
1444	Bldg 24, 1st floor	GA02A	2	Wall	Drywall	Intact	Light Blue	0
1445	Bldg 24, 1st floor	GA02A	3	Wall	Drywall	Intact	Light Blue	0.1
1446	Bldg 24, 1st floor	GA02A	4	Wall	Drywall	Intact	Light Blue	0
1447	Bldg 24, 1st floor	GA02A		Door Frame	Metal	Intact	White	0.4
1448	Bldg 24, 1st floor	GA02A		Door Panel	Wood	Intact	Natural	-0.1
1449	Bldg 24, 1st floor	GA02A		Window Frame	Metal	Intact	Charcoal	0



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1450	Bldg 24, 1st floor	GA02A		Fire Suppression Line	Metal	Intact	Red	0
1451	Bldg 24, 1st floor	GA02A		Ceiling	Concrete	Intact	Gray	0.1
1452	Bldg 24, 2nd floor	114C	1	Wall	Drywall	Intact	Blue Green	0.1
1453	Bldg 24, 2nd floor	114C	2	Wall	Drywall	Intact	Blue Green	0.4
1454	Bldg 24, 2nd floor	114C	3	Wall	Drywall	Intact	Blue Green	0.5
1455	Bldg 24, 2nd floor	114C	4	Wall	Drywall	Intact	Blue Green	0
1456	Bldg 24, 2nd floor	114C		Door Frame	Metal	Intact	White	0.1
1457	Bldg 24, 2nd floor	114C		Door Panel	Wood	Intact	Stained	-0.1
1458	Bldg 24, 2nd floor	114C		Window Frame	Wood	Intact	Blue Green	7
1459	Bldg 24, 2nd floor	114C		Window Frame	Metal	Intact	Blue Green	0.1
1460	Bldg 24, 2nd floor	114C		Fire Suppression Line	Metal	Intact	Red	0.2
1461	Bldg 24, 2nd floor	114C		Floor	Concrete	Intact	Brown	0.1
1463	Bldg 24, 2nd floor	114b	1	Wall	Drywall	Intact	White	0
1464	Bldg 24, 2nd floor	114b	2	Wall	Drywall	Intact	White	-0.2
1465	Bldg 24, 2nd floor	114b	3	Wall	Drywall	Intact	White	0
1466	Bldg 24, 2nd floor	114b	4	Wall	Drywall	Intact	White	0
1467	Bldg 24, 2nd floor	114b		Door Frame	Metal	Intact	Natural	0
1468	Bldg 24, 2nd floor	114b		Door Panel	Wood	Intact	White	0.3



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1469	Bldg 24, 2nd floor	114b		Window Frame	Wood	Intact	White	0
1470	Bldg 24, 2nd floor	114b		Window Frame	Metal	Intact	Gray	0
1471	Bldg 24, 2nd floor	114b		Ceiling	Concrete	Intact	Gray	0.2
1472	Bldg 24, 3rd floor	205a		Door Frame	Metal	Intact	Gray	0.1
1473	Bldg 24, 3rd floor	205a		Door Panel	Wood	Intact	Stained	0
1475	Bldg 1, 2nd floor	2C10	1	Wall	Drywall	Intact	White	0
1476	Bldg 1, 2nd floor	2C10	2	Wall	Drywall	Intact	White	0
1477	Bldg 1, 2nd floor	2C10	3	Wall	Drywall	Intact	White	0
1478	Bldg 1, 2nd floor	2C10	4	Wall	Drywall	Intact	White	-0.1
1479	Bldg 1, 2nd floor	2C10		Door Frame	Metal	Intact	White	0
1480	Bldg 1, 2nd floor	2C10		Door Panel	Wood	Intact	Natural	0
1481	Bldg 1, 2nd floor	2C10		Window Frame	Metal	Intact	White	0.1
1482	Bldg 1, 2nd floor	2C10		Floor	Tile	Intact	Blue	0.2
1483	Bldg 1, 2nd floor	2C10		Door Frame	Metal	Intact	White	0.1
1484	Bldg 1, 2nd floor	2C10		Chase	Plaster	Intact	White	4
1485	Bldg 1, 2nd floor	2C10		Ceiling	Plaster	Intact	White	5.9
1486	Bldg 1, 3rd floor	E303	1	Wall	Drywall	Intact	White	0
1487	Bldg 1, 3rd floor	E303	2	Wall	Drywall	Intact	White	0
1488	Bldg 1, 3rd floor	E303	3	Wall	Drywall	Intact	White	0



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1489	Bldg 1, 3rd floor	E303	4	Wall	Drywall	Intact	White	0.1
1490	Bldg 1, 3rd floor	E303		Door Frame	Metal	Intact	Blue	-0.1
1491	Bldg 1, 3rd floor	E303		Door Panel	Wood	Intact	Natural	-0.2
1492	Bldg 1, 3rd floor	E303 (closet)	1	Wall	Drywall	Intact	White	0
1493	Bldg 1, 3rd floor	E303 (closet)	2	Wall	Drywall	Intact	White	0.1
1494	Bldg 1, 3rd floor	E303 (closet)	3	Wall	Drywall	Intact	White	0
1495	Bldg 1, 3rd floor	E303 (closet)	4	Wall	Drywall	Intact	White	-0.1
1496	Bldg 1, 3rd floor	E303 (closet)		Door Frame	Metal	Intact	Blue	0.1
1497	Bldg 1, 3rd floor	E303 (closet)		Door Panel	Wood	Intact	Natural	-0.1
1498	Bldg 1, 3rd floor	E303A	1	Wall	Drywall	Intact	White	0
1499	Bldg 1, 3rd floor	E303A	2	Wall	Drywall	Intact	White	0.1
1500	Bldg 1, 3rd floor	E303A	3	Wall	Drywall	Intact	White	-0.1
1501	Bldg 1, 3rd floor	E303A	4	Wall	Drywall	Intact	White	0
1502	Bldg 1, 3rd floor	E303A		Door Frame	Metal	Intact	Blue	0
1503	Bldg 1, 3rd floor	E303A		Door Panel	Wood	Intact	Natural	-0.1
1504	Bldg 1, 3rd floor	E303A		Ceiling	Concrete	Intact	Brown	5.3
1505	Calibration							1.1
1506	Calibration							1
1507	Calibration							1



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1508	Bldg 1 - 3rd Floor	3C14	1	Wall	Plaster	Intact	White	0.1
1509	Bldg 1 - 3rd Floor	3C14	2	Wall	Drywall	Intact	White	0
1510	Bldg 1 - 3rd Floor	3C14	3	Wall	Drywall	Intact	White	0
1511	Bldg 1 - 3rd Floor	3C14	4	Wall	Drywall	Intact	White	-0.1
1512	Bldg 1 - 3rd Floor	3C14		Door Frame	Metal	Intact	White	0.1
1513	Bldg 1 - 3rd Floor	3C14		Door Panel	Metal	Intact	White	0
1514	Bldg 1 - 3rd Floor	3C14		Ceiling	Plaster	Intact	White	0.4
1515	Bldg 1 - 3rd Floor	3C14		Floor	Floor	Intact	White	-0.3
1516	Bldg 1 - G Floor	GC11	1	Wall	Plaster	Intact	White	-0.2
1517	Bldg 1 - G Floor	GC11	1	Beam	Plaster	Intact	White	17.1
1521	Bldg 1 - G Floor	GC11	2	Wall	Plaster	Intact	White	14.5
1522	Bldg 1 - G Floor	GC11	3	Beam	Plaster	Intact	White	20.8
1523	Bldg 1 - G Floor	GC11	2	Wall	Plaster	Intact	White	0.7
1524	Bldg 1 - G Floor	GC11	3	Wall	Plaster	Intact	White	0.6
1525	Bldg 1 - G Floor	GC11		Wall	Plaster	Intact	White	-0.2
1526	Bldg 1 - G Floor	GC11		Wall	Plaster	Intact	White	-0.7
1527	Bldg 1 - G Floor	GC11	3	Beam	Plaster	Intact	White	0.2
1528	Bldg 1 - G Floor	GC11	3	Wall	Drywall	Intact	White	0
1529	Bldg 1 - G Floor	GC11		Wall	Plaster	Intact	White	0.2



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1530	Bldg 1 - G Floor	GC11		Wall	Ceramic Tile	Intact	White	-0.1
1531	Bldg 1 - G Floor	GC11	3	Wall	Ceramic Tile	Intact	White	0
1532	Bldg 1 - G Floor	GC11	3	Wall	Ceramic Tile	Intact	Wall	-0.2
1533	Bldg 1 - G Floor	GC11		Window	Glass Block	Intact	Clear	-0.4
1534	Bldg 1 - G Floor	GC11	4	Wall	CMU	Intact	White	0
1535	Bldg 1 - G Floor	GC11		Door Frame	Metal	Intact	White	0
1533	Bldg 1 - G Floor	GC11		Door Panel	Metal	Intact	White	0
1534	Bldg 1 - G Floor	GC11		Door Frame	Metal	Intact	Tan	-0.2
1535	Bldg 1 - G Floor	GC11		Door Panel	Wood	Intact	Natural	0
1536	Bldg 1 - G Floor	GC11		Door Frame	Metal	Intact	Grey	-0.3
1537	Bldg 1 - G Floor	GC11		Door Panel	Metal	Intact	Grey	-0.1
1538	Bldg 1 - G Floor	GC11		Door Frame	Metal	Intact	Tan	0
1539	Bldg 1 - G Floor	GC11		Door Panel	Metal	Intact	Tan	-0.2
1540	Bldg 1 - G Floor	GC11		Ceiling	Concrete	Intact	Grey w/ Green Paint	8.7
1541	Bldg 25 - 1st Floor	113A	1	Wall	Drywall	Intact	White	0.1
1542	Bldg 25 - 1st Floor	113A	2	Wall	Drywall	Intact	White	0
1543	Bldg 25 - 1st Floor	113A	3	Wall	Plaster	Intact	Yellow	8.6
1544	Bldg 25 - 1st Floor	113A	4	Wall	Drywall	Intact	White	0.1
1545	Bldg 25 - 1st Floor	113A		Door Frame	Metal	Intact	White	0



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1546	Bldg 25 - 1st Floor	113A		Door Panel	Wood	Intact	Natural	-0.3
1547	Bldg 25 - 1st Floor	113A		Floor	Tile	Intact	Brown	0
1562	Bldg 25 - 1st Floor	113A		Wall	Drywall	Intact	Blue	-0.1
1563	Bldg 25 - 1st Floor	113A		Wall	Drywall	Intact	Blue	0.3
1564	Bldg 25 - 1st Floor	113		Door Frame	Metal	Intact	White	-0.1
1565	Bldg 25 - 1st Floor	113		Door Panel	Metal	Intact	Natural	0.1
1566	Bldg 25 - 1st Floor	112		Wall	Drywall	Intact	Blue	-0.1
1567	Bldg 25 - 1st Floor	112		Wall	Drywall	Intact	Blue	-0.1
1568	Bldg 25 - 1st Floor	113		Door Frame	Metal	Intact	White	0
1569	Bldg 25 - 1st Floor	113		Door Panel	Wood	Intact	Natural	-0.1
1570	Bldg 25 - 2nd Floor	208		Door Frame	Metal	Intact	Tan	0
1571	Bldg 25 - 2nd Floor	208		Door Panel	Wood	Intact	Natural	-0.1
1572	Bldg 25 - 2nd Floor	208	1	Wall	Drywall	Intact	Beige	0
1573	Bldg 25 - 2nd Floor	208	2	Wall	Drywall	Intact	Beige	0
1574	Bldg 25 - 2nd Floor	208A		Door Frame	Metal	Intact	Tan	0.1
1575	Bldg 25 - 2nd Floor	208A		Door Panel	Wood	Intact	Natural	-0.1
1576	Bldg 25 - 2nd Floor	208A	1	Wall	Drywall	Intact	Beige	0
1577	Bldg 25 - 2nd Floor	208A	2	Wall	Drywall	Intact	Beige	0.1
1578	Bldg 25 - 2nd Floor	208A	3	Beam	Plaster	Intact	Beige	0.1



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1579	Bldg 25 - 2nd Floor	208A	3	Wall	Plaster	Intact	Beige	0
1580	Bldg 25 - 2nd Floor	208	4	Wall	Drywall	Intact	Beige	0
1581	Bldg 25 - 2nd Floor	208		Door Frame	Metal	Intact	Tan	0.1
1582	Bldg 25 - 2nd Floor	208		Door Panel	Wood	Intact	Natural	0
1583	Bldg 25 - 2nd Floor	208	3	Wall	Drywall	Intact	Beige	0.1
1585	Bldg 25 - 2nd Floor	208A	3	Wall	Plaster	Intact	Baby Blue	-0.1
1586	Bldg 25 - 2nd Floor	208A	3	Wall	Plaster	Intact	Olive	1
1587	Bldg 25 - 3rd Floor	307	1	Wall	Plaster	Intact	White	0.3
1588	Bldg 25 - 3rd Floor	307	2	Wall	Plaster	Intact	White	0.3
1589	Bldg 25 - 3rd Floor	307	3	Wall	Drywall	Intact	White	-0.3
1590	Bldg 25 - 3rd Floor	307	4	Wall	Drywall	Intact	White	0
1591	Bldg 25 - 3rd Floor	307		Door Frame	Metal	Intact	White	0.9
1592	Bldg 25 - 3rd Floor	307		Door Panel	Wood	Intact	Natural	-0.1
1593	Bldg 25 - 3rd Floor	307A	1	Wall	Drywall	Intact	White	0
1594	Bldg 25 - 3rd Floor	307A	2	Wall	Plaster	Intact	White	0.2
1595	Bldg 25 - 3rd Floor	307A	3	Wall	Plaster	Intact	White	-0.1
1596	Bldg 25 - 3rd Floor	307A	4	Wall	Plaster	Intact	White	-0.1
1597	Bldg 25 - 3rd Floor	307A		Ceiling	Concrete	Intact	White	-0.1
1598	Bldg 25 - 3rd Floor	307A		Floor	Concrete	Intact	White	0



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1599	Bldg 25 - 3rd Floor	307A		Door Frame	Plaster	Intact	White	0.1
1600	Bldg 25 - 3rd Floor	307A		Door Panel	Wood	Intact	White	-0.1
1601	Bldg 25 - 3rd Floor	308	1	Wall	Plaster	Intact	White	-0.1
1602	Bldg 25 - 3rd Floor	308	2	Wall	Plaster	Intact	White	-0.2
1603	Bldg 25 - 3rd Floor	308	3	Wall	Plaster	Intact	White	0.1
1604	Bldg 25 - 3rd Floor	308	4	Wall	Plaster	Intact	White	0
1605	Bldg 25 - 3rd Floor	308		Ceiling	Concrete	Intact	White	0
1606	Calibration							1
1607	Calibration							1
1608	Calibration							1
1609	Bldg 1	2C10	3	Wall Panel	Terracotta	Intact	Peach	-0.2
1610	Bldg 1	2C10	3	Wall Panel	Terracotta	Intact	Peach	-0.2
1611	Bldg 23	G09B	1	Wall	Plaster	Intact	White	0
1612	Bldg 23	G09B	2	Wall	Ceramic Tile	Intact	White	0.1
1613	Bldg 23	G09B	3	Wall	Drywall	Intact	White	0
1614	Bldg 23	G09B	4	Wall	Drywall	Intact	White	0
1615	Bldg 23	G09B		Door Frame	Metal	Intact	White	0
1616	Bldg 23	G09B		Door Panel	Metal	Intact	White	-0.1
1617	Bldg 23	G09	2	Wall	Drywall	Intact	Light Blue	0



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1618	Bldg 23	G09	3	Wall	Drywall	Intact	Light Blue	0.1
1619	Bldg 23	G09	3	Wall	Ceramic Tile	Intact	White	0.2
1620	Bldg 23	G09	4	Wall	Ceramic Tile	Intact	White	0.4
1621	Bldg 23	G09		Door Frame	Metal	Intact	White	-0.1
1622	Bldg 23	G09		Door Panel	Wood	Intact	White	1.5
1623	Bldg 23	G09		Window Frame	Metal	Intact	White	4.3
1624	Bldg 23	G09A		Door Frame	Metal	Intact	Green	-0.4
1625	Bldg 23	G09A	1	Wall	Wood	Intact	White	-0.3
1626	Bldg 23	G09A	2	Wall	Plaster	Intact	White	-0.1
1627	Bldg 23	G09A	3	Wall	Plaster	Deteriorated	White	4.1
1628	Bldg 23	G09A	4	Wall	Plaster	Deteriorated	White	0
1629	Bldg 23	G09A		Ceiling	Plaster	Intact	Green	3.2
1630	Bldg 23	121	1	Wall	Drywall	Intact	White	0
1631	Bldg 23	121	2	Wall	Plaster	Intact	White	0.1
1634	Bldg 23	121	3	Wall	Drywall	Intact	White	0.1
1635	Bldg 23	121	4	Wall	Drywall	Intact	White	0
1636	Bldg 23	121		Door Frame	Metal	Intact	White	0
1638	Bldg 23	121		Door Panel	Wood	Intact	Natural	0
1637	Bldg 55	1A121	1	Wall	Drywall	Intact	White	-0.1



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1638	Bldg 55	1A121	2	Wall	Drywall	Intact	White	-0.2
1639	Bldg 55	1A121	3	Wall	Drywall	Intact	White	-0.1
1640	Bldg 55	1A121	4	Wall	Drywall	Intact	White	0
1641	Bldg 55	1A121	4	Wall	Wood	Intact	White	-0.2
1642	Bldg 55	1A121		Floor	Concrete	Intact	White	0.5
1643	Bldg 55	1A121		Door Frame	Metal	Intact	Tan	0
1644	Bldg 55	1A121		Door Panel	Wood	Intact	Stained	0
1645	Bldg 55	1A130	1	Wall	Drywall	Intact	White	-0.1
1646	Bldg 55	1A130	2	Wall	Drywall	Intact	White	-0.2
1647	Bldg 55	1A130	3	Wall	Drywall	Intact	White	-0.3
1648	Bldg 55	1A130	4	Wall	Drywall	Intact	White	-0.1
1649	Bldg 55	1A130	4	Wall	Wood	Intact	White	0
1650	Bldg 55	1A130		Floor	Concrete	Intact	White	0.2
1651	Bldg 55	1A130		Door Frame	Metal	Intact	Tan	-0.1
1652	Bldg 55	1A130		Door Panel	Wood	Intact	Stained	-0.1
1653	Bldg 55	1A130		FA System Conduit	Metal	Intact	Red	0
1654	Bldg 55	1B104	1	Wall	Drywall	Intact	White	0
1655	Bldg 55	1B104	2	Wall	Drywall	Intact	White	-0.2
1656	Bldg 55	1B104	3	Wall	CMU	Intact	White	0.2



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1657	Bldg 55	1B104	4	Wall	Drywall	Intact	White	0.1
1658	Bldg 55	1B104		Door Frame	Metal	Intact	Tan	-0.1
1659	Bldg 55	1B104		Door Panel	Wood	Intact	Stained	-0.1
1660	Bldg 55	1B104		Floor	Concrete	Intact	White	0.2
1661	Bldg 55	1B104		FA System Conduit	Metal	Intact	Red	0
1662	Bldg 55	1B104		FA System Conduit	Metal	Intact	Red	0
1663	Bldg 55	1C132	1	Wall	CMU	Intact	White	-0.1
1664	Bldg 55	1C132	2	Wall	Drywall	Intact	White	-0.1
1665	Bldg 55	1C132	3	Wall	CMU	Intact	White	0.2
1666	Bldg 55	1C132	4	Wall	CMU	Intact	White	0.1
1667	Bldg 55	1C132		Door Frame	Metal	Intact	White	-0.3
1668	Bldg 55	1C132		Door Panel	Metal	Intact	White	-0.1
1669	Bldg 55	1C132		Floor	Concrete	Intact	White	0.2
1670	Bldg 55	1C133	1	Wall	CMU	Intact	White	0
1671	Bldg 55	1C133	2	Wall	Drywall	Intact	White	0.2
1672	Bldg 55	1C133	3	Wall	CMU	Intact	White	0
1673	Bldg 55	1C133	4	Wall	Drywall	Intact	White	0.1
1674	Bldg 55	1C133		Door Frame	Metal	Intact	White	0
1675	Bldg 55	1C133		Door Panel	Metal	Intact	White	0



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1676	Bldg 55	1C133		Floor	Concrete	Intact	White	0.4
1677	Bldg 55	1C133		Wall	Concrete	Intact	White	0.1
1678	Calibration							1
1679	Calibration							1
1680	Calibration							1
1681	Bldg 55	2C-144		Frame	Metal	Intact	Black	0.1
1682	Bldg 53	2S01	1	Wall	Drywall	Intact	White	-0.2
1683	Bldg 53	2S01	2	Wall	Drywall	Intact	White	-0.1
1684	Bldg 53	2S01	3	Wall	Drywall	Intact	White	-0.2
1685	Bldg 53	2S01	4	Wall	Drywall	Intact	White	-0.1
1686	Bldg 53	2S01		Door Frame	Metal	Intact	White	0
1687	Bldg 53	2S01		Door Panel	Wood	Intact	Natural	0
1688	Bldg 53	2S01		Ceiling	Concrete	Intact	Gray	0.1
1689	Bldg 53	2S01		Floor	Tile	Intact	White	0
1690	Bldg 53	2S02	1	Wall	Drywall	Intact	White	0.1
1691	Bldg 53	2S02	2	Wall	Drywall	Intact	White	-0.1
1692	Bldg 53	2S02	3	Wall	Drywall	Intact	White	-0.1
1693	Bldg 53	2S02	4	Wall	Drywall	Intact	White	-0.1
1694	Bldg 53	2S02		Door Frame	Metal	Intact	White	0



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1695	Bldg 53	2S02		Door Panel	Wood	Intact	Natural	0
1696	Bldg 53	2S02		Ceiling	Concrete	Intact	White	0.1
1697	Bldg 53	2S02		Floor	Concrete	Intact	Gray	0.2
1698	Bldg 53	2S02		Duct	Metal	Intact	White	0.2
1699	Bldg 53	2S02		Fire Box	Metal	Intact	Red	0
1700	Bldg 53	2S02		Fire Conduit	Metal	Intact	Red	-0.1
1701	Bldg 53	2S02		Fire Conduit	Metal	Intact	Light Red	0.1
1702	Bldg 53	2S01		Furnace	Metal	Intact	White	0
1703	Bldg 53	1S02	1	Wall	Drywall	Intact	White	0.1
1704	Bldg 53	1S02	2	Wall	Drywall	Intact	White	0
1705	Bldg 53	1S02	3	Wall	Drywall	Intact	White	-0.1
1706	Bldg 53	1S02	4	Wall	Drywall	Intact	White	0.1
1707	Bldg 53	1S02		Door Frame	Metal	Intact	White	-0.1
1708	Bldg 53	1S02		Door Panel	Wood	Intact	Natural	0
1709	Bldg 53	1S02		Door Frame	Metal	Intact	Gray	-0.1
1710	Bldg 53	1S02		Ceiling	Concrete	Intact	White	0.4
1711	Bldg 53	1S02		Floor	Concrete	Intact	Gray	0.1
1712	Bldg 53	1S02		Drop/Lip	Concrete	Intact	White	0.2
1713	Bldg 53	1S02		Duct	Metal	Intact	White	0



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1714	Bldg 53	GS10	1	Wall	Drywall	Intact	White	0.1
1715	Bldg 53	GS10	2	Wall	Drywall	Intact	White	-0.1
1716	Bldg 53	GS10	3	Wall	Concrete	Intact	Cream	0.3
1717	Bldg 53	GS10	4	Wall	Drywall	Intact	White	-0.2
1718	Bldg 53	GS10		Door Frame	Metal	Intact	Gray	0
1719	Bldg 53	GS10		Door Frame	Metal	Intact	Silver	0
1720	Bldg 53	GS10		Door Panel	Metal	Intact	White	0
1721	Bldg 53	GS10		Ceiling	Concrete	Intact	Off-White	0.4
1722	Bldg 53	GS10		Floor	Tile	Intact	Gray	0
1723	Bldg 53	GS10		Fire Conduit	Metal	Intact	Red	0
1724	Bldg 53	Hallway GN45A		Wall	Drywall	Intact	White	-0.6
1747	Calibration							1
1748	Calibration							1
1749	Calibration							1
1750	Bldg 52 - 1st Floor	1S33	1	Wall	Drywall	Intact	White	0
1751	Bldg 52 - 1st Floor	1S33	2	Wall	Drywall	Intact	White	-0.2
1752	Bldg 52 - 1st Floor	1S33	3	Wall	Plaster	Intact	White	0
1753	Bldg 52 - 1st Floor	1S33	4	Wall	Drywall	Intact	White	0
1754	Bldg 52 - 1st Floor	1S33		Door Frame	Metal	Intact	White	0



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1755	Bldg 52 - 1st Floor	1S33		Door Panel	Metal	Intact	White	-0.1
1756	Bldg 52 - 1st Floor	1S33		Cooler Unit	Metal	Intact	White	0
1757	Bldg 52 - 1st Floor	1S33		Unistrut for Piping	Metal	Intact	White	0.2
1758	Bldg 52 - 1st Floor	1S33		Inset Convector Unit	Metal	Intact	White	0.2
1759	Bldg 52 - 1st Floor	1S33		Window Frame	Metal	Intact	Silver	0
1760	Bldg 52 - 1st Floor	1SG33		Sink	Ceramic	Intact	White	-0.5
1761	Bldg 52 - G Floor	GN29	1	Wall	Plaster	Intact	White	0
1762	Bldg 52 - G Floor	GN29	2	Wall	Plaster	Intact	White	0
1763	Bldg 52 - G Floor	GN29	3	Wall	Plaster	Intact	White	0.5
1764	Bldg 52 - G Floor	GN29	4	Wall	Plaster	Intact	White	0.3
1765	Bldg 52 - G Floor	GN29		Door Frame	Metal	Intact	Gray	0.1
1766	Bldg 52 - G Floor	GN29		Door Panel	Wood	Intact	White	0
1767	Bldg 52 - G Floor	GN29		Door Frame	Metal	Intact	White	0.6
1768	Bldg 52 - G Floor	GN29		Door Panel	Wood	Intact	White	0.2
1769	Bldg 52 - G Floor	GN29		Window Frame	Metal	Intact	Gray	-0.2
1770	Bldg 52 - G Floor	GN29		Window Frame	Wood	Intact	White	-0.2
1771	Bldg 52 - G Floor	GN29		Window Frame	Metal	Intact	Silver	0
1772	Bldg 52 - G Floor	GN28		Door Frame	Metal	Intact	White	0.3
1773	Bldg 52 - G Floor	GN28		Door Panel	Wood	Intact	Yellow	0.6



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TABLE 2: LEAD XRF SAMPLING SUMMARY

Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1774	Bldg 52 - G Floor	GN29		Inset Convector Unit	White	Intact	White	0.3
1775	Bldg 52 - G Floor	GN29		Door Frame	Metal	Intact	White	4.8
1776	Bldg 52 - G Floor	GN28		Door Panel	Metal	Intact	White	0.4
1777	Bldg 52 - G Floor	GN27A		Wall	Terracotta	Intact	Peach	-0.3
1778	Bldg 52 - G Floor	GN27A		Wall	CMU	Intact	Gray	0
1779	Bldg 52 - G Floor	GN28		Structural Beam	Metal	Intact	White	0.3
1780	Bldg 52 - G Floor	GN28		Cooler Unit	Metal	Intact	White	0.1
1781	Bldg 52 - G Floor	GN28		Cooler Unit	Metal	Intact	White	-0.1
1782	Bldg 52 - G Floor	GN27A		Door Panel	Metal	Intact	White	0.1
1783	Bldg 52 - G Floor	GN28		Door Panel	Metal	Intact	White	0.2
1784	Bldg 52 - G Floor	GN27A		Wall Light	Metal	Intact	White	0
1785	Bldg 52 - G Floor	GN28	1	Wall	Plaster	Intact	Yellow	-0.1
1786	Bldg 52 - G Floor	GN28	2	Wall	Plaster	Intact	Yellow	0
1787	Bldg 52 - G Floor	GN28	3	Wall	Plaster	Intact	Yellow	0
1788	Bldg 52 - G Floor	GN28	4	Wall	Plaster	Intact	Yellow	0.1
1789	Bldg 52 - G Floor	GN28		Sink	Ceramic	Intact	White	57
1790	Bldg 52 - G Floor	GN27		Ceiling	Plaster	Intact	White	0
1791	Bldg 52 - 1st Floor	1S33		Ceiling	Concrete	Intact	Unpainted	0.4
1792	Bldg 60 - 1st Floor	101A	1	Wall	Drywall	Intact	White	0



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1793	Bldg 60 - 1st Floor	101A	2	Wall	Drywall	Intact	White	-0.1
1794	Bldg 60 - 1st Floor	101A	3	Wall	Drywall	Intact	White	-0.1
1795	Bldg 60 - 1st Floor	101A	4	Wall	Drywall	Intact	White	-0.1
1796	Bldg 60 - 1st Floor	101A		Door Frame	Metal	Intact	White	-0.4
1797	Bldg 60 - 1st Floor	101A		Door Panel	Metal	Intact	White	-0.1
1798	Bldg 60 - 1st Floor	Corridor 136	2	Wall	Glazed Block	Intact	Beige	3.6
1799	Bldg 60 - 1st Floor	Corridor 136	2	Wall	Glazed Block	Intact	Brown	2.9
1800	Bldg 60 - 1st Floor	Corridor 136		Floor	Ceramic Tile	Intact	Brown	0
1801	Bldg 60 - 1st Floor	101A		Ceiling	Plaster	Intact	White	-0.2
1802	Bldg 60 - 1st Floor	102		Fire Sprinkler Line	Metal	Intact	White	0.1
1803	Bldg 60 - 1st Floor	102		Fire Sprinkler Elbow	Metal	Intact	White	-0.2
1804	Bldg 60 - 1st Floor	102	1	Wall	Drywall	Intact	White	0.2
1805	Bldg 60 - 1st Floor	102	2	Wall	Drywall	Intact	White	0
1806	Bldg 60 - 1st Floor	102	3	Wall	Drywall	Intact	Black	-0.1
1807	Bldg 60 - 1st Floor	102	4	Wall	Drywall	Intact	Gray	-0.2
1808	Bldg 60 - 1st Floor	102		Door Frame	Metal	Intact	White	0
1809	Bldg 60 - 1st Floor	102		Door Panel	Metal	Intact	White	-0.1
1810	Bldg 60 - 1st Floor	102		Data Rack	Metal	Intact	Black	0.2



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1812	Bldg 51 - 1st Floor	BE111	1	Wall	Drywall	Intact	Wallpaper	-0.1
1813	Bldg 51 - 1st Floor	BE111	2	Wall	Drywall	Intact	Wallpaper	0
1814	Bldg 51 - 1st Floor	BE111	3	Wall	Drywall	Intact	Wallpaper	0.1
1815	Bldg 51 - 1st Floor	BE111	4	Wall	Drywall	Intact	Wallpaper	-0.3
1816	Bldg 51 - 1st Floor	BE111		Door Frame	Metal	Intact	Pink (Interior)	-0.4
1817	Bldg 51 - 1st Floor	BE111		Door Frame	Metal	Intact	Gray (Exterior)	0.3
1818	Bldg 51 - 1st Floor	BE111		Door Panel	Wood	Intact	Stained	-0.1
1819	Bldg 51 - 1st Floor	BE111		Door Frame	Metal	Intact	Silver (Interior)	-0.1
1820	Bldg 51 - 1st Floor	BE111		Door Frame	Metal	Intact	Gray (Exterior)	0
1821	Bldg 51 - 1st Floor	BE111		Door Panel	Wood	Intact	Stained	-0.1
1822	Bldg 51 - 1st Floor	BE111		Fire Sprinkler Line	Metal	Intact	Black	-0.1
1823	Bldg 51 - 1st Floor	BE110	1	Wall	Drywall	Intact	White	0
1824	Bldg 51 - 1st Floor	BE110	2	Wall	Drywall	Intact	White	0
1825	Bldg 51 - 1st Floor	BE110	3	Wall	Drywall	Intact	White	0
1826	Bldg 51 - 1st Floor	BE110	4	Wall	Drywall	Intact	White	0.1
1827	Bldg 51 - 1st Floor	BE111		Door Frame	Metal	Intact	Silver	0.2
1828	Bldg 51 - 1st Floor	BE111		Door Panel	Wood	Intact	Natural	0.1
1829	Bldg 51 - 1st Floor	BE111 (Closet)	1	Wall	Drywall	Intact	White	-0.2
1830	Bldg 51 - 1st Floor	BE111 (Closet)	2	Wall	Drywall	Intact	White	-0.2



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1831	Bldg 51 - 1st Floor	BE111 (Closet)	3	Wall	Drywall	Intact	White	-0.3
1832	Bldg 51 - 1st Floor	BE111 (Closet)	4	Wall	Drywall	Intact	White	-0.1
1833	Bldg 51 - 1st Floor	BE111 (Closet)		Door Frame	Metal	Intact	Beige (Interior)	0
1834	Bldg 51 - 1st Floor	BE111 (Closet)		Door Frame	Metal	Intact	Black	0
1835	Bldg 51 - 1st Floor	BE111 (Closet)		Door Panel	Wood	Intact	Natural	0
1837	Calibration							1
1838	Calibration							1
1839	Calibration							1
1840	Bldg 51 - 1st Floor	BE111	1	Wall	Ceramic Tile	Intact	Beige	-0.1
1841	Bldg 51 - 1st Floor	BE111	1	Wall	Ceramic Tile	Intact	Beige	0.1
1842	Bldg 51 - 1st Floor	1A183	1	Wall	Drywall	Intact	White	-0.1
1843	Bldg 51 - 1st Floor	1A183	2	Wall	Drywall	Intact	White	-0.2
1844	Bldg 51 - 1st Floor	1A183	3	Wall	Drywall	Intact	White	-0.1
1845	Bldg 51 - 1st Floor	1A183	4	Wall	Drywall	Intact	White	0
1846	Bldg 51 - 1st Floor	1A183		Fire Sprinkler Line	Metal	Intact	Black	0.1
1847	Bldg 51 - 1st Floor	1A183		Door Frame	Metal	Intact	Beige	0
1848	Bldg 51 - 1st Floor	1A183		Door Frame	Metal	Intact	Peach	0
1849	Bldg 51 - 1st Floor	1A183		Door Frame	Metal	Intact	White	-0.1
1850	Bldg 51 - 1st Floor	1A183		Door Panel	Wood	Intact	Natural	-0.1



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1851	Bldg 51 - 1st Floor	1A102	1	Wall	Drywall	Intact	White	0
1852	Bldg 51 - 1st Floor	1A102	2	Wall	Drywall	Intact	White	0
1853	Bldg 51 - 1st Floor	1A102	3	Wall	Drywall	Intact	White	-0.1
1854	Bldg 51 - 1st Floor	1A102	4	Wall	Drywall	Intact	White	0
1855	Bldg 51 - 1st Floor	1A102		Door Frame	Metal	Intact	Gray	-0.1
1856	Bldg 51 - 1st Floor	1A102		Door Panel	Wood	Intact	Stain	-0.1
1857	Bldg 51 - 1st Floor	1A102		Fire Sprinkler Line	Metal	Intact	Black	0.1
1858	Bldg 51 - 1st Floor	1A102		FA System Conduit	Metal	Intact	Red	-0.2
1859	Bldg 51 - 1st Floor	1A123	1	Wall	Drywall	Intact	White	-0.1
1860	Bldg 51 - 1st Floor	1A123	2	Wall	Drywall	Intact	White	0.1
1861	Bldg 51 - 1st Floor	1A123	3	Wall	Drywall	Intact	White	0
1862	Bldg 51 - 1st Floor	1A123	4	Wall	Drywall	Intact	White	0.1
1863	Bldg 51 - 1st Floor	1A123		Door Frame	Metal	Intact	Peach	0
1864	Bldg 51 - 1st Floor	1A123		Door Frame	Metal	Intact	White	-0.1
1865	Bldg 51 - 1st Floor	1A123		Door Panel	Wood	Intact	Stain	0
1866	Bldg 51 - 1st Floor	1A123		Ceiling	Drywall	Intact	White	0
1867	Bldg 51 - 1st Floor	1A124		Ceiling	Drywall	Intact	White	-0.1
1868	Bldg 51T - 1st Floor	109	1	Wall	Drywall	Intact	White	-0.1
1869	Bldg 51T - 1st Floor	109	2	Wall	Drywall	Intact	White	0



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1870	Bldg 51T - 1st Floor	109	3	Wall	Drywall	Intact	White	0.1
1871	Bldg 51T - 1st Floor	109	4	Wall	Drywall	Intact	White	0
1872	Bldg 51T - 1st Floor	109		Door Frame	Metal	Intact	Brown	0.1
1873	Bldg 51T - 1st Floor	109		Door Panel	Wood	Intact	Stain	0.1
1874	Bldg 51T - 1st Floor	109		Floor	FT	Intact	White w/ Specs	0.1
1875	Bldg 51T - 1st Floor	109		Fire Sprinkler Line	PVC	Intact	Orange	0.1
1876	Bldg 51T - 1st Floor	109		Fire Sprinkler Hanger	Metal	Intact	Silver	-0.2
1877	Bldg 57 - 1st Floor	1B-139	1	Wall	CMU	Intact	White	0.1
1878	Bldg 57 - 1st Floor	1B-139	2	Wall	CMU	Intact	White	0
1879	Bldg 57 - 1st Floor	1B-139	3	Wall	CMU	Intact	White	0
1880	Bldg 57 - 1st Floor	1B-139	4	Wall	CMU	Intact	White	-0.2
1881	Bldg 57 - 1st Floor	1B-139		Door Frame	Metal	Intact	White	0.4
1882	Bldg 57 - 1st Floor	1B-139		Door Panel	Wood	Intact	Natural	-0.3
1883	Bldg 57 - 1st Floor	1B-139		Floor	Concrete	Intact	White	0
1884	Bldg 57 - 1st Floor	1B-139		I Beam	Steel	Intact	Gray	0.2
1885	Bldg 57 - 1st Floor	1B-139		Rack	Metal	Intact	Black	-0.1
1886	Bldg 57 - 1st Floor	1B-139		Fire Sprinkler Line	Metal	Intact	Black	0
1887	Bldg 57 - 1st Floor	1B-139		FA System Conduit	Metal	Intact	Red	-0.1



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1888	Bldg 57 - 1st Floor	1B-120	1	Wall	Drywall	Intact	White	-0.1
1889	Bldg 57 - 1st Floor	1B-120	2	Wall	CMU	Intact	White	0
1890	Bldg 57 - 1st Floor	1B-120	3	Wall	CMU	Intact	White	0
1891	Bldg 57 - 1st Floor	1B-120	4	Wall	Drywall	Intact	White	-0.2
1892	Bldg 57 - 1st Floor	1B-120		Door Frame	Metal	Intact	White	0.2
1893	Bldg 57 - 1st Floor	1B-120		Door Panel	Wood	Intact	Natural	-0.1
1894	Bldg 57 - 1st Floor	1B-121	1	Wall	Drywall	Intact	White	-0.1
1895	Bldg 57 - 1st Floor	1B-121	2	Wall	Drywall	Intact	White	0.1
1896	Bldg 57 - 1st Floor	1B-121	3	Wall	Drywall	Intact	White	-0.2
1897	Bldg 57 - 1st Floor	1B-121	4	Wall	Drywall	Intact	White	-0.1
1898	Bldg 57 - 1st Floor	1B-121		Door Frame	Metal	Intact	White	0
1899	Bldg 57 - 1st Floor	1B-121		Door Panel	Wood	Intact	Natural	0
1900	Bldg 57 - 1st Floor	1B-121		Floor	Concrete	Intact	Gray	0.1
1901	Bldg 58 - 1st Floor	149	1	Wall	Drywall	Intact	White	0.1
1902	Bldg 58 - 1st Floor	149	2	Wall	Drywall	Intact	White	0
1903	Bldg 58 - 1st Floor	149	3	Wall	Drywall	Intact	White	0
1904	Bldg 58 - 1st Floor	149	4	Wall	Drywall	Intact	White	0
1905	Bldg 58 - 1st Floor	149		FA System Conduit	Metal	Intact	Red	-0.1
1906	Bldg 58 - 1st Floor	149		Door Frame	Metal	Intact	Beige	0



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1907	Bldg 58 - 1st Floor	149		Door Panel	Wood	Intact	Stained	0
1908	Bldg 58 - 1st Floor	104	1	Wall	Drywall	Intact	White	-0.1
1909	Bldg 58 - 1st Floor	104	2	Wall	Drywall	Intact	White	0.1
1910	Bldg 58 - 1st Floor	104	3	Wall	Drywall	Intact	White	0
1911	Bldg 58 - 1st Floor	104	4	Wall	Drywall	Intact	White	0.1
1912	Bldg 58 - 1st Floor	104		Door Frame	Metal	Intact	Beige	0
1913	Bldg 58 - 1st Floor	104		Door Panel	Wood	Intact	Natural	0
1914	Bldg 58 - 1st Floor	104		Window Frame	Aluminum	Intact	Silver	0
1915	Bldg 60T - 1st Floor	108	1	Wall	Drywall	Intact	White	0.1
1916	Bldg 60T - 1st Floor	108	2	Wall	Drywall	Intact	White	-0.2
1917	Bldg 60T - 1st Floor	108	3	Wall	Drywall	Intact	White	0
1918	Bldg 60T - 1st Floor	108	4	Wall	Drywall	Intact	White	0
1919	Bldg 60T - 1st Floor	108		Door Frame	Metal	Intact	Brown	0
1920	Bldg 60T - 1st Floor	108		Door Panel	Wood	Intact	Stain	-0.1
1921	Bldg 53T - 1st Floor	109	1	Wall	Drywall	Intact	White	0
1922	Bldg 53T - 1st Floor	109	2	Wall	Drywall	Intact	White	0
1923	Bldg 53T - 1st Floor	109	3	Wall	Drywall	Intact	White	0
1924	Bldg 53T - 1st Floor	109	4	Wall	Drywall	Intact	White	0
1925	Bldg 53T - 1st Floor	109		Door Frame	Metal	Intact	Brown	0.1



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1926	Bldg 53T - 1st Floor	109		Door Panel	Wood	Intact	Stain	-0.1
1927	Bldg 53T - 1st Floor	109		FA System Conduit	Metal	Intact	Red	0
1930	Calibration							1
1931	Calibration							1
1932	Calibration							1
1933	Bldg 75 - 1st Floor	1B-107	1	Wall	Drywall	Intact	White	-0.1
1934	Bldg 75 - 1st Floor	1B-107	2	Wall	Drywall	Intact	White	0
1935	Bldg 75 - 1st Floor	1B-107	3	Wall	CMU	Intact	White	-0.1
1936	Bldg 75 - 1st Floor	1B-107	4	Wall	Drywall	Intact	White	-0.1
1937	Bldg 75 - 1st Floor	1B-107		Door Frame	Metal	Intact	Gray	0
1938	Bldg 75 - 1st Floor	1B-107		Door Panel	Wood	Intact	Natural	0
1939	Bldg 75 - 1st Floor	1B-105	1	Wall	Drywall	Intact	White	0.1
1940	Bldg 75 - 1st Floor	1B-105	2	Wall	Drywall	Intact	White	-0.1
1941	Bldg 75 - 1st Floor	1B-105	3	Wall	CMU	Intact	White	-0.1
1942	Bldg 75 - 1st Floor	1B-105	4	Wall	Drywall	Intact	White	-0.2
1943	Bldg 75 - 1st Floor	1B-105		Door Frame	Metal	Intact	White	0.3
1944	Bldg 75 - 1st Floor	1B-105		Door Panel	Wood	Intact	Natural	-0.2
1945	Bldg 75 - 1st Floor	1B-105		I-Beam	Metal	Intact	White	0.3
1946	Bldg 1 - 3rd Floor	3C14	1	Wall	Plaster	Intact	White	0



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1947	Bldg 1 - 3rd Floor	3C14	2	Wall	Plaster	Intact	White	-0.3
1948	Bldg 1 - 3rd Floor	3C14	3	Wall	Plaster	Intact	White	-0.1
1949	Bldg 1 - 3rd Floor	3C14	4	Wall	Plaster	Intact	White	0.5
1950	Bldg 1 - 3rd Floor	3C14		Door Frame	Metal	Intact	White	-0.4
1951	Bldg 1 - 3rd Floor	3C14		Door Panel	wood	Intact	Stain	0
1952	Bldg 1 - 3rd Floor	3C14		Door Frame	metal	Intact	Yellow	-0.3
1953	Bldg 1 - 3rd Floor	3C14		Floor	6x6 Ceramic FT	Intact	Blue	0.5
1954	Bldg 1 - 3rd Floor	3C14		Floor	6x6 Ceramic FT	Intact	Blue	0.4
1955	Bldg 1 - 3rd Floor	3C14		Ceiling	Plaster	Intact	White	0.1
1956	Bldg 1 - 3rd Floor	3C14		I-beam	Metal	Intact	Red	0.2
1957	Bldg 1 - 3rd Floor	Corridor H304		Cooler Wall Mount	Metal	Intact	Silver	-0.1
1958	Bldg 1 - 3rd Floor	3C15	1	Wall	Plaster	Intact	White	0.1
1959	Bldg 1 - 3rd Floor	3C15	2	Wall	Plaster	Intact	White	0
1960	Bldg 1 - 3rd Floor	3C15	3	Wall	Drywall	Intact	White	0
1961	Bldg 1 - 3rd Floor	3C15	4	Wall	Drywall	Intact	White	0.1
1962	Bldg 1 - 3rd Floor	3C15		Door Frame	Metal	Intact	White	0.1
1963	Bldg 1 - 3rd Floor	3C15		Door Panel	Wood	Intact	Stain	-0.2
1964	Bldg 1 - 3rd Floor	3C15		Cooler Unit	Metal	Intact	Beige	0.1



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1965	Bldg 1 - 3rd Floor	3C16	1	Wall	Drywall	Intact	White	-0.6
1966	Bldg 1 - 3rd Floor	3C16	2	Wall	Drywall	Intact	White	-0.4
1967	Bldg 1 - 3rd Floor	3C16	3	Wall	Drywall	Intact	White	0.1
1968	Bldg 1 - 3rd Floor	3C16	4	Wall	Drywall	Intact	White	0
1969	Bldg 1 - 3rd Floor	3C16		Door Frame	Metal	Intact	White	0
1970	Bldg 1 - 3rd Floor	3C16		Door Panel	Metal	Intact	White	0
1971	Bldg 1 - 3rd Floor	3C16	3	Wall Tile	Ceramic	Intact	Gray	26.1
1972	Bldg 1 - 3rd Floor	3C16		Floor	Ceramic	Intact	White	1
1973	Bldg 1 - 3rd Floor	3C15		Electrical Conduit	Metal	Intact	Gray	-0.1
1974	Bldg 1 - 3rd Floor	3C15		Window	Aluminum	Intact	Silver	0
1975	Bldg 1 - 3rd Floor	3C15		Convactor Unit	Metal	Intact	White	2.1
1976	Bldg 1 - 3rd Floor	3C15		Sink	Stainless	Intact	Silver	0
1977	Bldg 1 - 1st Floor	1E15	1	Wall	Drywall	Intact	Dark Blue	-0.1
1978	Bldg 1 - 1st Floor	1E15	1	Wall	Drywall	Intact	Light Blue	0.2
1979	Bldg 1 - 1st Floor	1E15	2	Wall	Plaster	Intact	White	-0.1
1980	Bldg 1 - 1st Floor	1E15	3	Wall	Plaster	Intact	White	0.1
1981	Bldg 1 - 1st Floor	1E15	4	Wall	Drywall	Intact	White	0
1982	Bldg 1 - 1st Floor	1E15		Window Sill	Wood	Intact	White	9.6
1983	Bldg 1 - 1st Floor	1E15		Window Frame	Wood	Intact	White	11.8



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TABLE 2: LEAD XRF SAMPLING SUMMARY

Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
1984	Bldg 1 - 1st Floor	1E15		Ceiling	Concrete	Intact	White	9.9
1985	Bldg 1 - 1st Floor	1E15		10" Pipe	Metal	Intact	Tan	7.3
1986	Bldg 1 - 1st Floor	1E15		FA System Conduit	Metal	Intact	Red	0
1987	Bldg 1 - 1st Floor	1E15		Conduit box	Metal	Intact	Orange	-0.1
1988	Bldg 1 - 1st Floor	1E15		Fire Sprinkler Line	Metal	Intact	Brown	0.1
1989	Bldg 1 - 1st Floor	1E15		Door Frame	Metal	Intact	White	0.1
1990	Bldg 1 - 1st Floor	1E15		Door Panel	Wood	Intact	Stain	0
1991	Bldg 1- 1st Floor	C102D	1	Wall	Drywall	Intact	White	-0.2
1992	Bldg 1- 1st Floor	C102D	2	Wall	Drywall	Intact	White	0
1993	Bldg 1- 1st Floor	C102D	3	Wall	Drywall	Intact	White	-0.1
1994	Bldg 1- 1st Floor	C102D	4	Wall	Drywall	Intact	White	0.1
1995	Bldg 1- 1st Floor	C102D		Decorative Trim	Wood	Intact	White	14.4
1996	Bldg 1- 1st Floor	C102D		Fire Sprinkler Line	Metal	Intact	Black	-0.1
1997	Bldg 1- 1st Floor	C102D		FA System Conduit	Metal	Intact	Red	-0.1
2001	Calibration							1
2002	Calibration							1
2003	Calibration							1
2004	Bldg 24 - 1st Floor	114B		Wall	Plaster		White	0.3



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2005	Bldg 24 - 1st Floor	114B		Wall Convecteur Unit	Metal		White	0
2006	Bldg 24 - 1st Floor	114B		Window Sill	Wood		White	5.6
2007	Bldg 24 - 1st Floor	114B		Wall Convecteur Unit	Metal		White	0.1
2008	Bldg 24 - 1st Floor	114B		Window Sill	Wood		White	5.5
2009	Bldg 24 - 2nd Floor	205A		Wall Convecteur Unit	Metal		Tan	0
2010	Bldg 24 - 2nd Floor	205A		Fire Sprinkler Line	Metal	Intact	Black	0
2011	Bldg 24 - 2nd Floor	205A		Ceiling	Concrete	Intact	Gray	0
2012	Bldg 24 - 2nd Floor	205A		Wall Convecteur Unit Line	Metal	Intact	Bronze	0
2013	Bldg 24 - 2nd Floor	205A		Window Frame	Aluminum	Intact	Silver	0
2014	Bldg 24 - 2nd Floor	205A	1	Wall	Drywall	Intact	White	-0.1
2015	Bldg 24 - 2nd Floor	205A	2	Wall	Drywall	Intact	White	-0.2
2016	Bldg 24 - 2nd Floor	205A	3	Wall	Drywall	Intact	White	-0.2
2017	Bldg 24 - 2nd Floor	205A	4	Wall	Drywall	Intact	White	-0.2
2018	Bldg 24 - 2nd Floor	205A		Door Frame	Metal	Intact	White	-0.1
2019	Bldg 24 - 2nd Floor	205A		Door Panel	Wood	Intact	Stain	0
2020	Bldg 3 - 1st Floor	Outside 117		Ceiling	Plaster	Intact	White	5.7
2021	Bldg 2 - 1st Floor	111		Floor	Paint on Tile	Intact	Brown	0.1



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2022	Calibration							1
2023	Calibration							1
2024	Calibration							1
2025	Bldg 52 - G Floor	GN29		Ceiling	Concrete	Intact	Gray	0.1
2026	Bldg 52 - G Floor	GN29		FA System Conduit	Metal	Intact	Red	0
2027	Bldg 52 - G Floor	GN29		Fire Sprinkler Line	Metal	Intact	Brown	-0.3
2028	Bldg 52 - G Floor	GN29		Ceiling	Concrete	Intact	White	0.4
2029	Bldg 52 - 1st Floor	1N82		Wall	Drywall	Intact	Beige	0.1
2030	Bldg 52 - 1st Floor	1N82		Wall	Drywall	Intact	Blue	0.1
2031	Bldg 52 - 1st Floor	1N82		Wall	Drywall	Intact	Blue	0
2032	Bldg 52 - 1st Floor	1N82		Wall	Plaster	Intact	Blue	0.1
2033	Bldg 52 - 1st Floor	1N82		Convactor	Metal	Intact	White	0.1
2034	Bldg 52 - 1st Floor	1N82		Window Frame	Metal	Intact	Silver	0
2035	Bldg 52 - 1st Floor	1N82		Window Frame	Wood	Intact	White	0
2036	Bldg 52 - 1st Floor	1N82		FCU	Metal	Intact	White	-0.1
2037	Bldg 52 - 1st Floor	1N82		Door Frame	Metal	Intact	White	-0.1
2038	Bldg 52 - 1st Floor	1N82		Door Panel	Metal	Intact	White	0
2039	Bldg 52 - 1st Floor	1N82		Door Frame	Metal	Intact	White	-0.1
2040	Bldg 52 - 1st Floor	1N82		Door Panel	Wood	Intact	Natural	-0.1



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2041	Bldg 52 - 1st Floor	1N82		Wall	Drywall	Intact	White	0.2
2042	Bldg 52 - 1st Floor	1N82		Ceiling	Concrete	Intact	Gray	0.4
2043	Bldg 52 - 1st Floor	1N82		Fire Sprinkler Line	Metal	Intact	Brown	0.1
2044	Bldg 52 - 1st Floor	1N82		Bracket	Metal	Intact	Brown	-0.1
2045	Bldg 52 - 1st Floor	1N82		Unistrut	Metal	Intact	Gray	-0.1
2046	Bldg 52 - 1st Floor	1N82		Structural Bracket	Metal	Intact	Red	0.1
2047	Bldg 52 - 1st Floor	1N82		Structural Beam	Metal	Intact	Blue	0.3
2048	Bldg 52 - 1st Floor	1N82		Convactor Pipe	Metal	Intact	Brown	0
2049	Bldg 52 - 2nd Floor	2N86A	1	Drywall	White	Intact	White	-0.1
2050	Bldg 52 - 2nd Floor	2N86A	2	Drywall	White	Intact	White	-0.1
2051	Bldg 52 - 2nd Floor	2N86A	3	Drywall	White	Intact	White	-0.2
2052	Bldg 52 - 2nd Floor	2N86A	4	Drywall	White	Intact	White	0
2053	Bldg 52 - 2nd Floor	2N86A		Door Frame	Metal	Intact	White	0
2054	Bldg 52 - 2nd Floor	2N86A		Door Panel	Wood	Intact	Natural	0
2055	Bldg 52 - 2nd Floor	2N86A		Window Frame	Metal	Intact	Gray	0.1
2056	Bldg 52 - 2nd Floor	2N86A		Ceiling	Concrete	Intact	Gray	0.1
2057	Bldg 52 - 2nd Floor	2N86A		FCU	Metal	Intact	Beige	0
2058	Bldg 52 - 2nd Floor	2N86A		Window Frame	Wood	Intact	White	0
2059	Bldg 52 - 2nd Floor	2S53	1	Wall	Drywall	Intact	White	-0.2



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2060	Bldg 52 - 2nd Floor	2S53	2	Wall	Drywall	Intact	White	0.1
2061	Bldg 52 - 2nd Floor	2S53	3	Wall	Drywall	Intact	White	-0.2
2062	Bldg 52 - 2nd Floor	2S53	4	Wall	Drywall	Intact	White	0.1
2063	Bldg 52 - 2nd Floor	2S53		Door Frame	Metal	Intact	Gray	0.5
2064	Bldg 52 - 2nd Floor	2S53		Door Frame	Metal	Intact	Brown	-0.3
2065	Bldg 52 - 2nd Floor	2S53		Door Panel	Metal	Intact	Brown	0
2066	Bldg 52 - 2nd Floor	2S53		4x6 Wall Tile	Ceramic	Intact	Light Green	2.1
2067	Bldg 52 - 2nd Floor	2S53		4x6 Wall Tile	Ceramic	Intact	Dark Green	3.8
2068	Bldg 52 - 2nd Floor	2S53		Fire Sprinkler Line	Metal	Intact	Brown	0
2069	Bldg 52 - 2nd Floor	2S53		FA System Conduit	Metal	Intact	Red	0
2070	Bldg 52 - 2nd Floor	2S53		Ceiling	Concrete	Intact	Gray	-0.4
2071	Bldg 52 - 1st Floor	1S33		Ceiling	Concrete	Intact	Gray	0
2072	Bldg 51 - 1st Floor	BE111		Ceiling	Concrete	Intact	White	0.2
2073	Bldg 51 - 1st Floor	BE111	1	Wall	Glaze Block	Intact	Light Beige	-0.3
2074	Bldg 51 - 1st Floor	BE111	1	Wall	Glaze Block	Intact	Dark Beige	2.8
2075	Bldg 51 - 1st Floor	BE111	1	Wall	Glaze Block	Intact	Light Beige	-0.2
2076	Bldg 51 - 1st Floor	BE111	1	Wall	Glaze Block	Intact	Dark Beige	3.3
2077	Bldg 51 - 1st Floor	BE111	1	Wall (Floor)	Glaze Block	Intact	Light Beige	0.1
2078	Bldg 51 - 1st Floor	BE111	1	Wall (Floor)	Glaze Block	Intact	Dark Beige	1.5



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2084	Calibration							1.1
2085	Calibration							1
2086	Calibration							1
2087	Bldg 2 - 1st Floor	111		Ceiling	Plaster	Poor	White	4.3
2088	Bldg 2 - 1st Floor	111		Beam	Plaster	Poor	White	0.3
2089	Bldg 2 - 1st Floor	209		Ceiling	Plaster	Poor	White	22.4
2090	Bldg 2 - 1st Floor	Outside G03		Ceiling	Plaster	Poor	White	0.4
2091	Bldg 1 - G Floor	H003		Ceiling	Plaster	Deteriorated	White	7.7
2092	Bldg 1 - G Floor	GE02		Ceiling	Plaster	Deteriorated	White	19.1
2093	Bldg 1 - G Floor	Hallway Outside 121		Ceiling	Plaster	Intact	White	1.5
2094	Bldg 1 - G Floor	Hallway Outside 121		Beam	Concrete	Intact	White	4
2095	Calibration							1.1
2096	Calibration							1
2097	Calibration							1
2098	Bldg 1 - 1st Floor	H107		Ceiling	Plaster	Intact	Blue	0
2099	Bldg 1 - 1st Floor	C121A	2	Wall	Drywall	Intact	White	0
2100	Bldg 1 - 1st Floor	C121A	3	Wall	Drywall	Intact	White	0
2101	Bldg 1 - 1st Floor	H107 outside C121A	1	Wall	Plaster	Intact	White	-0.1



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2102	Bldg 1 - 1st Floor	C123A	2	Wall	Drywall	Intact	White	0.2
2103	Bldg 1 - 1st Floor	C123A	3	Wall	Plaster	Intact	White	6.2
2104	Bldg 1 - 1st Floor	C123A	1	Wall	Drywall	Intact	Blue	-0.2
2105	Bldg 1 - 1st Floor	C123A		Ceiling	Plaster	Intact	White	0
2106	Bldg 1 - 1st Floor	C121A		Ceiling	Plaster	Intact	Green	6.6
2107	Bldg 1 - 1st Floor	C121A	2	Wall	Plaster	Intact	Green	3.4
2108	Bldg 1 - 1st Floor	C121A	4	Wall	Drywall	Intact	White	0.1
2109	Bldg 1 - 1st Floor	H107A outside 119A	1	Wall	Plaster	Intact	White	-0.1
2110	Bldg 1 - 1st Floor	C113	4	Wall	Plaster	Poor	White	0.1
2111	Bldg 1 - 1st Floor	C113	2	Wall	Plaster	Intact	White	0.1
2112	Bldg 1 - 1st Floor	C113		Ceiling	Plaster	Poor	White	17.1
2113	Bldg 1 - 1st Floor	C113		Sink	Ceramic	Intact	White	-0.3
2114	Bldg 1 - 1st Floor	C113	3	Wall	Plaster	Intact	White	8.7
2115	Bldg 1 - 1st Floor	C110	2	Wall	Drywall	Intact	White	0
2116	Bldg 1 - 1st Floor	C110	4	Wall	Drywall	Intact	White	0
2117	Bldg 1 - 1st Floor	H111		Ceiling	Plaster	Intact	Green	23.1
2118	Bldg 1 - 1st Floor	H111 NEAR DATA PORT	1	Wall	Plaster	Intact	White	-0.1
2119	Bldg 1 - 1st Floor	H114	2	Wall	Plaster	Intact	White	0



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2120	Bldg 1 - 1st Floor	H114	3	Wall	Plaster	Intact	White	0.2
2121	Bldg 1 - 1st Floor	C106	4	Wall	Drywall	Intact	White	0
2122	Bldg 1 - 1st Floor	C106	2	Wall	Drywall	Intact	White	0
2123	Bldg 1 - 1st Floor	H115		Ceiling	Plaster	Intact	Beige	7.3
2124	Bldg 1 - 1st Floor	H117 NEAR 1W27		Wall	Plaster	Intact	White	0.2
2125	Bldg 1 - 1st Floor	H117A	2	Wall	Drywall	Intact	White	-0.1
2126	Bldg 1 - 1st Floor	H117A	4	Wall	Drywall	Intact	White	0.1
2127	Bldg 1 - 1st Floor	H117		Ceiling	Plaster	Intact	White	0
2128	Bldg 1 - 1st Floor	1W30	2	Wall	Drywall	Intact	White	0
2129	Bldg 1 - 1st Floor	1W30	1	Wall	Plaster	Intact	White	7.5
2130	Bldg 1 - 1st Floor	1W30	3	Wall	Drywall	Intact	White	0
2131	Bldg 1 - 1st Floor	1W30	4	Wall	Drywall	Intact	White	0.1
2132	Bldg 1 - 1st Floor	1W30		Ceiling	Plaster	Intact	White	-0.2
2133	Bldg 1 - 1st Floor	1W30		Ceiling	Plaster	Intact	White	-0.1
2134	Bldg 1 - 1st Floor	1W30	3	Wall	Plaster	Intact	White	12
2135	Bldg 1 - 1st Floor	H117 near 1W18		Wall	Plaster	Intact	White	0
2136	Bldg 1 - 1st Floor	1W30A	1	Wall	Plaster	Intact	White	-0.1
2137	Bldg 1 - 1st Floor	1W30A	3	Wall	Plaster	Intact	Blue	11.9



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2138	Bldg 1 - 1st Floor	1W30A	4	Wall	Drywall	Intact	White	0.1
2139	Bldg 1 - 1st Floor	1W30A		Ceiling	Plaster	Intact	White	-0.2
2140	Bldg 1 - 1st Floor	1W30A	1	Wall	Plaster	Intact	White	7.4
2141	Bldg 1 - 1st Floor	H118		Ceiling	Plaster	Intact	Beige	-0.1
2142	Bldg 1 - 1st Floor	H118 outside 1W15		Wall	Plaster	Intact	White	0.2
2143	Bldg 1 - 1st Floor	1W13	3	Wall	Plaster	Intact	White	0
2144	Bldg 1 - 1st Floor	1W13	3	Wall	Plaster	Intact	White	-0.2
2145	Bldg 1 - 1st Floor	1W08B	2	Wall	Plaster	Intact	Blue	12.8
2146	Bldg 1 - 1st Floor	1W08B	4	Wall	Plaster	Intact	Blue	-0.1
2147	Bldg 1 - 1st Floor	1W08B	1	Wall	Wood Panel	Intact	White	4.9
2148	Bldg 1 - 1st Floor	1W08B	2	Wall	Wood Panel	Intact	White	3.4
2149	Bldg 1 - 1st Floor	1W08B		Ceiling	Plaster	Intact	White	-0.3
2150	Bldg 1 - 1st Floor	1W08B		Ceiling	Plaster	Poor	Beige	6.2
2151	Bldg 1 - 1st Floor	1W08A	1	Wall	Plaster	Intact	Blue	-0.1
2152	Bldg 1 - 1st Floor	1W08A	2	Wall	Plaster	Intact	Blue	16.4
2153	Bldg 1 - 1st Floor	1W08A	1	Wall	Wood Panel	Intact	White	5.9
2154	Bldg 1 - 1st Floor	1W08A	4	Wall	Wood Panel	Intact	White	4.9
2155	Bldg 1 - 1st Floor	1W08A		Ceiling	Plaster	Intact	White	-0.3
2156	Bldg 1 - 1st Floor	1W07	1	Wall	Plaster	Intact	Blue	-0.3



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2157	Bldg 1 - 1st Floor	1W07	2	Wall	Plaster	Intact	Blue	11.5
2158	Bldg 1 - 1st Floor	1W07	3	Wall	Plaster	Intact	Blue	-0.1
2159	Bldg 1 - 1st Floor	H117 outside		Ceiling	Plaster	Intact	Beige	-0.1
2160	Bldg 1 - 1st Floor	H117 outside		Wall	Plaster	Intact	Green	17.6
2161	Bldg 1 - 1st Floor	1W02	3	Wall	Drywall	Intact	White	0.2
2162	Bldg 1 - 1st Floor	1W02	4	Wall	Ceramic Tile	Intact	Peach	15
2163	Bldg 1 - 1st Floor	1W02		Ceiling	Plaster	Poor	White	13.6
2164	Bldg 1 - 1st Floor	1W02		Floor	Ceramic Tile	Intact	Black	0.1
2165	Bldg 1 - 1st Floor	1W02		Floor	Ceramic Tile	Intact	Red	0.3
2166	Bldg 1 - 1st Floor	1W02		Floor	Ceramic Tile	Intact	Red	0.3
2167	Bldg 2 – 1 st Floor	2W18	1	Wall	Plaster	Intact	White	0.2
2168	Bldg 2 - 2nd Floor	2W18	3	Wall	Drywall	Intact	Pink	10.4
2169	Bldg 2 - 2nd Floor	2W18	4	Wall	Drywall	Intact	White	0
2170	Bldg 2 - 2nd Floor	H209 near 2W06		Ceiling	Plaster	Intact	Beige	0.2
2171	Bldg 2 - 2nd Floor	2W06	4	Wall	Plaster	Intact	White	-0.2
2172	Bldg 2 - 2nd Floor	2W06	4	Wall	Plaster	Intact	White	1.8
2173	Bldg 2 - 2nd Floor	2W06	1	Wall	Plaster	Intact	Beige	0.2
2174	Bldg 2 - 2nd Floor	2W06	1	Wall	Plaster	Intact	Beige	10.1
2175	Bldg 2 - 2nd Floor	2W05	4	Wall	Ceramic Tile	Intact	Blue	20.8



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2176	Bldg 2 - 2nd Floor	2W05	4	Wall	Ceramic Tile	Intact	Gray	2
2177	Bldg 2 - 2nd Floor	2W05	4	Wall	Plaster	Intact	White	-0.4
2178	Bldg 2 - 2nd Floor	2W05		Floor	Ceramic Tile	Intact	Green	0.1
2179	Bldg 2 - 2nd Floor	H206 near 2C19		Wall	Plaster	Intact	White	0.6
2180	Bldg 2 - 2nd Floor	H207 near 2W24		Ceiling	Plaster	Intact	Beige	0.2
2181	Bldg 2 - 2nd Floor	H207 near 2W24		Wall	Plaster	Intact	Beige	0
2182	Bldg 2 - 2nd Floor	H207 near 2W24		Wall	Plaster	Intact	Beige	0
2183	Bldg 2 - 2nd Floor	H207 near 2W28C		Ceiling	Plaster	Intact	Beige	15.3
2185	Calibration							1.1
2186	Calibration							1
2187	Calibration							1
2188	Bldg 1 - 2nd Floor	2W29	1	Wall	Plaster	Intact	White	-0.3
2189	Bldg 1 - 2nd Floor	2W29	2	Wall	Plaster	Intact	White	-0.3
2190	Bldg 1 - 2nd Floor	2W29	3	Wall	Plaster	Intact	White	0
2191	Bldg 1 - 2nd Floor	2W29	4	Wall	Plaster	Intact	White	-0.2
2192	Bldg 1 - 2nd Floor	2W29		Sink	Ceramic	Intact	White	-0.2
2193	Bldg 1 - 2nd Floor	2W28A	1	Wall	Plaster	Intact	White	-0.1



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2194	Bldg 1 - 2nd Floor	2W28A	2	Wall	Ceramic Tile	Intact	White	-0.2
2195	Bldg 1 - 2nd Floor	2W28A	3	Wall	Plaster	Intact	White	0
2196	Bldg 1 - 2nd Floor	2W28A	4	Wall	Plaster	Intact	White	-0.4
2197	Bldg 1 - 2nd Floor	2W28A	4	Wall	Plaster	Intact	White	0.1
2198	Bldg 1 - 2nd Floor	2W28A		Sink	Ceramic	Intact	White	-0.3
2199	Bldg 1 - 2nd Floor	2C20	4	Wall	Plaster	Intact	White	0.2
2200	Bldg 1 - 2nd Floor	2C20	2	Wall	Plaster	Intact	Yellow	6.3
2201	Bldg 1 - 2nd Floor	2C20	3	Wall	Plaster	Intact	White	0
2202	Bldg 1 - 2nd Floor	2C21	2	Wall	Ceramic Tile	Intact	White	2.3
2203	Bldg 1 - 2nd Floor	2C21		Ceiling	Plaster	Intact	White	0.1
2204	Bldg 1 - 2nd Floor	2C02	2	Wall	Drywall	Intact	Brown	-0.1
2205	Bldg 1 - 2nd Floor	2C02	2	Wall	Plaster	Intact	Brown	8.1
2206	Bldg 1 - 2nd Floor	2C02	2	Wall	Drywall	Intact	Beige	0.1
2207	Bldg 1 - 2nd Floor	2C02	2	Wall	Plaster	Intact	Beige	8.7
2208	Bldg 1 - 2nd Floor	2C02		Ceiling	Plaster	Intact	White	4.9
2209	Bldg 1 - 2nd Floor	2C01A	3	Wall	Drywall	Intact	White	0
2210	Bldg 1 - 2nd Floor	2C01A	4	Wall	Plaster	Intact	White	0.3
2211	Bldg 1 - 2nd Floor	2C01A		Ceiling	Plaster	Intact	White	0.3
2212	Bldg 1 - 2nd Floor	2C01B	3	Wall	Plaster	Intact	Blue	0



TABLE 2: LEAD XRF SAMPLING SUMMARY

Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2213	Bldg 1 - 2nd Floor	2C01B		Ceiling	Plaster	Intact	Off-White	6
2214	Bldg 1 - 2nd Floor	2C01		Ceiling	Plaster	Intact	Off-White	12.1
2215	Bldg 1 - 2nd Floor	2C01A		Ceiling	Plaster	Intact	Off-White	11.3
2216	Bldg 1 - 2nd Floor	2C01		Wall	Plaster	Intact	White	0
2217	Bldg 1 - 2nd Floor	H204 near 2C08		Wall	Plaster	Intact	White	0.6
2218	Bldg 1 - 2nd Floor	H204 near 2C03		Wall	Plaster	Intact	White	0.9
2219	Bldg 1 - 2nd Floor	H204 near 2C11		Wall	Plaster	Intact	White	0.1
2220	Bldg 1 - 2nd Floor	H204 near 2C01		Wall	Plaster	Intact	White	0.1
2221	Bldg 1 - 2nd Floor	H204 near 2C01		Wall	Plaster	Intact	White	0.2
2222	Bldg 1 - 2nd Floor	H204 near 2C01		Wall	Plaster	Intact	White	0.1
2223	Bldg 1 - 2nd Floor	H204 near 2C09		Ceiling	Plaster	Intact	Beige	0
2224	Bldg 1 - 2nd Floor	E310	2	Wall	Drywall	Intact	White	-0.3
2225	Bldg 1 - 2nd Floor	E305	3	Wall	Plaster	Intact	Blue	0
2226	Bldg 1 - 2nd Floor	E305	4	Wall	Drywall	Intact	White	-0.3
2227	Bldg 1 - 2nd Floor	E305	1	Wall	Plaster	Intact	White	0.1
2228	Bldg 1 - 2nd Floor	E305	2	Wall	Drywall	Intact	White	0
2229	Bldg 1 - 2nd Floor	E305	3	Wall	Plaster	Intact	White	-0.2



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TABLE 2: LEAD XRF SAMPLING SUMMARY

Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2230	Bldg 1 - 2nd Floor	E305	4	Wall	Drywall	Intact	White	0.2
2231	Bldg 1 - 2nd Floor	E305		Ceiling	Plaster	Intact	White	0.5
2232	Bldg 1 - 2nd Floor	E304A		Ceiling	Plaster	Intact	Off-White	6.2
2233	Bldg 1 - 2nd Floor	E303		Ceiling	Plaster	Intact	White	0.1
2234	Bldg 1 - 2nd Floor	E309 Outside		Wall	Plaster	Intact	White	-0.1
2235	Bldg 1 - 2nd Floor	H301 near E301		Ceiling	Plaster	Intact	White	0
2236	Bldg 1 - 2nd Floor	H301 near E312		Wall	Plaster	Intact	White	0.1
2237	Bldg 1 - 2nd Floor	C303	4	Wall	Plaster	Intact	White	9.4
2238	Bldg 1 - 2nd Floor	C303		Ceiling	Plaster	Intact	White	0.3
2239	Bldg 1 - 2nd Floor	C303	4	Wall	Plaster	Intact	Green	0.5
2240	Bldg 1 - 2nd Floor	C303	4	Wall	Plaster	Intact	Blue	1.4
2241	Bldg 1 - 2nd Floor	H303 near window		Wall	Plaster	Intact	White	-0.1
2242	Bldg 1 - 2nd Floor	H303 near window		Window Sill	Wood	Intact	White	10.2
2243	Bldg 1 - 2nd Floor	H303 near window		Ceiling	Plaster	Intact	Beige	0.2
2244	Bldg 1 - 2nd Floor	H303 near window		Ceiling	Plaster	Intact	White	-0.1
2245	Bldg 1 - 2nd Floor	H303 Hallway near 3C09		Wall	Plaster	Intact	White	0.2
2246	Bldg 1 - 2nd Floor	H308		Wall	Plaster	Intact	Purple	-0.1



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TABLE 2: LEAD XRF SAMPLING SUMMARY

Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2247	Bldg 1 - 2nd Floor	H308		Wall	Plaster	Intact	Purple	-0.2
2248	Bldg 1 - 2nd Floor	H307		Wall	Plaster	Intact	Purple	16.2
2249	Bldg 1 - 2nd Floor	H307		Wall	Plaster	Intact	Purple	26
2250	Bldg 1 - 2nd Floor	H309		Wall	Plaster	Intact	Purple	-0.2
2251	Bldg 1 - 2nd Floor	H309		Wall	Plaster	Intact	Purple	6.9
2252	Bldg 1 - 2nd Floor	H309		Ceiling	Plaster	Intact	Beige	-0.1
2253	Bldg 1 - 2nd Floor	H309		Ceiling	Plaster	Intact	Brown	0.1
2254	Bldg 1 - 2nd Floor	H309	2	Wall	Plaster	Intact	White	-0.1
2255	Bldg 1 - 2nd Floor	H307		Ceiling	Plaster	Intact	Off-White	4.9
2256	Bldg 1 - 2nd Floor	H307		Wall	Plaster	Intact	Green	21
2257	Bldg 1 - 2nd Floor	H307		Wall	Plaster	Intact	Blue	12
2258	Bldg 1 - 2nd Floor	H308		Wall	Plaster	Intact	Blue	7.6
2259	Bldg 1 - 2nd Floor	H308		Ceiling	Concrete	Intact	Off-White	0.5
2260	Bldg 1 - 2nd Floor	H308		Wall	Plaster	Intact	Pink	9.3
2261	Bldg 1 - 2nd Floor	H308		Wall	Plaster	Intact	Green	10.1
2262	Bldg 1 - 2nd Floor	W308	4	Wall	Drywall	Intact	Wallpaper/flowers	0.2
2263	Bldg 1 - 2nd Floor	W308	2	Wall	Drywall	Intact	Blue	-0.1
2264	Bldg 1 - 2nd Floor	W302	2	Wall	Drywall	Intact	Blue	0
2265	Bldg 1 - 2nd Floor	W302	4	Wall	Drywall	Intact	Blue	-0.1



TABLE 2: LEAD XRF SAMPLING SUMMARY

Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2266	Bldg 1 - 2nd Floor	W302		Ceiling	Plaster	Intact	Off-White	12.9
2301	Calibration							1
2302	Calibration							1
2303	Calibration							1
2304	Bldg 1 – 1st Floor	1W01	1	Wall	Plaster	Intact	Beige	0
2305	Bldg 1 – 1st Floor	1W01	2	Wall	Plaster	Intact	Beige	-0.1
2306	Bldg 1 – 1st Floor	1W01	3	Wall	Plaster	Intact	Beige	8
2307	Bldg 1 – 1st Floor	1W01	4	Wall	Plaster	Intact	Beige	5.3
2308	Bldg 1 – 1st Floor	1W01	1	Door Frame	Metal	Intact	Gray	-0.2
2309	Bldg 1 – 1st Floor	1W01	1	Door Panel	Wood	Intact	Natural	-0.1
2310	Bldg 1 – 1st Floor	1W01	3	Door Frame	Metal	Intact	Gray	0.1
2311	Bldg 1 – 1st Floor	1W01	3	Door Panel	Wood	Intact	Natural	-0.1
2312	Bldg 1 – 1st Floor	1W01		Ceiling	Plaster	Intact	Beige	-0.3
2313	Bldg 1 – 1st Floor	1W01		Fire Sprinkler Line	Metal	Intact	Red	0.5
2314	Bldg 1 – 1st Floor	1W01	3	Grille (in Chase)	Metal	Intact	Beige	8.9
2315	Bldg 1 – 1st Floor	1W01		Data Rack	Metal	Intact	Black	0.1
2316	Bldg 1 – 1st Floor	1E15		Ceiling	Plaster	Intact	White	5.4
2317	Bldg 25 – 3rd Floor	313A	1	Wall	Drywall	Intact	White	-0.1
2318	Bldg 25 – 3rd Floor	313A	2	Wall	Drywall	Intact	White	-0.1



TABLE 2: LEAD XRF SAMPLING SUMMARY

Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2319	Bldg 25 – 3rd Floor	313A	3	Wall	Drywall	Intact	White	-0.2
2320	Bldg 25 – 3rd Floor	313A	4	Wall	Drywall	Intact	White	0.1
2321	Bldg 25 – 3rd Floor	313A		Door Frame	Metal	Intact	Gray	0.3
2322	Bldg 25 – 3rd Floor	313A		Door Panel	Wood	Intact	Stained	-0.1
2323	Bldg 25 – 3rd Floor	313A		Window Frame	Aluminum	Intact	White	-0.1
2324	Bldg 25 – 3rd Floor	313A		Steam Convect Unit	Metal	Intact	Beige	0.1
2325	Bldg 25 – 2nd Floor	204B	1	Wall	Drywall	Intact	Wallpaper	-0.1
2326	Bldg 25 – 2nd Floor	204B	2	Wall	Drywall	Intact	Blue	-0.1
2327	Bldg 25 – 2nd Floor	204B	3	Wall	Drywall	Intact	Blue	0.1
2328	Bldg 25 – 2nd Floor	204B	4	Wall	Drywall	Intact	Wallpaper	-0.1
2329	Bldg 25 – 2nd Floor	204B	1	Door Frame	Metal	Intact	Beige	0.5
2330	Bldg 25 – 2nd Floor	204B	1	Door Frame	Metal	Intact	Purple	0.4
2331	Bldg 25 – 2nd Floor	204B	1	Door Panel	Wood	Intact	Natural	-0.1
2332	Bldg 25 – 2nd Floor	204B		Window Frame	Aluminum	Intact	White	-0.2
2333	Bldg 25 – 2nd Floor	204B		Steam Convect Unit	Metal	Intact	Purple	0
2334	Bldg 25 – 2nd Floor	204B		Steam Convect Unit	Metal	Intact	Beige	-0.1
2335	Bldg 25 – 2nd Floor	204B		Chase	Drywall	Intact	Beige	-0.1
2336	Bldg 25 – 2nd Floor	204B		Ceiling	Concrete	Intact	Gray	0



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TABLE 2: LEAD XRF SAMPLING SUMMARY

Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2337	Bldg 25 – 2nd Floor	204B		Fire Sprinkler Line	Metal	Intact	Gray	-0.2
2338	Bldg 25 – 1st Floor	117A	1	Wall	Drywall	Intact	White	-0.3
2339	Bldg 25 – 1st Floor	117A	2	Wall	Drywall	Intact	White	-0.1
2340	Bldg 25 – 1st Floor	117A	3	Wall	Drywall	Intact	White	0
2341	Bldg 25 – 1st Floor	117A	4	Wall	Drywall	Intact	White	-0.1
2342	Bldg 25 – 1st Floor	117A		Door Frame	Metal	Intact	Gray	0.3
2343	Bldg 25 – 1st Floor	117A		Door Panel	Wood	Intact	Natural	-0.1
2344	Bldg 25 – 1st Floor	117A		Window Frame	Metal	Intact	White	-0.1
2345	Bldg 25 – 1st Floor	117A		Steam Convect Unit	Metal	Intact	Purple	0.1
2346	Bldg 25 – 1st Floor	117A		Windowsill	Wood	Intact	White	0
2347	Bldg 25 – 1st Floor	117A		Fire Sprinkler Line	Metal	Intact	Gray	0.1
2348	Bldg 25 – 1st Floor	117A		Fire Alarm Conduit	Metal	Intact	Red	0.1
2349	Bldg 25 – 1st Floor	117A		Ceiling	Concrete	Intact	Gray	0
2350	Bldg 25 – 1st Floor	113		Ceiling	Concrete	Intact	Gray	0
2351	Calibration							1
2352	Calibration							0.9
2353	Calibration							1
2354	Bldg 2 – Basement	G03	1	Wall	Drywall	Intact	White	-0.2



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TABLE 2: LEAD XRF SAMPLING SUMMARY

Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2355	Bldg 2 – Basement	G03	2	Wall	Drywall	Intact	White	-0.1
2356	Bldg 2 – Basement	G03	3	Wall	Plaster	Intact	White	-0.2
2357	Bldg 2 – Basement	G03	4	Wall	Plaster	Intact	White	0.7
2358	Bldg 2 – Basement	G03		Door Frame	Metal	Intact	White	-0.7
2359	Bldg 2 – Basement	G03		Door Panel	Wood	Intact	Natural	-0.6
2360	Bldg 2 – Basement	G03		Grille (in chase)	Metal	Intact	White	-0.4
2361	Bldg 2 – Basement	G03		Ceiling	Plaster	Intact	White	7
2362	Bldg 2 – Basement	G03		Fire Sprinkler Line	Metal	Intact	White	5.6
2363	Bldg 2 – Basement	G03		FCU	Metal	Intact	White	-0.1
2364	Bldg 2 – Basement	G03		Wall Frame	Metal	Intact	White	0
2365	Bldg 2 – Basement	G03	4	Wall	Drywall	Intact	Green	0.5
2366	Bldg 2 – Basement	G03	2 (exterior)	Wall	Drywall	Intact	White	0.1
2367	Bldg 2 – Basement	G03	2 (exterior)	Wall	Drywall	Intact	White	0
2368	Bldg 2 – Basement	G03	2 (exterior)	Wall	Drywall	Intact	Green	-0.1
2369	Bldg 1 – Basement	GC16A	1	Wall	Concrete	Intact	White	0.1
2370	Bldg 1 – Basement	GC16A	2	Wall	Concrete	Intact	White	0.1
2371	Bldg 1 – Basement	GC16A	3	Wall	Concrete	Intact	White	0.4
2372	Bldg 1 – Basement	GC16A	4	Wall	Concrete	Intact	White	0.9
2373	Bldg 1 – Basement	GC16A	4	Wall	Concrete	Intact	White	0.8



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TABLE 2: LEAD XRF SAMPLING SUMMARY

Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2374	Bldg 1 – Basement	GC16A		Door Frame	Metal	Intact	White	7.1
2375	Bldg 1 – Basement	GC16A		Door Panel	Metal	Intact	White	-0.1
2376	Bldg 1 – Basement	GC16A		Ceiling	Concrete	Intact	White	0.8
2377	Bldg 1 – Basement	GC16	1	Wall	Concrete	Intact	White	0.3
2378	Bldg 1 – Basement	GC16	2	Wall	Concrete	Intact	White	0.2
2379	Bldg 1 – Basement	GC16	3	Wall	Concrete	Intact	White	0.3
2380	Bldg 1 – Basement	GC16	4	Wall	Concrete	Intact	White	0.1
2381	Bldg 1 – Basement	GC16		Ceiling	Concrete	Intact	White	-0.2
2382	Bldg 57 – 1 st Floor	1B-139		I-Beam	Steel	Intact	Gray	-0.3
2383	Bldg 57 – 1 st Floor	1B-139		Fire Alarm Conduit	Metal	Intact	Red	0
2384	Bldg 57 – 1 st Floor	1B-139		Fire Alarm Conduit	Metal	Intact	Red	0.3
2385	Bldg 57 – 1 st Floor	1B-139		Fire Sprinkler Line	Metal	Intact	Black	0.2
2386	Bldg 57 – 1 st Floor	1B-120		I-Beam	Steel	Intact	White	0.3
2387	Bldg 57 – 1 st Floor	1B-120		Ceiling	Metal	Intact	White	-0.2
2388	Bldg 51 – 1 st Floor	1A139		Ceiling	Drywall	Intact	White	0.1
2389	Bldg 51 – 1 st Floor	1A139	1	Wall	Drywall	Intact	Light Blue	-0.1
2390	Bldg 51 – 1 st Floor	1A139	2	Wall	Drywall	Intact	Light Blue	0
2391	Bldg 51 – 1 st Floor	1A139	3	Wall	Drywall	Intact	White	-0.1
2392	Bldg 51 – 1 st Floor	1A139	4	Wall	Drywall	Intact	White	-0.2



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TABLE 2: LEAD XRF SAMPLING SUMMARY

Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2393	Bldg 51 – 1 st Floor	1A139		Window Frame	Aluminum	Intact	Beige	-0.4
2394	Bldg 51 – 1 st Floor	1A139		Door Frame	Metal	Intact	Beige	-0.2
2395	Bldg 51 – 1 st Floor	1A139		Door Panel	Wood	Intact	Stained	0
2396	Bldg 51 – 1 st Floor	1A139		Door Frame	Metal	Intact	Beige	0
2397	Bldg 51 – 1 st Floor	1A139		Door Panel	Wood	Intact	Stained	-0.2
2398	Bldg 51 – 1 st Floor	1A139		FCU	Metal	Intact	Beige	-0.1
2399	Bldg 60 – 1 st Floor	102		Light Fixture	Metal	Intact	Beige	0
2400	Bldg 52 – 2 nd Floor	2N91		Light Fixture	Metal	Intact	Beige	0.1
2401	Bldg 52 – 2 nd Floor	2N91	1	Wall	Plaster	Intact	White	0.1
2402	Bldg 52 – 2 nd Floor	2N91	2	Wall	Plaster	Intact	White	0.2
2403	Bldg 52 – 2 nd Floor	2N91	3	Wall	Plaster	Intact	White	0.2
2404	Bldg 52 – 2 nd Floor	2N91	3	Wall	Plaster	Intact	Brown	0.2
2405	Bldg 52 – 2 nd Floor	2N91		Window Frame	Aluminum	Intact	Silver	0
2406	Bldg 52 – 2 nd Floor	2N91		Window Frame	Metal	Intact	Beige	0.4
2407	Bldg 52 – 2 nd Floor	2N91		Steam Convectector Unit	Metal	Intact	Beige	0.3
2408	Bldg 52 – 2 nd Floor	2N91	4	Wall	Plaster	Intact	White	0.1
2409	Bldg 52 – 2 nd Floor	2N91	4	Wall	Plaster	Intact	Brown	0.2
2410	Bldg 52 – 2 nd Floor	2N91	4	Wall	Plaster	Intact	Pink	0.2
2411	Bldg 52 – 2 nd Floor	2N91		Ceiling	Plaster	Intact	White	-0.1



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Field Sampling on December 29, 2021, January 4, 5, 6, 7, 10, 11, 12, 13, 14 and March 11 and 14, 2022

Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2412	Bldg 52 – 2 nd Floor	2N91		Grille	Metal	Intact	Beige	0.5
2413	Bldg 52 – 2 nd Floor	2N91		Dumb Waiter	Metal	Intact	Silver	0.1
2414	Bldg 52 – 1 st Floor	1S54	1	Wall	Drywall	Intact	Dark Green	0.1
2415	Bldg 52 – 1 st Floor	1S54	2	Wall	Drywall	Intact	Dark Green	-0.2
2416	Bldg 52 – 1 st Floor	1S54	3	Wall	Drywall	Intact	White	0.2
2417	Bldg 52 – 1 st Floor	1S54	4	Wall	Drywall	Intact	Light Green	0.5
2418	Bldg 52 – 1 st Floor	1S54		Door Frame	Metal	Intact	Beige	-0.2
2419	Bldg 52 – 1 st Floor	1S54		Door Frame	Metal	Intact	White	0.5
2420	Bldg 52 – 1 st Floor	1S54		Door Panel	Metal	Intact	White	-0.2
2421	Bldg 52 – 1 st Floor	1S54		Door Panel	Metal	Intact	White	0
2422	Bldg 52 – 1 st Floor	1S54		Ceiling	Plaster	Intact	White	-0.2
2423	Bldg 52 – 1 st Floor	1S54		Structural Beam	Steel	Intact	White	0.1
2424	Bldg 52 – 1 st Floor	1S57	1	Wall	Drywall	Intact	White	0.1
2425	Bldg 52 – 1 st Floor	1S57	2	Wall	Drywall	Intact	Green	0.3
2426	Bldg 52 – 1 st Floor	1S57	3	Wall	Drywall	Intact	White	0
2427	Bldg 52 – 1 st Floor	1S57	4	Wall	Drywall	Intact	White	0.2
2428	Bldg 52 – 1 st Floor	1S57		Door Frame	Metal	Intact	Beige	0.4
2429	Bldg 52 – 1 st Floor	1S57		Door Panel	Metal	Intact	Beige	0
2430	Bldg 52 – 1 st Floor	1S57		Ceiling	Concrete	Intact	Gray	0.3



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Sample No.	Floor Area	Sample Location	Side	Component	Substrate	Condition	Color	Result (mg/cm ²)
2431	Bldg 52 – 1 st Floor	1S57		Fire Sprinkler Line	Metal	Intact	Black	0
2432	Bldg 52 – 1 st Floor	1S57		FCU	Metal	Intact	Beige	0
2433	Bldg 52 – 1 st Floor	1S57		Steam Convect Unit	Metal	Intact	Beige	-0.1
2434	Bldg 52 – 1 st Floor	1S57		Window Frame	Aluminum	Intact	Silver	0.1
2435	Bldg 52 – 1 st Floor	1S57		Window Frame	Metal	Intact	Beige	0.1
2436	Bldg 52 – 1 st Floor	1S57		Structural Beam	Steel	Intact	Beige	0.2

Notes:

- 1) Elevated samples are noted in bold type.
- 2) Elevated samples exceed EPA lead concentration of 1.0 mg/cm²

Recommended Response Actions

Asbestos Containing Materials

Assuming future construction/renovation plans include the demolition, disturbance and/or penetration of noted ACM materials, the following recommendations are provided with regard to their handling:

- A comprehensive asbestos remediation design specification has been developed to govern the proper repair, handling and/or removal of ACM. This specification should be prepared in accordance with current VA, EPA/OSHA/State and Local project design guidelines and should be written to account for the potential disturbance of any ACM, directly or indirectly, during the course of construction related activities.
- Should any identified ACM components require disturbance and/or removal as part of planned renovation plans, such components should be removed in whole or protected in place, as deemed most appropriate by construction needs and/or asbestos remediation project design specifications.
- All ACM removal activity is to be performed by professional asbestos abatement contractors and workers that are licensed in the State of Missouri for such and trained/accredited in accordance with applicable EPA-AHERA training requirements.



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Lead Based Paint / Lead Containing Materials

Lead containing materials where identified are provided within Table 2. Disturbance to window assemblies, door assemblies and various wall and ceiling components will result in impact to LBP. Most other work will not likely impact the known lead containing materials. It is presumed that no new penetrations shall be created during this project. Disturbance or impact to LBP during performance of project work will require controlled removal by trained licensed workers employed by a licensed lead abatement contractor, with all work performed within a negative pressure enclosure, as defined within Technical Specifications.

Riverfront appreciates the opportunity to assist with this project. Please feel free to contact us with any questions or concerns.

Riverfront appreciates the opportunity to assist with this project. It is our intent that this information will assist with project development at this phase. Please feel free to contact us with any questions or concerns.

Sincerely,

Justin R. Rhyneer, CIH
Principal

March 31, 2022
Date

Appendix A: Asbestos Laboratory Results
Appendix B: VA Provided Periodic Surveillance Forms
Appendix C: Professional Certifications



PROJECT NUMBER **657-21-701JB**
PROJECT NAME **JBVAMC EHRM Infrastructure Upgrade Project**
SUBMITTAL **100% Construction Documents**
SUBJECT **Environmental Design Narrative**

Appendix A: Asbestos Laboratory Results



PROJECT NUMBER **657-21-701JB**
PROJECT NAME **JBVAMC EHRM Infrastructure Upgrade Project**
SUBMITTAL **100% Construction Documents**
SUBJECT **Environmental Design Narrative**

Appendix B: VA Provided Periodic Surveillance Forms



PROJECT NUMBER **657-21-701JB**
PROJECT NAME **JBVAMC EHRM Infrastructure Upgrade Project**
SUBMITTAL **100% Construction Documents**
SUBJECT **Environmental Design Narrative**

Appendix C: Professional Certifications

Appendix B- Telecommunication Enclosure Airflow Calculation

Environmental Parameters	Environmental Envelope Requirements of Design alert?		Selected VA Condition for Air Flow Calculation (in between range)	Supply Air Condition
	Min.	Max.		
Temperature DB (°F)	41	95	81	70
RH (%)	8	80	50	50
Dew Point (°F)	less than or equal to 32.4	82.4	60.6	50.5

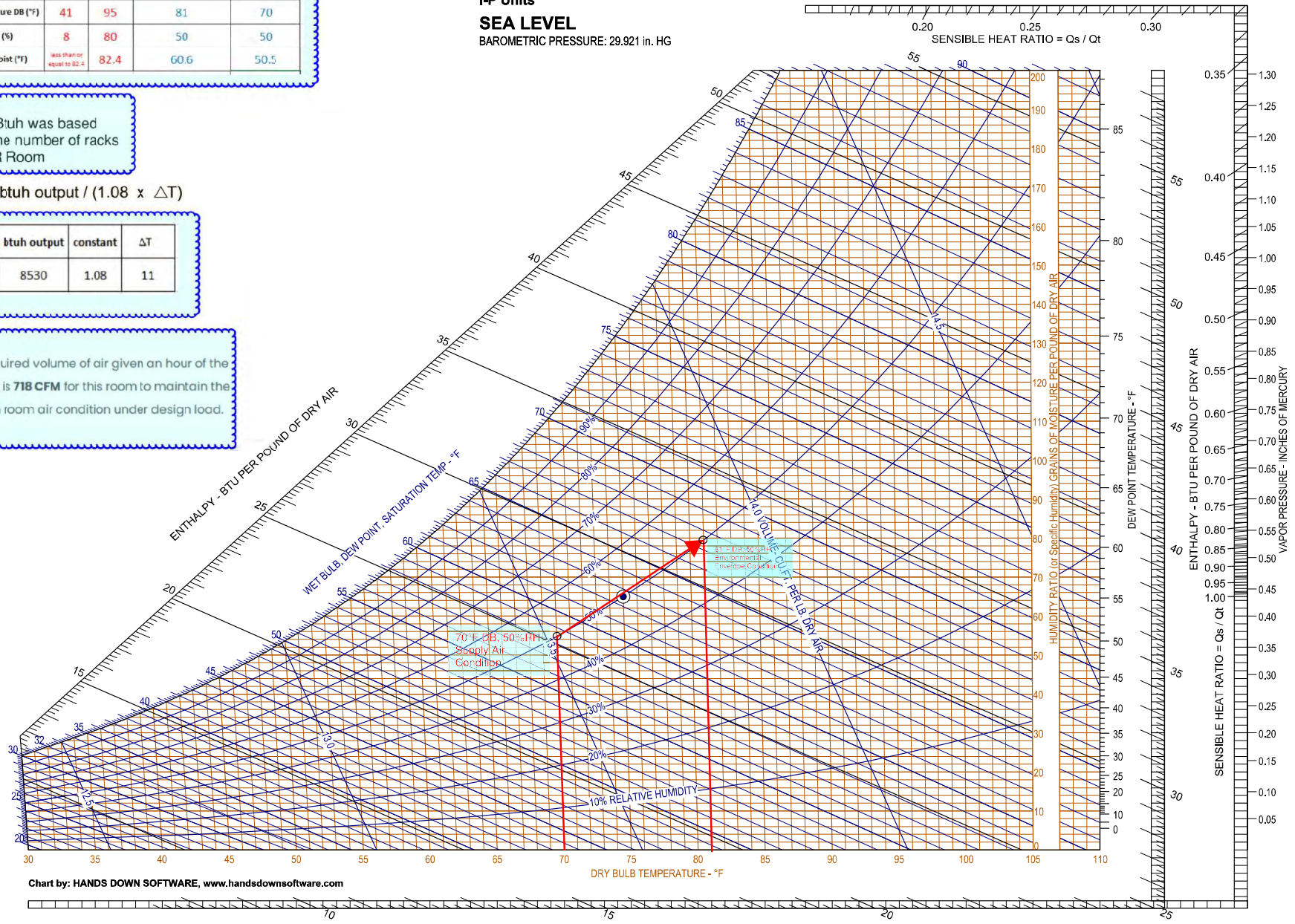
Note:
8530 Btuh was based
from the number of racks
per TR Room

$$\text{CFM} = \text{btuh output} / (1.08 \times \Delta T)$$

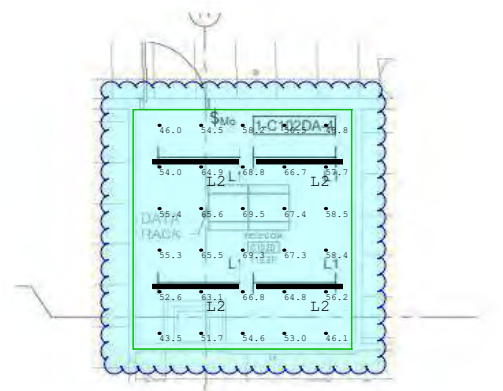
CFM	btuh output	constant	ΔT
718	8530	1.08	11

The required volume of air given an hour of the
runtime is **718 CFM** for this room to maintain the
design room air condition under design load.

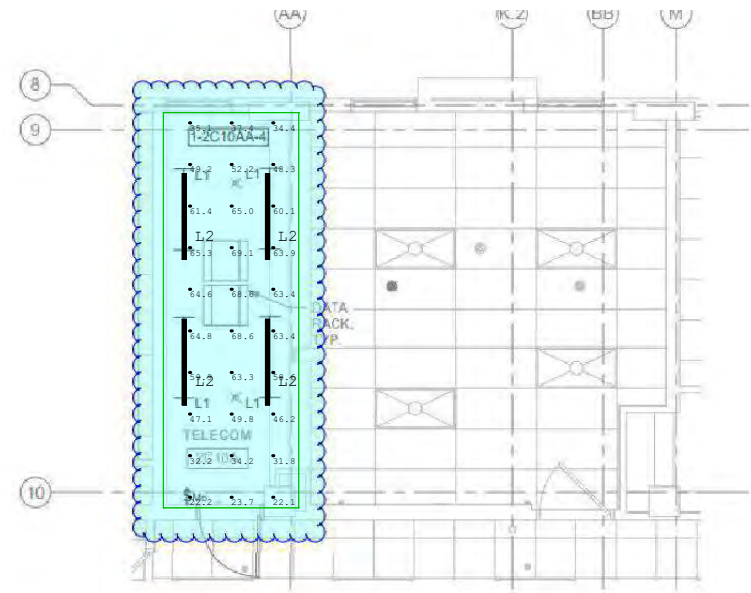
PSYCHROMETRIC CHART **Normal Temperature** **I-P Units** **SEA LEVEL** BAROMETRIC PRESSURE: 29.921 in. HG



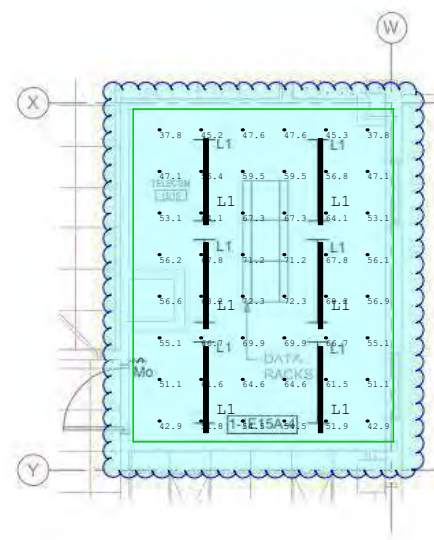
Appendix C- Photometric Calculations



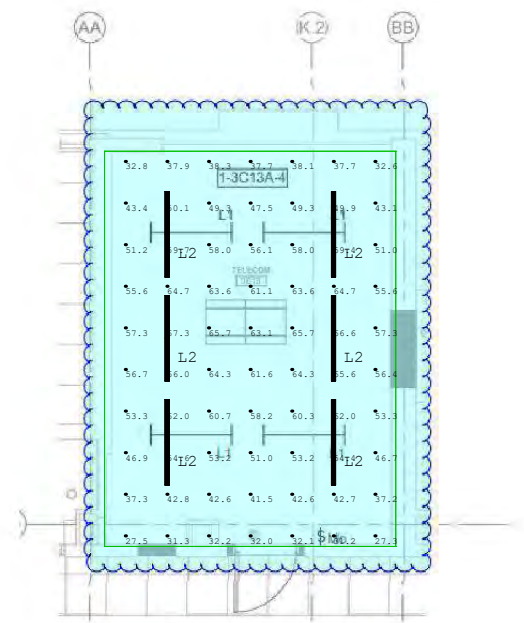
4 RM C102D - LIGHTING PLAN
1/4" = 1'-0"



4 RM 2C10, 2C10 A - LIGHTING PLAN
1/4" = 1'-0"



3 RM 1E15 - LIGHTING PLAN
1/4" = 1'-0"



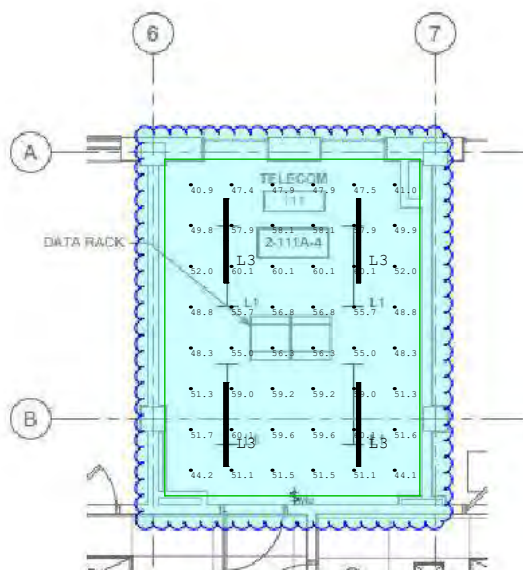
3 RM 3C13 & 3C14 - LIGHTING PLAN
1/4" = 1'-0"

Room Summary		
Label	Type	Wall Height
RM 1E15	Rect-Flat	11
RM 2C10	Rect-Flat	11
RM 3C13	Rect-Flat	11
RM C102D	Rect-Flat	11

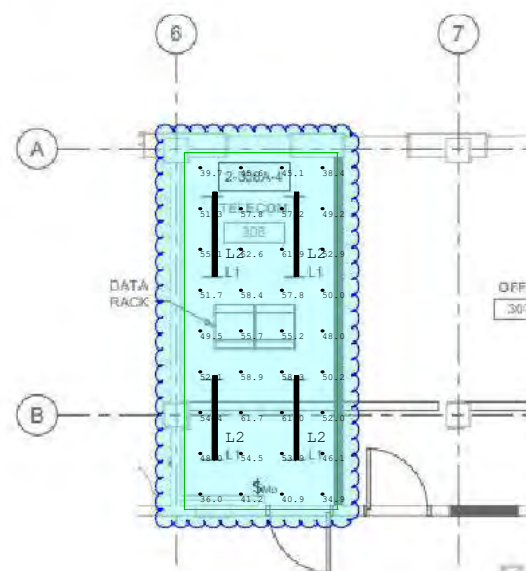
Luminaire Schedule						
Symbol	Qty	Label	LLF	Luminaire Lumens	Luminaire Watts	Tag
	6	4SNLED-LD5-37SL-LW-UNV-L840-C	0.900	3882	30.6	L1
	14	4SNLED-LD5-41SL-LW-UNV-L840-C	0.900	4288	34.6	L2

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
RM 1E15 Workplane	Illuminance	Fc	57.87	72.3	37.8	1.53	1.91
RM 2C10 Workplane	Illuminance	Fc	50.86	69.1	22.1	2.30	3.13
RM 3C13 Workplane	Illuminance	Fc	50.83	67.3	27.3	1.86	2.47
RM C102D Workplane	Illuminance	Fc	58.69	69.5	43.5	1.35	1.60

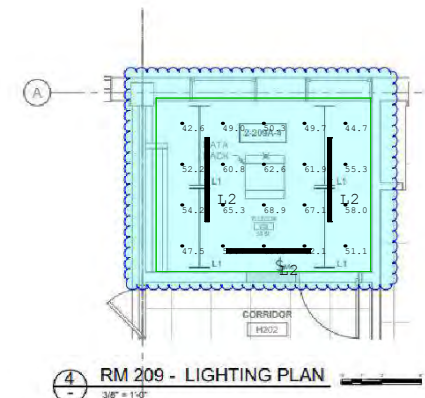
④ RM G03 - LIGHTING PLAN
1/4" = 1'-0"



④ RM 111 - LIGHTING PLAN
1/4" = 1'-0"



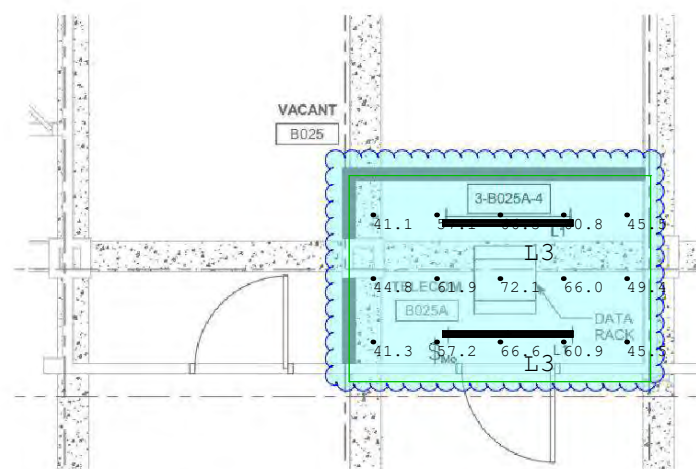
④ RM 308 - LIGHTING PLAN
1/4" = 1'-0"



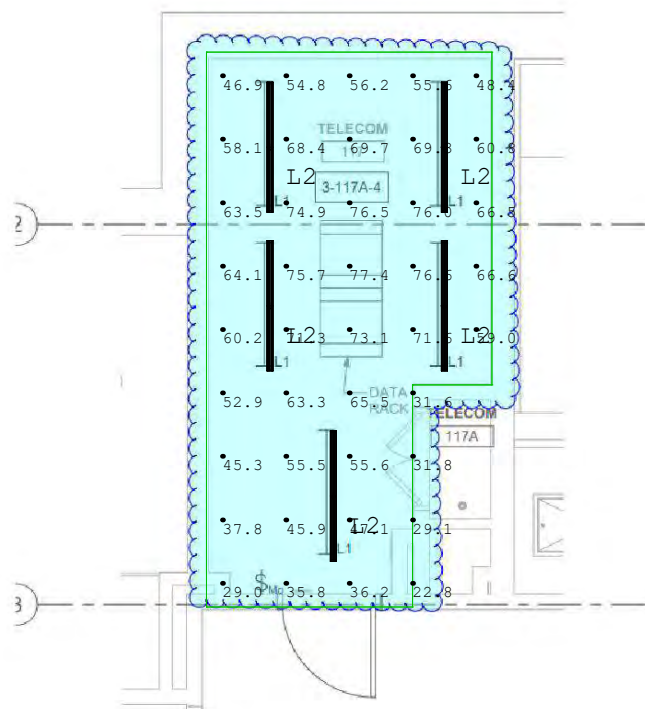
Room Summary	
Label	Wall Height
RM 111	10
RM 209	10
RM 308	10
RM G03	8.5

Luminaire Schedule						
Symbol	Qty	Label	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
■	4	4SNLED-LD5-50SL-LW-UNV-L840-C	0.900	5420	47.1	9.5
■	11	4SNLED-LD5-41SL-LW-UNV-L840-C	0.900	4288	34.6	8.5, 9.5

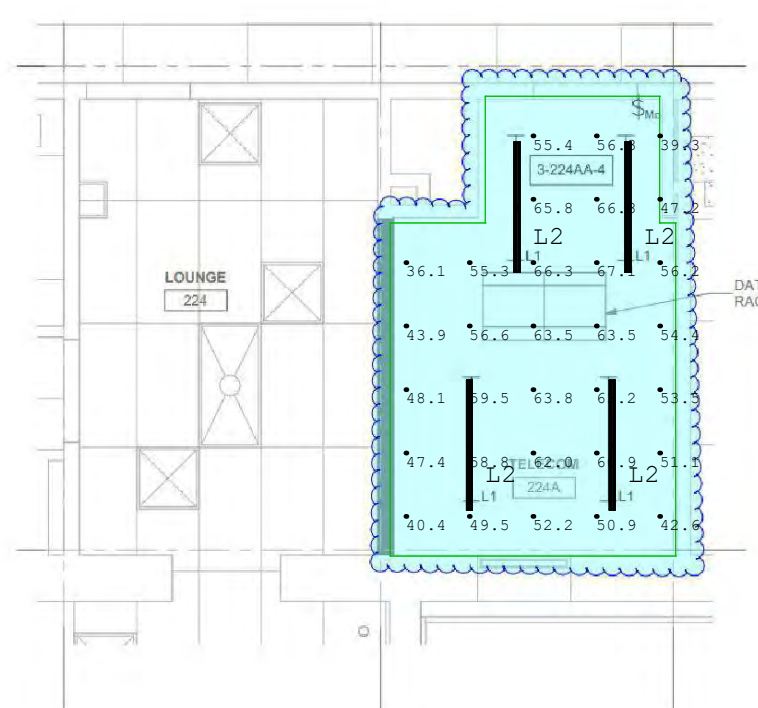
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
RM 111_Workplane	Illuminance	Fc	53.45	60.1	40.9	1.31	1.47
RM 209_Workplane	Illuminance	Fc	56.42	68.9	42.6	1.32	1.62
RM 308_Workplane	Illuminance	Fc	51.31	62.6	34.9	1.47	1.79
RM G03_Workplane	Illuminance	Fc	58.98	74.9	38.4	1.54	1.95



4 RM B025 - LIGHTING PLAN
3/8" = 1'-0"



4 RM 117 - LIGHTING PLAN
3/8" = 1'-0"

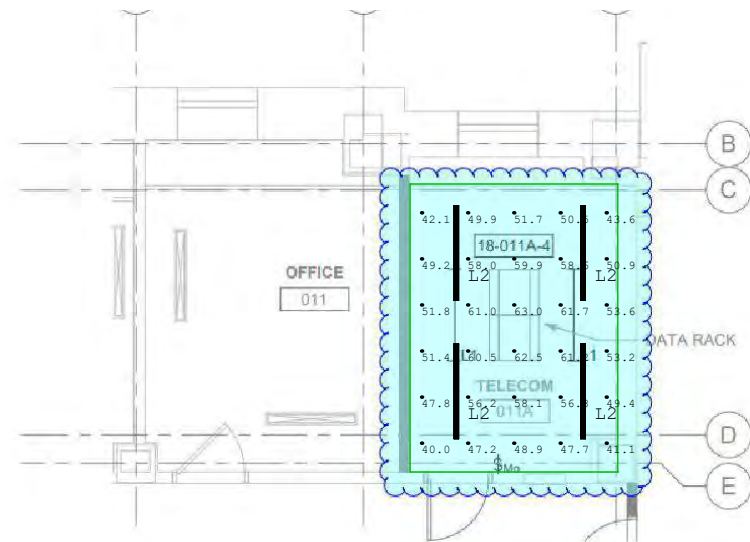


4 RM 224 - LIGHTING PLAN
3/8" = 1'-0"

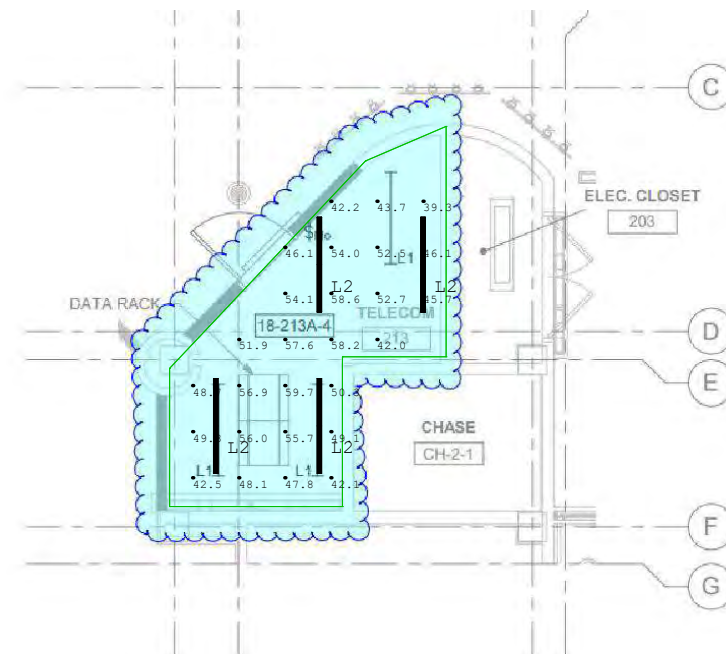
Room Summary	
Label	Wall Height
RM 117	11
RM 224	11
RM B025	11

Luminaire Schedule							
Symbol	Qty	Label	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height	Tag
■	2	4SNLED-LD5-50SL-LW-UNV-L840-C	0.900	5420	47.1	9.5	L3
■	9	4SNLED-LD5-41SL-LW-UNV-L840-C	0.900	4288	34.6	9.5	L2

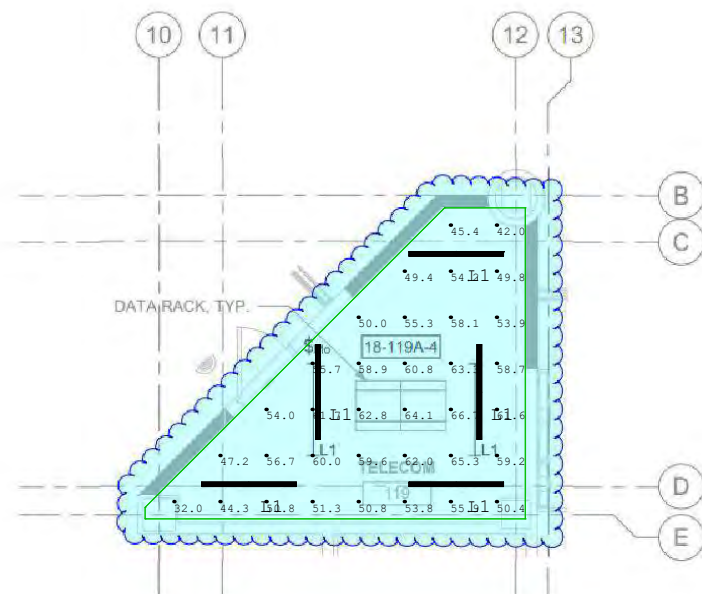
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
RM 117_Workplane	Illuminance	Fc	56.74	77.4	22.8	2.49	3.39
RM 224_Workplane	Illuminance	Fc	54.76	67.1	36.1	1.52	1.86
RM B025_Workplane	Illuminance	Fc	55.78	72.1	41.1	1.36	1.75



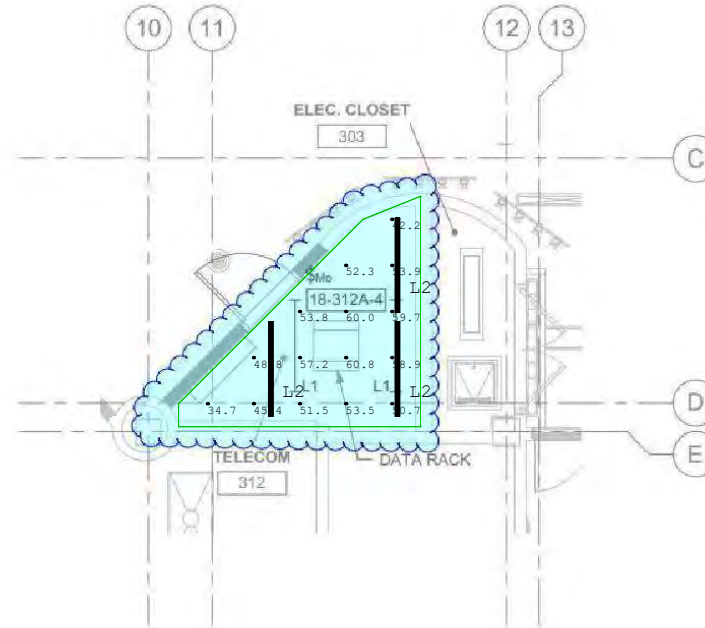
4 RM 011 - LIGHTING PLAN
1/4" = 1'-0"



4 RM 212A & 213 - LIGHTING PLAN
1/4" = 1'-0"



4 RM 119 - LIGHTING PLAN
1/4" = 1'-0"

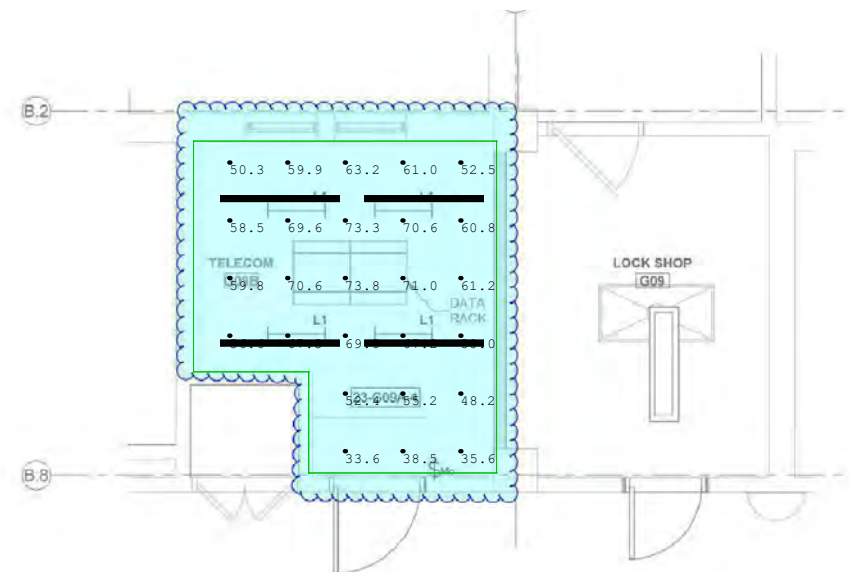


4 RM 312 - LIGHTING PLAN
1/4" = 1'-0"

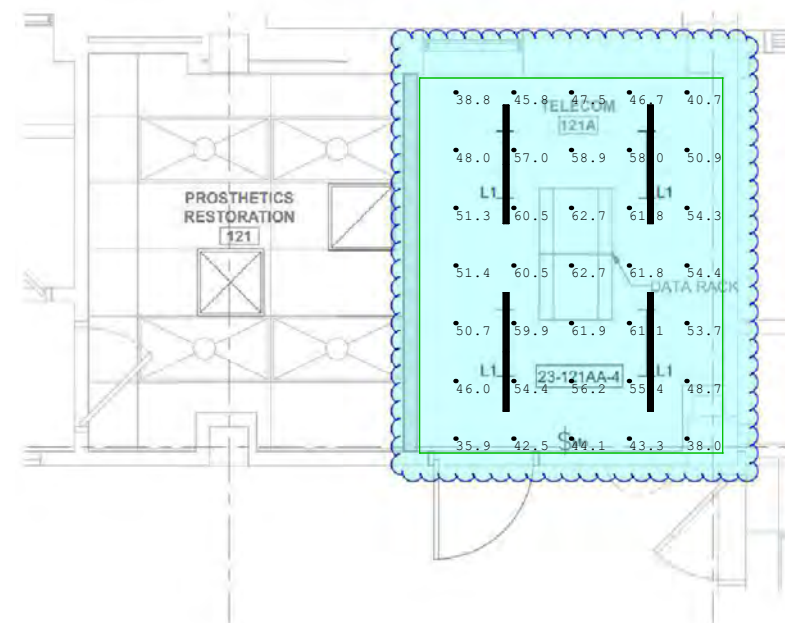
Room Summary	
Label	Wall Height
Rm 011	11.5
RM 119	10.5
RM 213	10.5
RM 312	10.5

Luminaire Schedule						
Symbol	Qty	Label	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
■	5	4SNLED-LD5-37SL-LW-UNV-L840-C	0.900	3882	30.6	9.5
■	11	4SNLED-LD5-41SL-LW-UNV-L840-C	0.900	4288	34.6	9.5

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Rm 011 Workplane	Illuminance	Fc	52.92	63.0	40.0	1.32	1.58
RM 119 Workplane	Illuminance	Fc	55.02	66.7	32.0	1.72	2.08
RM 213 Workplane	Illuminance	Fc	50.03	59.7	39.3	1.27	1.52
RM 312 Workplane	Illuminance	Fc	52.23	60.8	34.7	1.51	1.75




2 RM G09 - LIGHTING PLAN
3/8" = 1'-0"

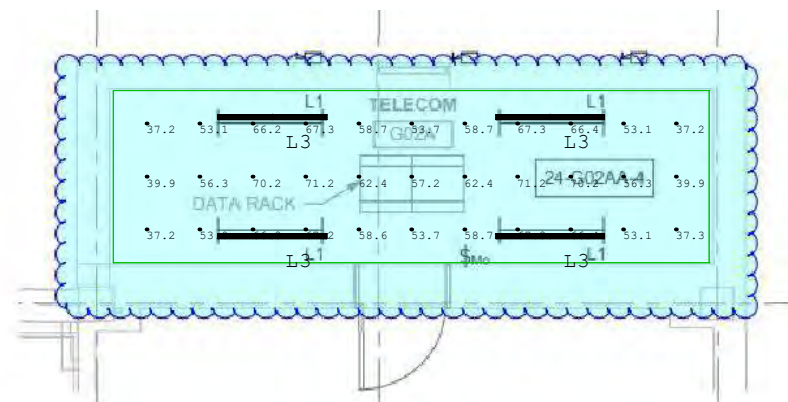


2 RM 121A - LIGHTING PLAN
3/8" = 1'-0"

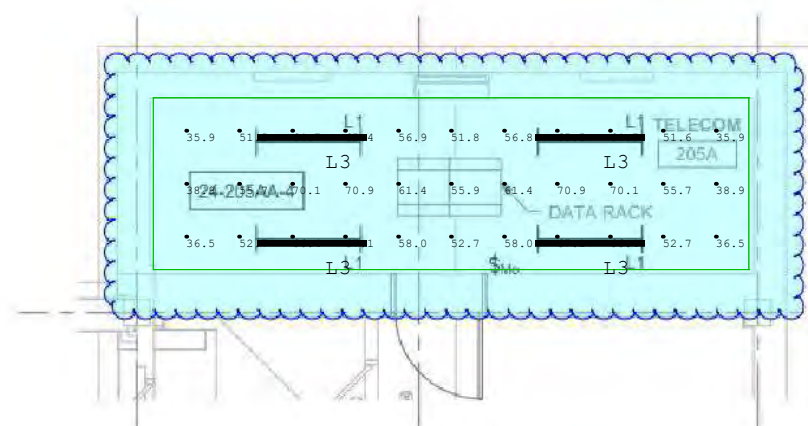
Room Summary	
Label	Wall Height
RM 121	13
RM G09	13

Luminaire Schedule						
Symbol	Qty	Label	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
	8	4SNLED-LD5-41SL-LW-UNV-L840-C	0.900	4288	34.6	9.5

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
RM 121 Workplane	Illuminance	Fc	52.16	62.7	35.9	1.45	1.75
RM G09 Workplane	Illuminance	Fc	59.17	73.8	33.6	1.76	2.20



2 RM G02A - LIGHTING PLAN
1/4" = 1'-0"



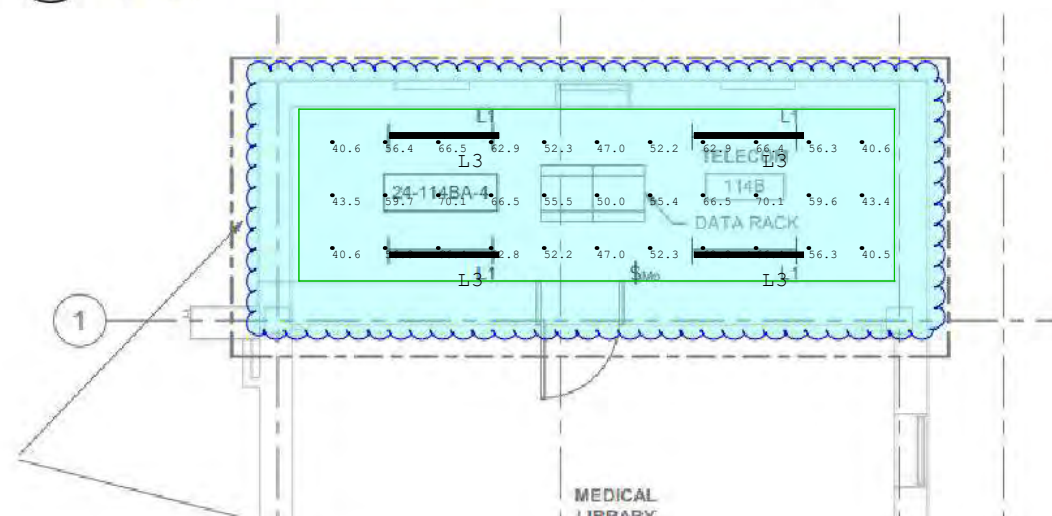
2 RM 205A - LIGHTING PLAN
1/4" = 1'-0"

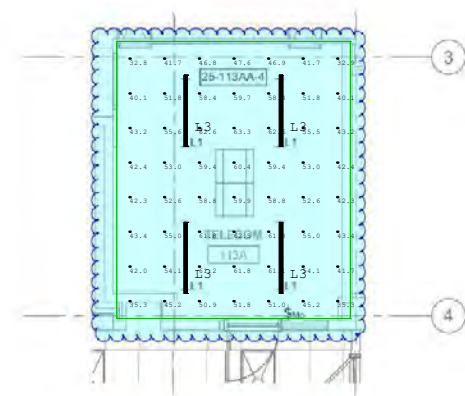


Room Summary	
Label	Wall Height
RM 114B	11
RM 205A	12
RM G02A	10.5

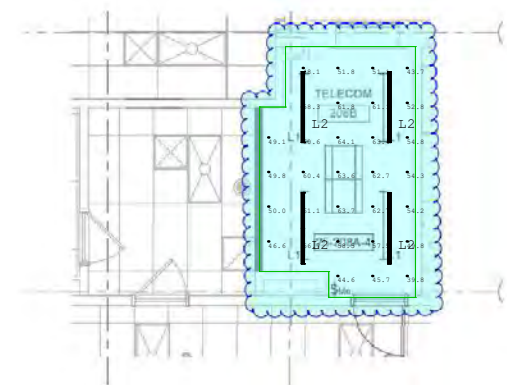
Luminaire Schedule						
Symbol	Qty	Label	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
	12	4SNLED-LD5-50SL-LW-UNV-L840-C	0.900	5420	47.1	9.5
						L3

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min
RM 114B Workplane	Illuminance	Fc	56.00	70.1	40.5	1.38
RM 205A Workplane	Illuminance	Fc	56.51	70.9	35.9	1.57
RM G02A Workplane	Illuminance	Fc	57.42	71.2	37.2	1.54

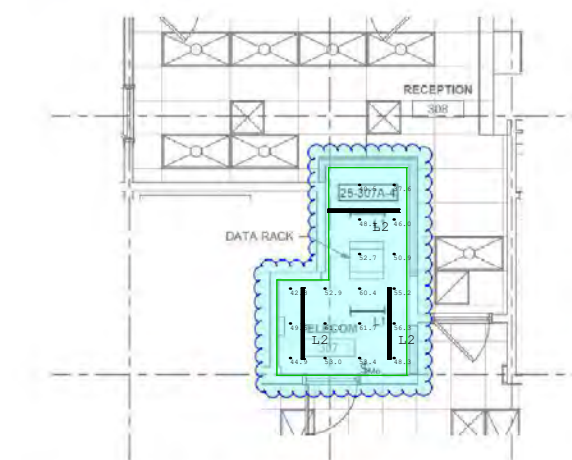




RM 113, 113A - LIGHTING PLAN
1/4" = 1'-0"



RM 208 - LIGHTING PLAN
1/4" = 1'-0"

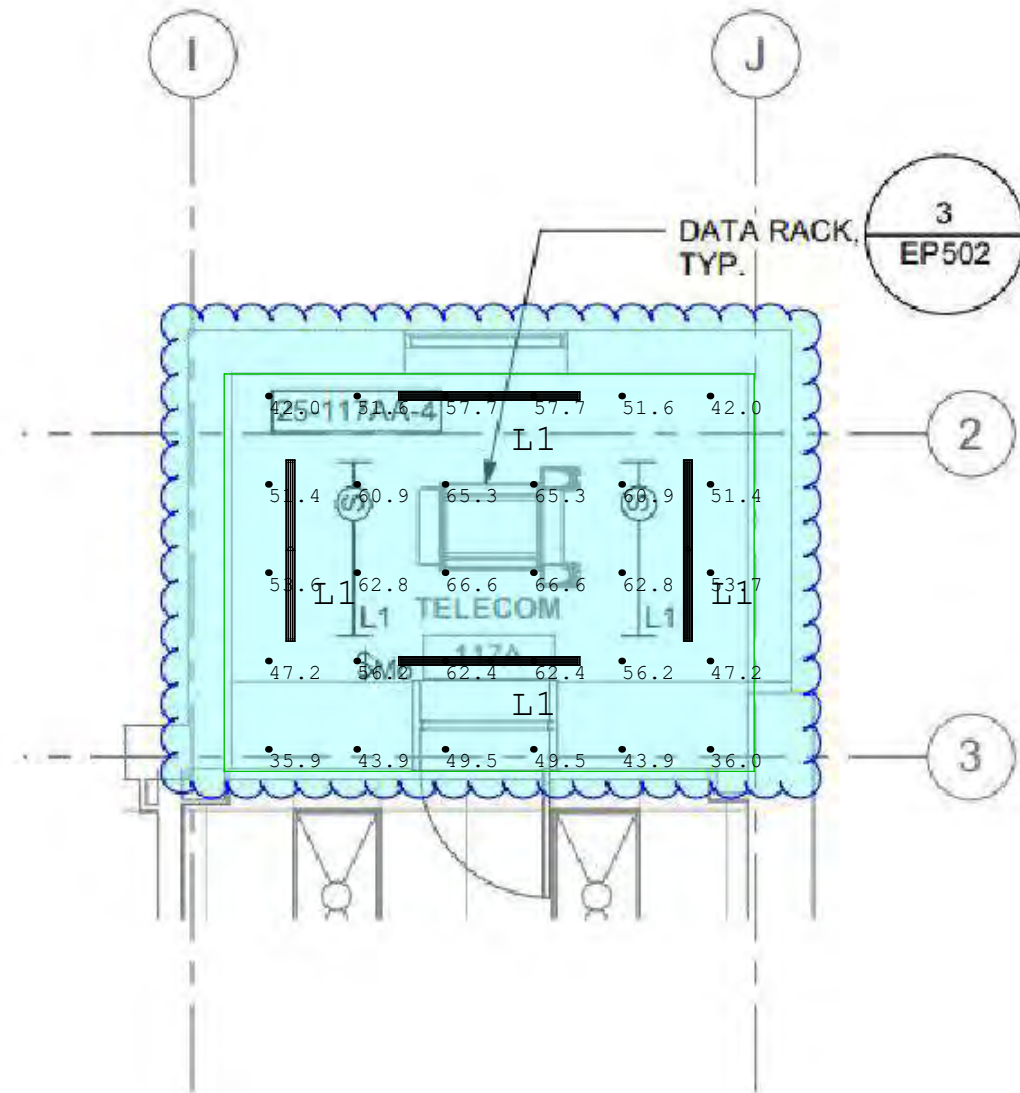


RM 307 & 308 - LIGHTING PLAN
1/4" = 1'-0"


Room Summary	
Label	Wall Height
RM 113A	11
RM 208	11
RM 307	11

Luminaire Schedule							
Symbol	Qty	Label	Tag	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
	4	4SNLED-LD5-50SL-LW-UNV-L840-C	L3	0.900	5420	47.1	9.5
	7	4SNLED-LD5-41SL-LW-UNV-L840-C	L2	0.900	4288	34.6	9.5

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
RM 113A Workplane	Illuminance	Fc	50.85	63.3	32.8	1.55	1.93
RM 208 Workplane	Illuminance	Fc	54.92	64.1	39.8	1.38	1.61
RM 307 Workplane	Illuminance	Fc	50.84	61.7	37.6	1.35	1.64

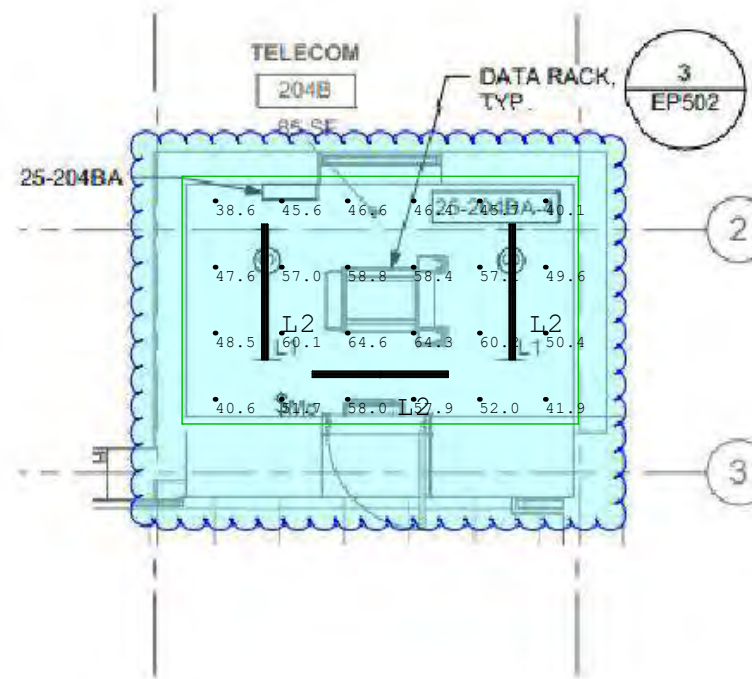


Room Summary	
Label	Wall Height
RM 117A	11

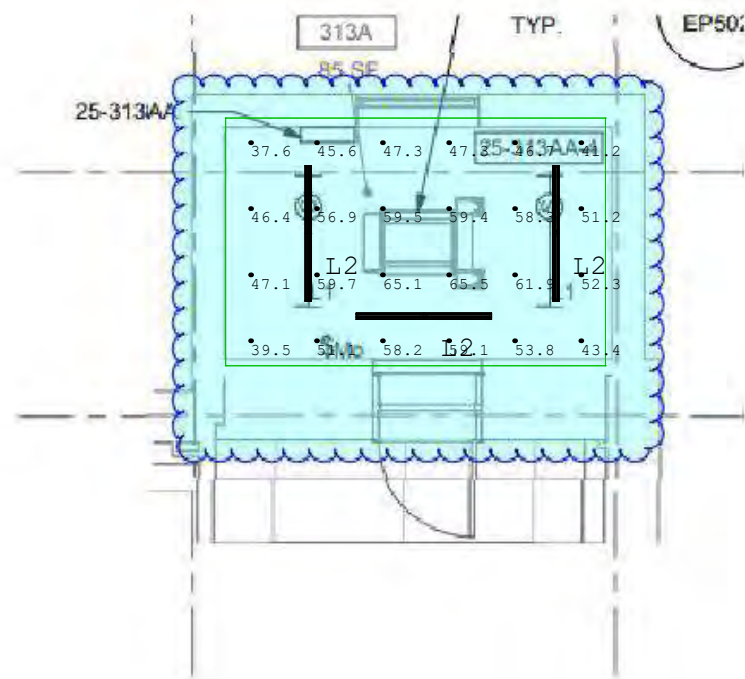
Luminaire Schedule							
Symbol	Qty	Label	Tag	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
	4	4SNLED-LD5-37SL-LW-UNV-L840-C	L1	0.900	3882	30.6	9.5

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
RM 117A Workplane	Illuminance	Fc	53.81	66.6	35.9	1.50	1.86

4 RM 117A - LIGHTING PLAN
 P101 1/4" = 1'-0"  PROJECT NORTH 



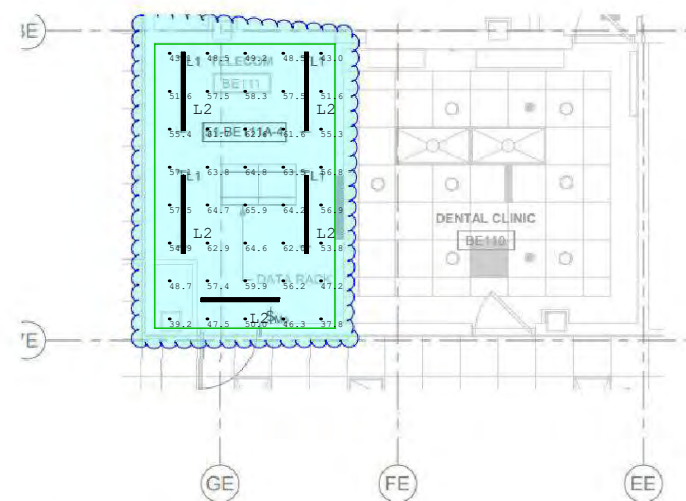
RM 204B - LIGHTING PLAN
1/4" = 1'-0"
0' 2' 4'
FRIEDRICH NORTH



Room Summary	
Label	Wall Height
RM 204B	11
RM 313A	11

Luminaire Schedule							
Symbol	Qty	Label	Tag	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
	6	4SNLED-LD5-41SL-LW-UNV-L840-C	L2	0.900	4288	34.6	9.5

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
RM 204B Workplane	Illuminance	Fc	51.74	64.6	38.6	1.34	1.67
RM 313A Workplane	Illuminance	Fc	52.25	65.5	37.6	1.39	1.74

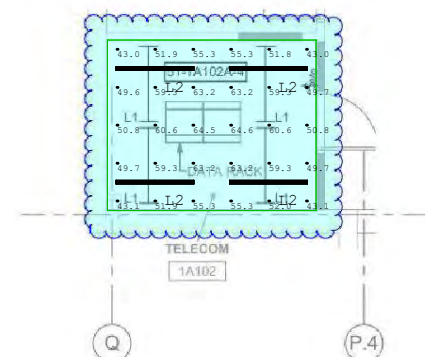


RM BE110 & BE111 - LIGHTING PLAN
1/4" = 1'-0"

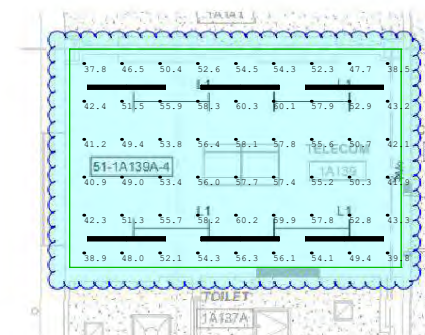
Room Summary	
Label	Wall Height
RM 1A102	11
RM 1A139	11
RM 1A183	11
RM BE111	11

Luminaire Schedule							
Symbol	Qty	Label	Tag	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
	6	4SNLED-LD5-37SL-LW-UNV-L840-C		0.900	3882	30.6	9.5
	7	4SNLED-LD5-50SL-LW-UNV-L840-C	L3	0.900	5420	47.1	9.5
	9	4SNLED-LD5-41SL-LW-UNV-L840-C	L2	0.900	4288	34.6	9.5

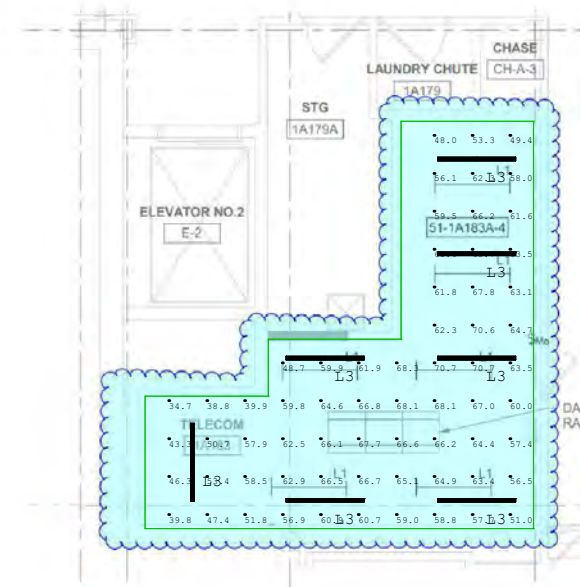
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
RM 1A102 Workplane	Illuminance	Fc	54.72	64.6	43.0	1.27	1.50
RM 1A139 Workplane	Illuminance	Fc	51.38	60.3	37.8	1.36	1.60
RM 1A183 Workplane	Illuminance	Fc	59.40	70.7	34.7	1.71	2.04
RM BE111 Workplane	Illuminance	Fc	55.23	65.9	37.8	1.46	1.74



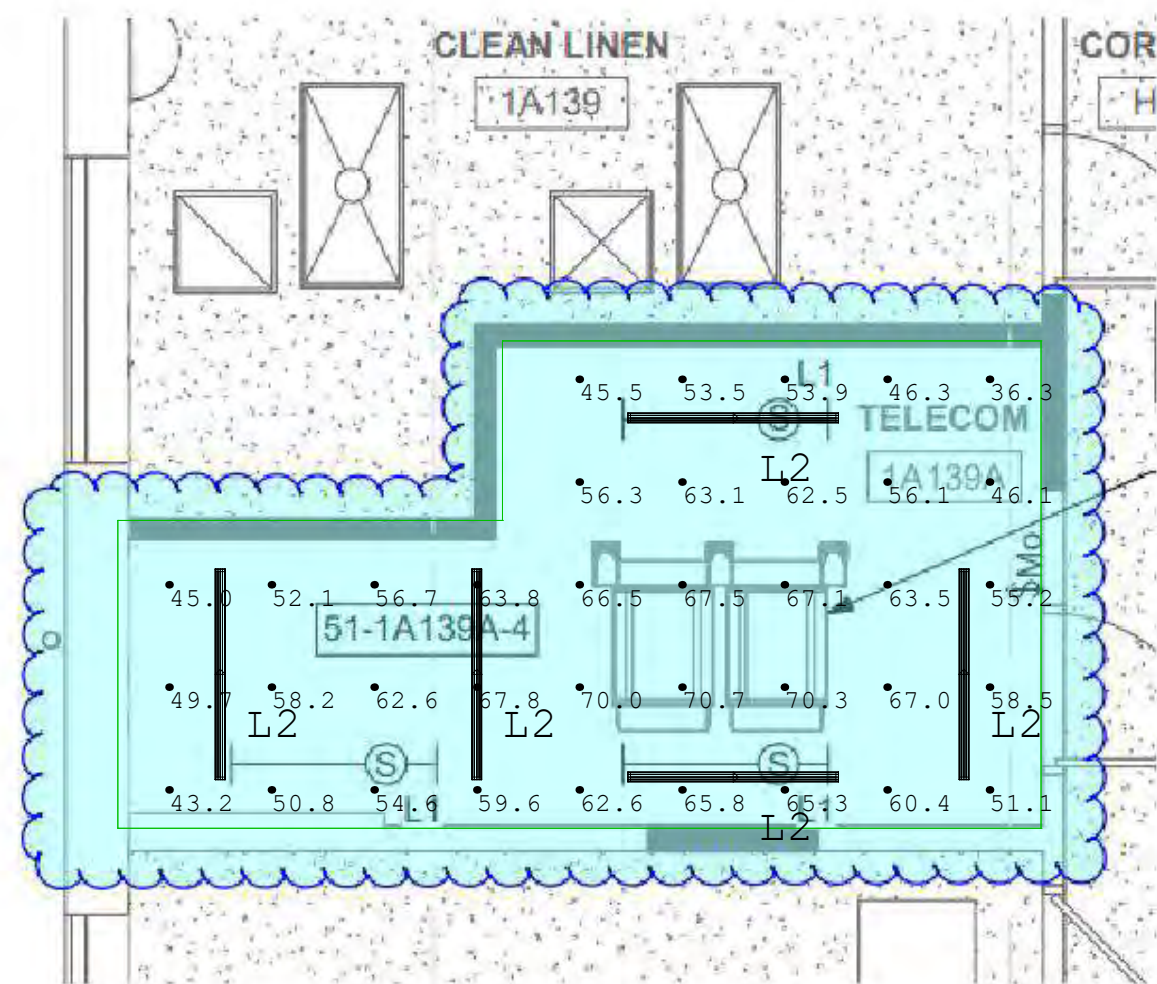
RM 1A102 - LIGHTING PLAN
1/4" = 1'-0"




RM 1A139 - LIGHTING PLAN
1/4" = 1'-0"



RM 1A183 - LIGHTING PLAN
1/4" = 1'-0"



Room Summary	
Label	Wall Height
Room_1	11

Luminaire Schedule							
Symbol	Qty	Label	Tag	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
	5	4SNLED-LD5-41SL-LW-UNV-L840-C	L2	0.900	4288	34.6	9.5

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Room_1_Workplane	Illuminance	Fc	57.98	70.7	36.3	1.60	1.95

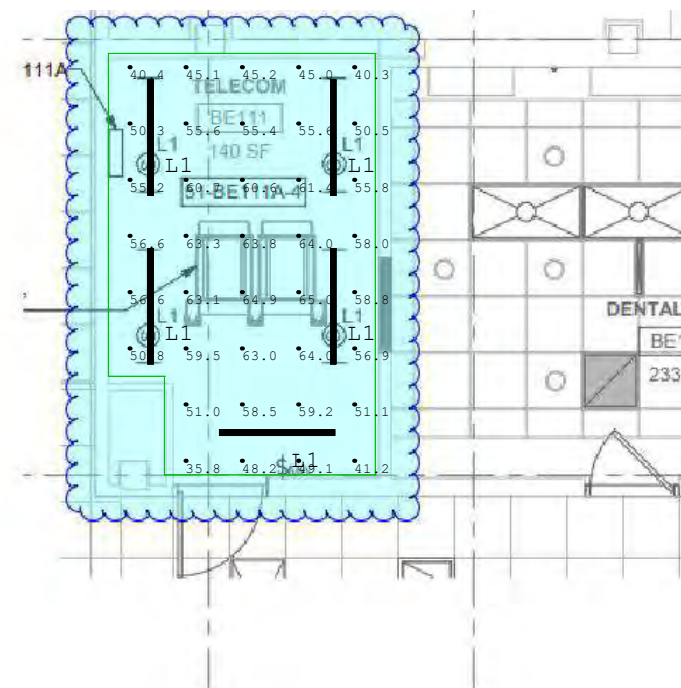
RM 1A139A - LIGHTING PLAN

1/4" = 1'-0"

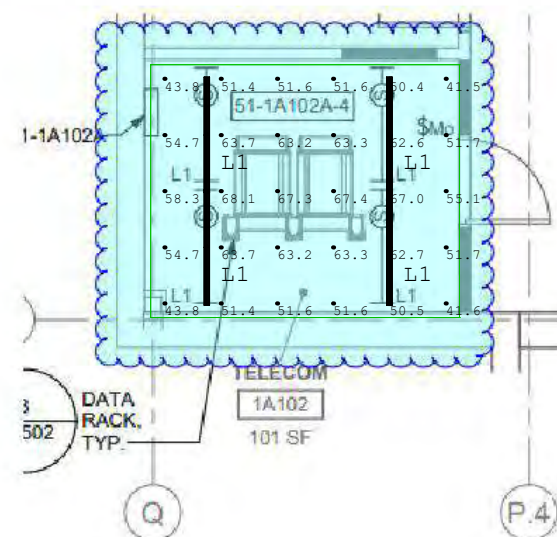


Drawn By: Ethan Griffiths
Date: 2/21/2022

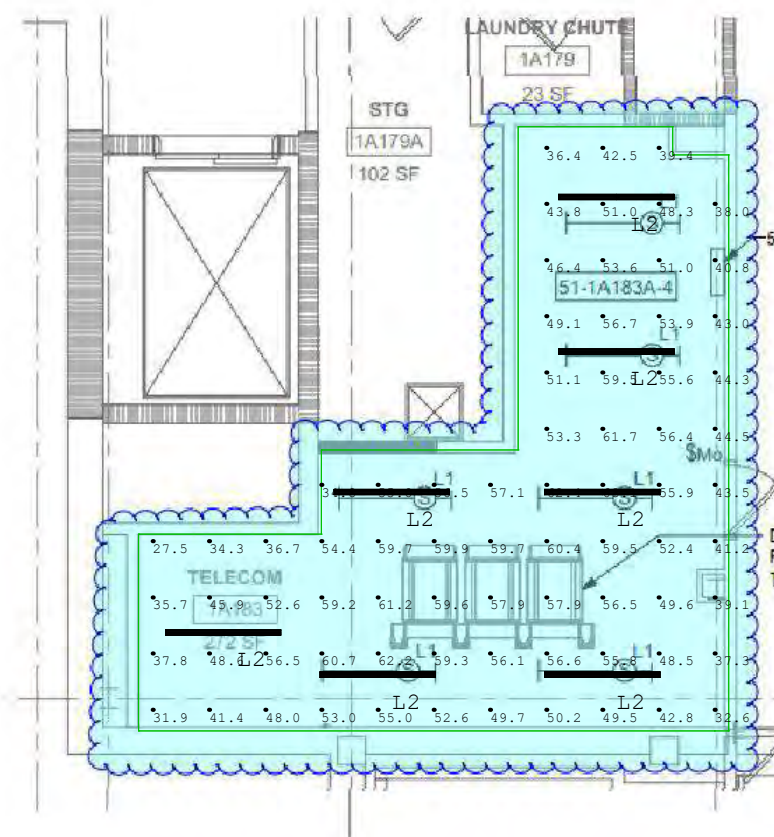
Project Name: St Louis VA Building 51 Rm 1A139A
Client: Speedb



4 RM BE111 - LIGHTING PLAN
1/4" = 1'-0"



RM 1A102 - LIGHTING PLAN
1/4" = 1'-0"



RM 1A183 - LIGHTING PLAN
1/4" = 1'-0"

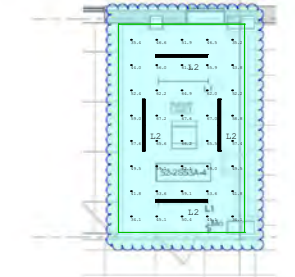
Room Summary	
Label	Wall Height
RM 1A102	11
RM 1A183	11
RM BE111	11

Luminaire Schedule								
Symbol	Qty	Label	Tag	LLF	Luminaire Lumens	Luminaire Watts	Total Watts	Mounting Height
	9	4SNLED-LD5-37SL-LW-UNV-L840-C	L1	0.900	3882	30.6	275.4	9.5
	7	4SNLED-LD5-41SL-LW-UNV-L840-C	L2	0.900	4288	34.6	242.2	9.5

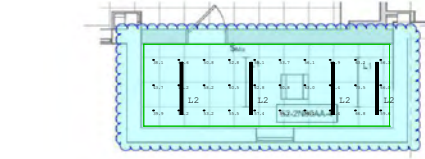
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
RM 1A102 Workplane	Illuminance	Fc	56.08	68.1	41.5	1.35	1.64
RM 1A183 Workplane	Illuminance	Fc	50.07	63.1	27.5	1.82	2.29
RM BE111 Workplane	Illuminance	Fc	54.72	65.0	35.8	1.53	1.82



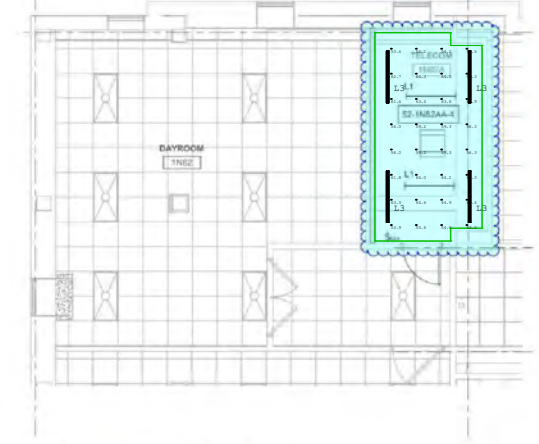
RM GN29 - LIGHTING PLAN
1/4" = 1'-0"



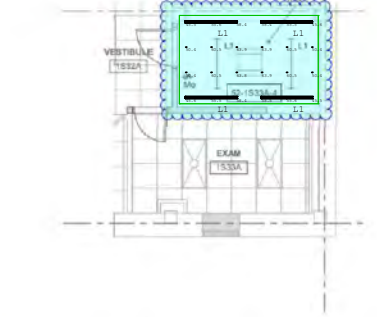
RM 2S53 - LIGHTING PLAN
1/4" = 1'-0"



RM 2N86 - LIGHTING PLAN
1/4" = 1'-0"



RM 1N82A - LIGHTING PLAN
1/4" = 1'-0"

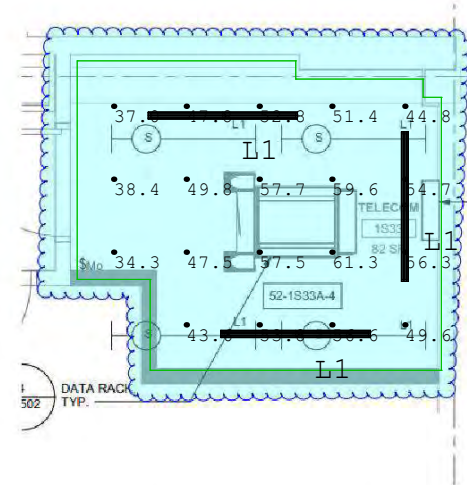


RM 1S33 - LIGHTING PLAN
1/4" = 1'-0"

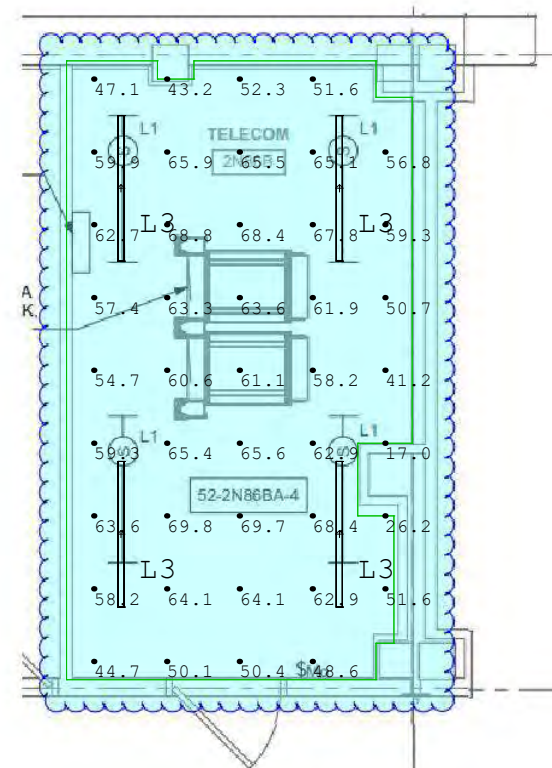
Room Summary	
Label	Wall Height
RM 1N82A	11
RM 1S33	11
RM 2N86	9
RM 2S53	9
RM GN29	12.1
RM GN29A	12.1

Luminaire Schedule							
Symbol	Qty	Label	Tag	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
	4	4SNLED-LDS-378L-LW-UNV-L840-C	L1	0.900	3882	30.6	9.5
	7	4SNLED-LDS-378L-LW-UNV-L840-C	L3	0.900	3420	41.1	9.5
	24	4SNLED-LDS-418L-LW-UNV-L840-C	L2	0.900	4288	34.6	9, 9.5

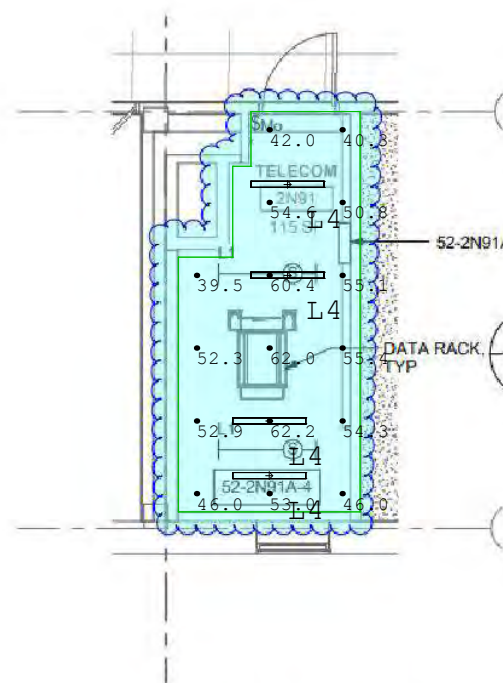
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
RM 1N82A Workplane	Illuminance	Fc	59.61	64.9	52.5	1.14	1.24
RM 1S33 Workplane	Illuminance	Fc	55.72	63.9	45.5	1.22	1.40
RM 2N86 Workplane	Illuminance	Fc	57.10	73.5	39.1	1.50	1.93
RM 2S53 Workplane	Illuminance	Fc	53.51	67.6	34.1	1.57	1.98
RM GN29 Workplane	Illuminance	Fc	51.54	65.4	27.1	1.90	2.41
RM GN29A Workplane	Illuminance	Fc	59.41	80.0	38.5	1.54	2.08



RM 1S33 - LIGHTING PLAN
1/2" = 1'-0"



RM 2N86B - LIGHTING PLAN
3/8" = 1'-0"

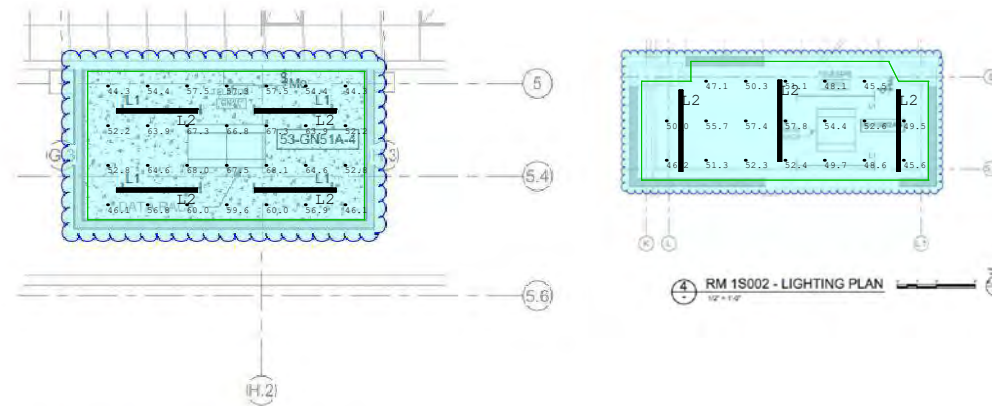


RM 2N91 - LIGHTING PLAN
1/4" = 1'-0"

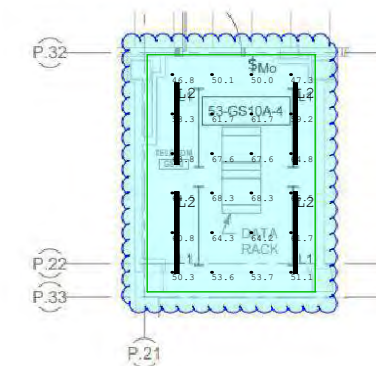
Room Summary	
Label	Wall Height
RM 1S33	11
RM 2N86B	9
RM 2N91	9

Luminaire Schedule							
Symbol	Qty	Label	Tag	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
	4	4SNLED-LD5-50SL-LW-UNV-L840-C	L3	0.900	5420	47.1	9
	4	2SNLED-LD5-23SL-LW-UNV-L840-C	L4	0.900	2459	20.1	9
	3	4SNLED-LD5-37SL-LW-UNV-L840-C	L1	0.900	3882	30.6	9.5

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	
RM 1S33 Workplane	Illuminance	Fc	50.24	61.3	34.3	1.46	1.79	
RM 2N86B Workplane	Illuminance	Fc	57.43	69.8	17.0	3.38	4.11	
RM 2N91 Workplane	Illuminance	Fc	51.68	62.2	39.5	1.31	1.57	



RM Z005 - LIGHTING PLAN
1/4" = 1'-0"

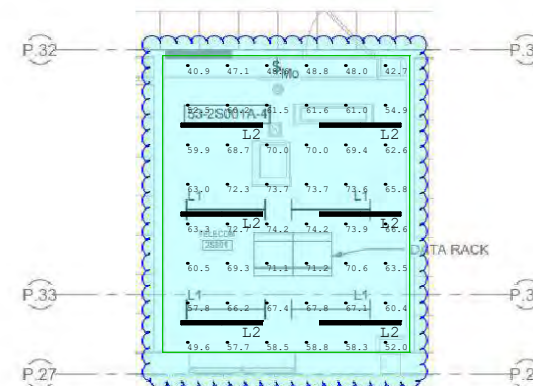
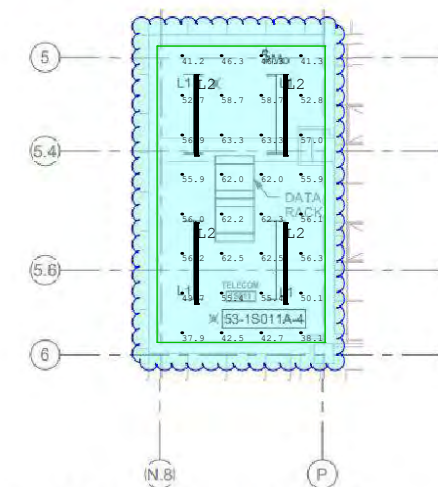


Room Summary	
Label	Wall Height
RM 1S001	11.25
RM 1S002	11.25
RM 2S001	11.25
RM GS10	12.3
RM Z005	12.3

Luminaire Schedule							
Symbol	Qty	Label	Tag	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
	21	4SNLED-LD5-41SL-LW-UNV-L840-C	L2	0.900	4288	34.6	9.5

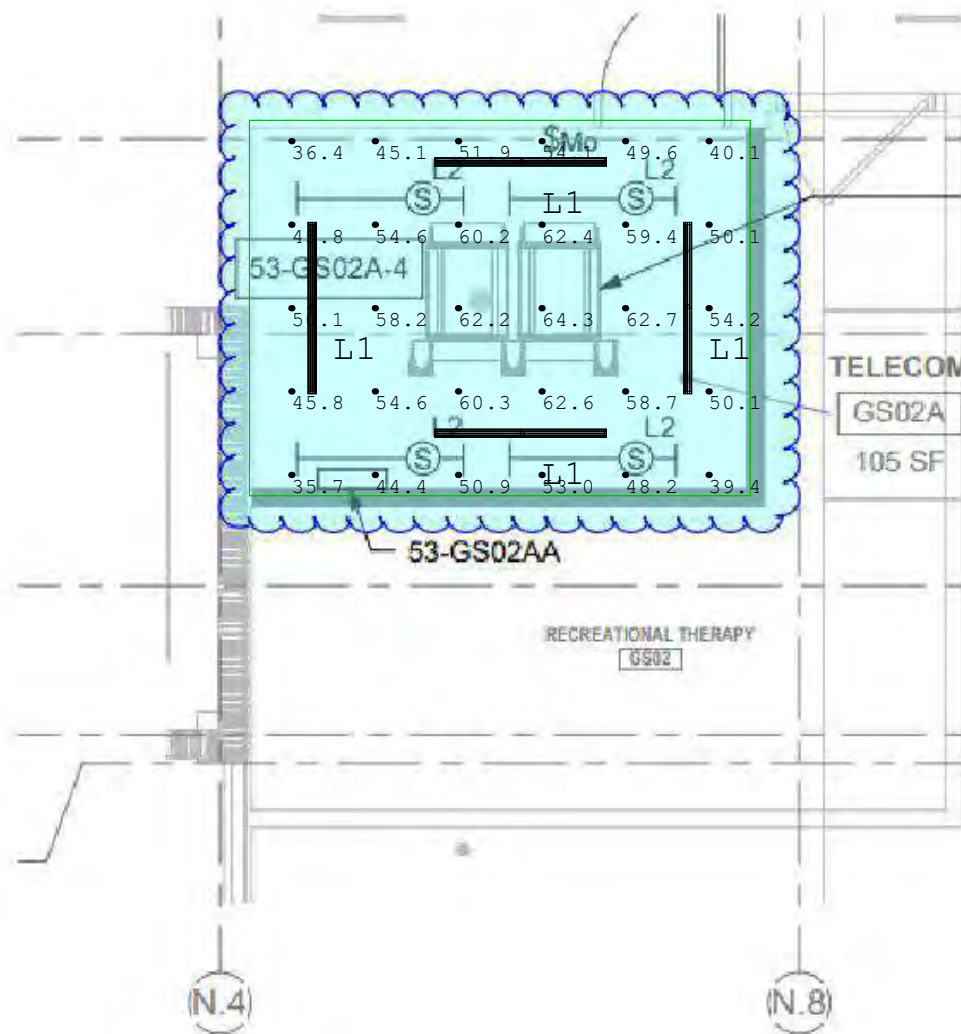
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
RM 1S001 Workplane	Illuminance	Fc	53.76	63.3	37.9	1.42	1.67
RM 1S002 Workplane	Illuminance	Fc	50.82	57.8	45.5	1.12	1.27
RM 2S001 Workplane	Illuminance	Fc	62.57	74.2	40.9	1.53	1.81
RM GS10 Workplane	Illuminance	Fc	59.38	68.3	46.8	1.27	1.46
RM Z005 Workplane	Illuminance	Fc	58.11	68.1	44.3	1.31	1.54

RM GS10 - LIGHTING PLAN
1/4" = 1'-0"




RM 1S011 - LIGHTING PLAN
1/4" = 1'-0"

RM 2S001 & 2S002 - LIGHTING PLAN
1/4" = 1'-0"



Room Summary	
Label	Wall Height
RM GS02A	12.25

Luminaire Schedule							
Symbol	Qty	Label	Tag	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
	4	4SNLED-LD5-37SL-LW-UNV-L840-C	L1	0.900	3882	30.6	9.5

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	
RM GS02A_Workplane	Illuminance	Fc	52.17	64.3	35.7	1.46	1.80	

RM GS02A - LIGHTING PLAN

1/4" = 1'-0"

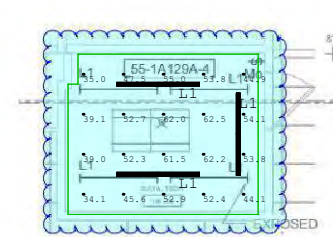
0' 2' 4' 8'

PROJECT NORTH

Drawn By: **Ethan Griffiths**
Date: 2/25/2022

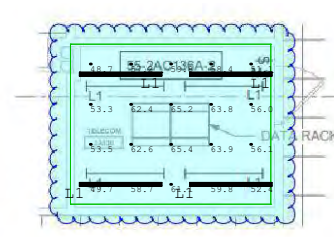
Project Name: St Louis VA Building 53 Additional Room
Client: Speedsb





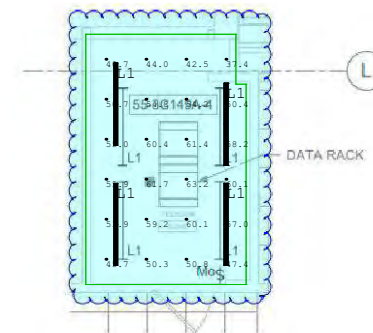
RM 1A129 - LIGHTING PL

1/4" = 1'-0"



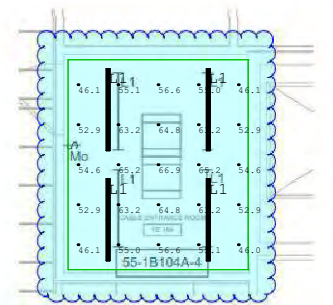
RM 2A136 - LIGHTING PL

1/4" = 1'-0"



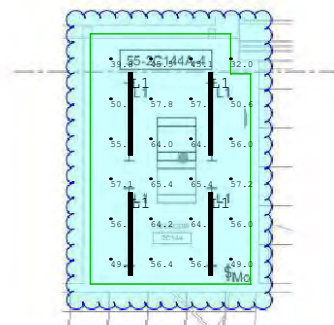
RM 3C149 - LIGHTING PLAN

1/4" = 1'-0"



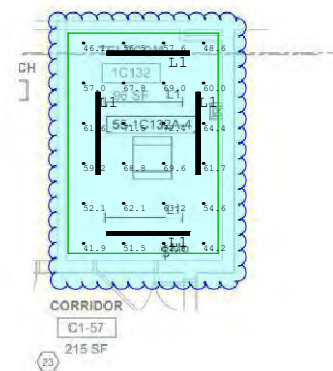
RM 1B104 - LIGHTING PL

1/4" = 1'-0"



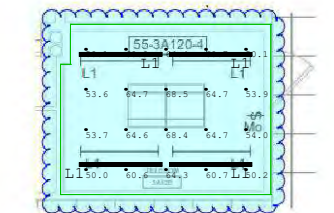
RM 2C144 - LIGHTING PL

1/4" = 1'-0"



RM 1C132 - LIGHTING PL

1/4" = 1'-0"



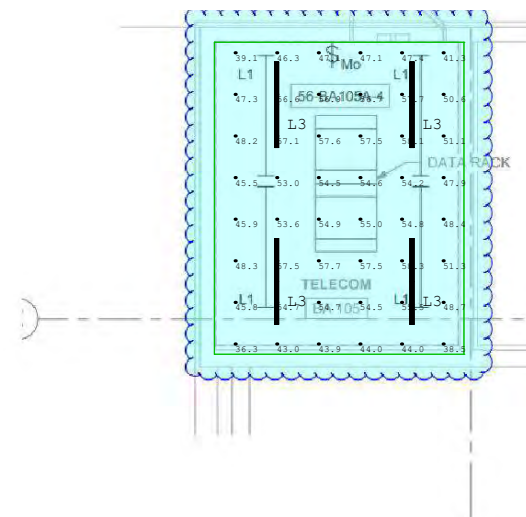
RM 3A120 - LIGHTING PL

1/4" = 1'-0"

Room Summary	
Label	Wall Height
RM 1A129	13
RM 1B104	13
RM 1C132	13
RM 2A136	15
RM 2C144	15
RM 3A120	15
RM 3C149	15

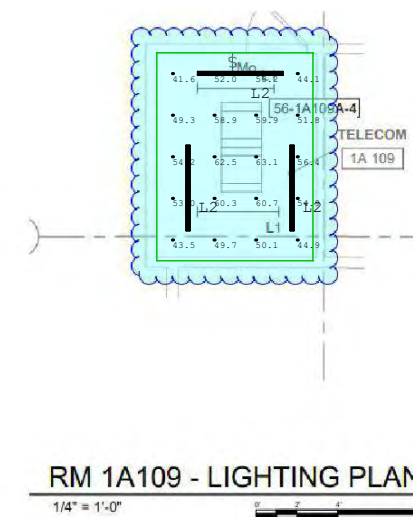
Luminaire Schedule						
Symbol	Qty	Label	Tag	LLF	Luminaire Lumens	Luminaire Watts
	27	4SNLED-LD5-37SL-LW-UNV-L840-C	L1	0.900	3882	30.6

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
RM 1A129 Workplane	Illuminance	Fc	50.23	62.5	34.1	1.47	1.83
RM 1B104 Workplane	Illuminance	Fc	56.73	66.9	46.0	1.23	1.45
RM 1C132 Workplane	Illuminance	Fc	58.93	72.4	41.9	1.41	1.73
RM 2A136 Workplane	Illuminance	Fc	57.96	65.4	48.7	1.19	1.34
RM 2C144 Workplane	Illuminance	Fc	54.81	65.4	32.0	1.71	2.04
RM 3A120 Workplane	Illuminance	Fc	59.14	68.5	50.0	1.18	1.37
RM 3C149 Workplane	Illuminance	Fc	53.13	63.2	37.4	1.42	1.69



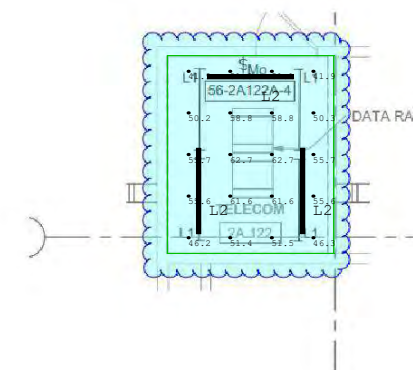
RM BA105 - LIGHTING PLAN

3/8" = 1'-0"



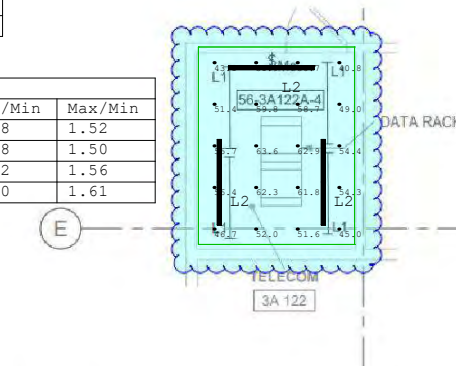
RM 1A109 - LIGHTING PLAN

1/4" = 1'-0"



RM 2A122 - LIGHTING PLAN

1/4" = 1'-0"



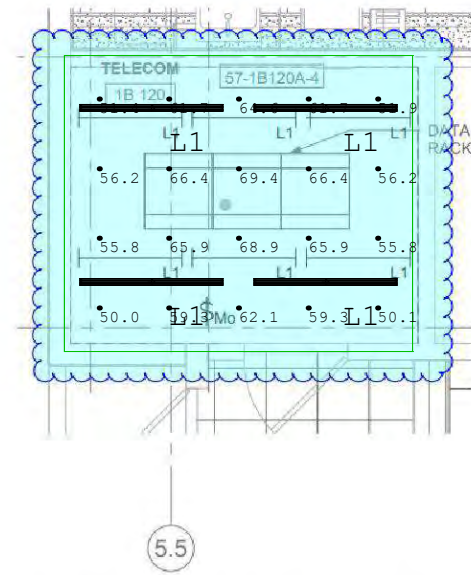
RM 3A122 - LIGHTING PLAN

1/4" = 1'-0"

Room Summary	
Label	Wall Height
RM 1A109	13
RM 2A122	13
RM 3A122	13.5
RM BA105	18

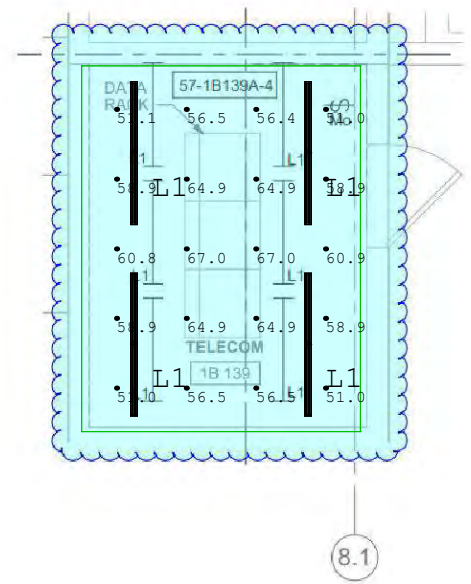
Luminaire Schedule							
Symbol	Qty	Label	Tag	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
	4	4SNLED-LD5-50SL-LW-UNV-L840-C	L3	0.900	5420	47.1	9.5
	9	4SNLED-LD5-41SL-LW-UNV-L840-C	L2	0.900	4288	34.6	9.5

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
RM 1A109_Workplane	Illuminance	Fc	53.21	63.1	41.6	1.28	1.52
RM 2A122_Workplane	Illuminance	Fc	53.53	62.7	41.9	1.28	1.50
RM 3A122_Workplane	Illuminance	Fc	53.66	63.6	40.8	1.32	1.56
RM BA105_Workplane	Illuminance	Fc	50.84	58.3	36.3	1.40	1.61



RM 1B120 - LIGHTING PLAN
3/8" = 1'-0"

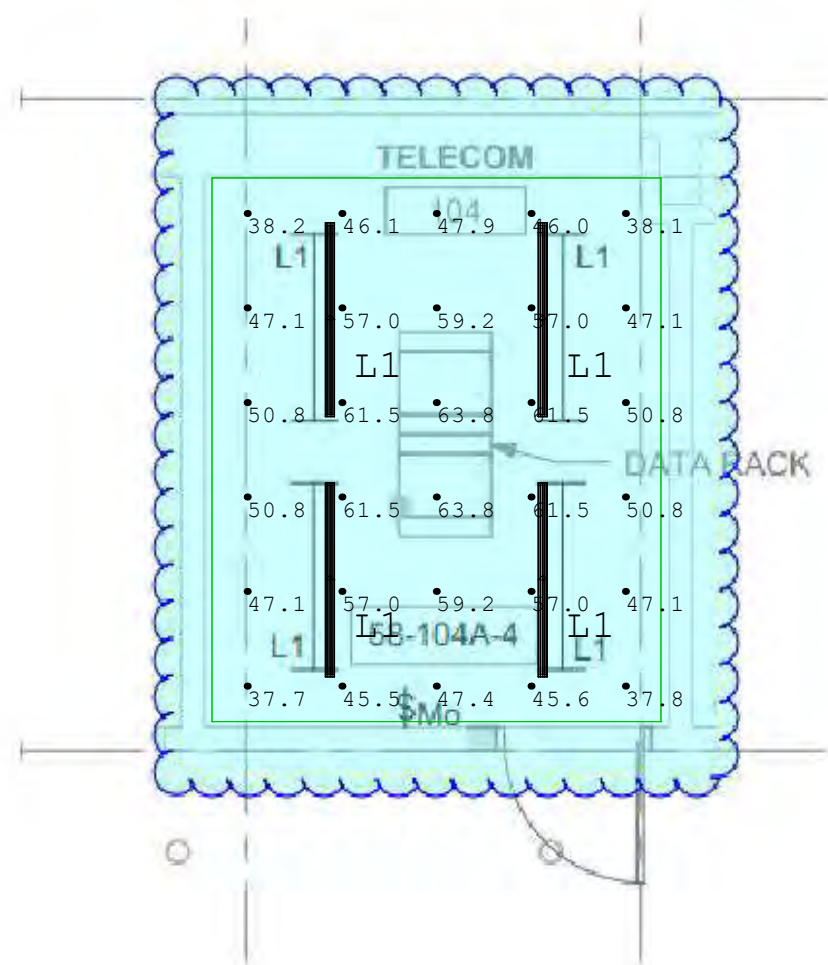
Room Summary	
Label	Wall Height
RM 1B120	14
RM 1B139	14




RM 1B139 - LIGHTING PLAN
3/8" = 1'-0"

Luminaire Schedule							
Symbol	Qty	Label	Tag	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
	8	4SNLED-LD5-37SL-LW-UNV-L840-C	L1	0.900	3882	30.6	9.5

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
RM 1B120_Workplane	Illuminance	Fc	59.95	69.4	50.0	1.20	1.39
RM 1B139_Workplane	Illuminance	Fc	59.05	67.0	51.0	1.16	1.31



Room Summary	
Label	Wall Height
RM 104	15.5

Luminaire Schedule							
Symbol	Qty	Label	Tag	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
	4	4SNLED-LD5-37SL-LW-UNV-L840-C	L1	0.900	3882	30.6	9.5

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
RM 104_Workplane	Illuminance	Fc	51.40	63.8	37.7	1.36	1.69

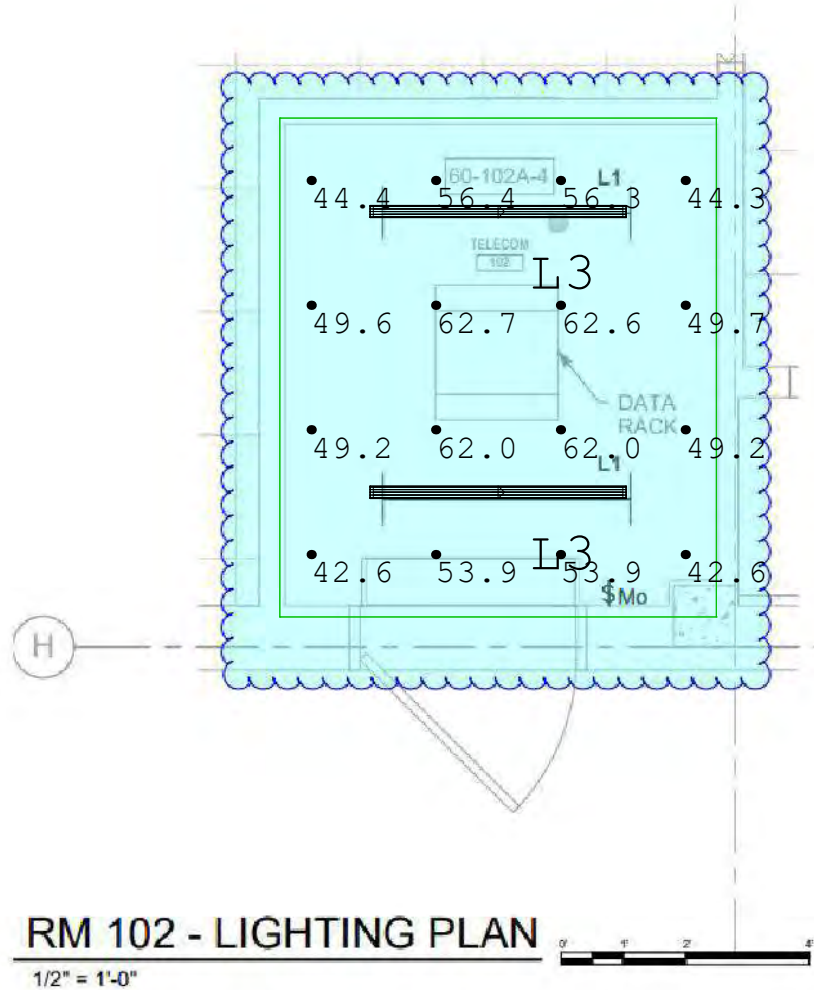
RM 104 - LIGHTING PLAN

1/4" = 1'-0"




Drawn By: Ethan Griffiths
Date: 2/18/2022

Project Name: St Louis VA Building 58
Client: Speedsb



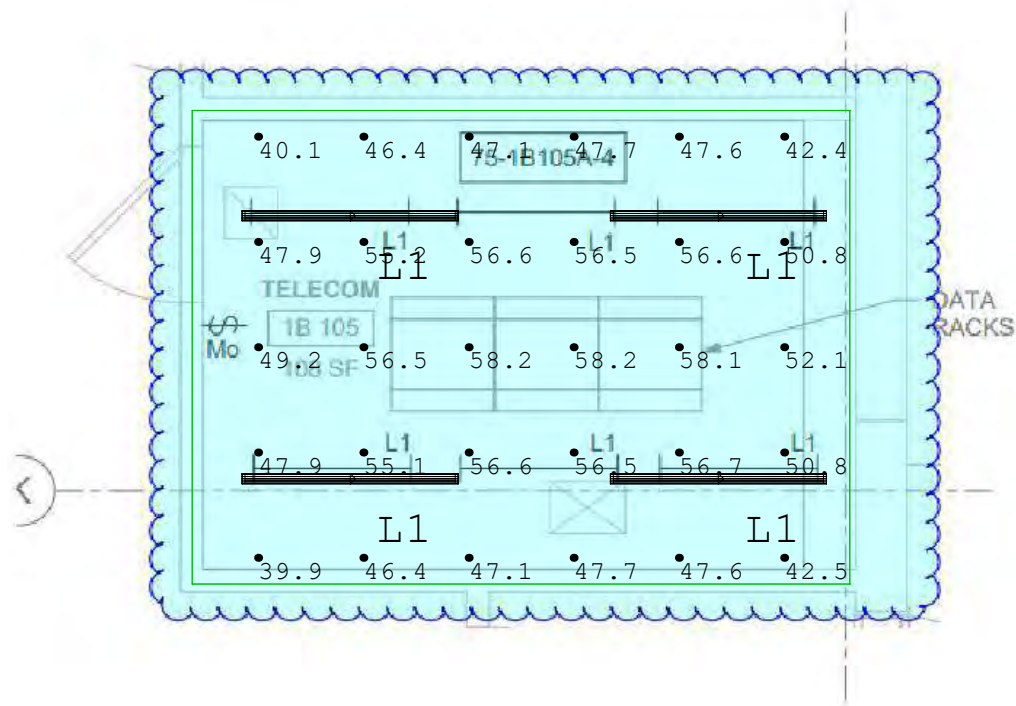
Room Summary	
Label	Wall Height
RM 102	16

Luminaire Schedule							
Symbol	Qty	Label	Tag	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
	2	4SNLED-LD5-50SL-LW-UNV-L840-C	L3	0.900	5420	47.1	9.5


Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
RM 102_Workplane	Illuminance	Fc	52.59	62.7	42.6	1.23	1.47

RM 102 - LIGHTING PLAN

1/2" = 1'-0"



Room Summary	
Label	Wall Height
RM 1B105	11.5

Luminaire Schedule							
Symbol	Qty	Label	Tag	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
	4	4SNLED-LD5-37SL-LW-UNV-L840-C	L1	0.900	3882	30.6	9.5

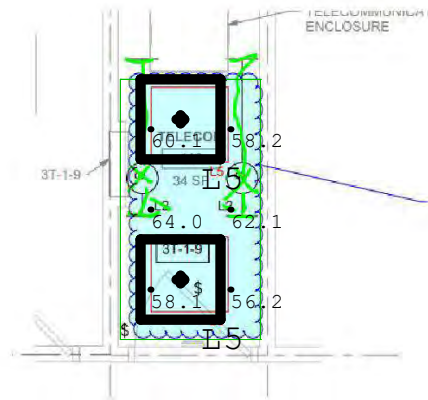
Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	
RM 1B105_Workplane	Illuminance	Fc	50.73	58.2	39.9	1.27	1.46	

RM 1B105 - LIGHTING PLAN

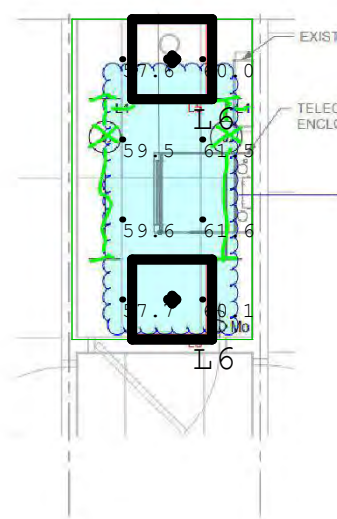
3/8" = 1'-0"

0' 2' 4' 8'

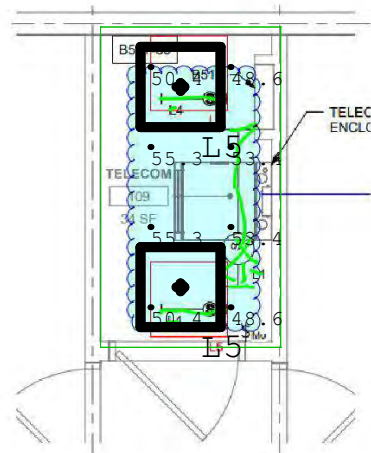
PROJECT NORTH



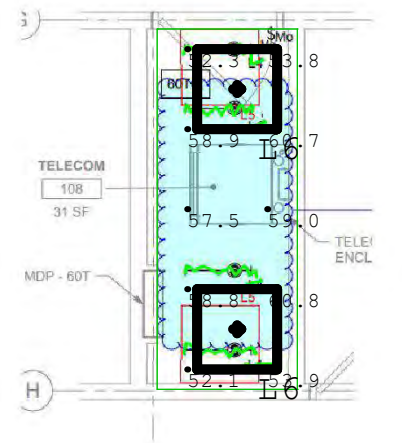
RM 118 - LIGHTING PLAN
1/2" = 1'-0"



RM 109 - LIGHTING PLAN
1/2" = 1'-0"



RM 109 - LIGHTING PLAN
1/2" = 1'-0"



RM 108 - LIGHTING PLAN
1/2" = 1'-0"

Room Summary	
Label	Wall Height
Building 03T RM 118	8
Building 51T RM 109	8
Building 53T RM 109	8
Building 60T RM 108	8

Luminaire Schedule							
Symbol	Qty	Label	Tag	LLF	Luminaire Lumens	Luminaire Watts	Mounting Height
□	4	22FPSL2SCT3-4000K-HI	L6	0.900	3349	30.4	8
□	4	22FPSL2SCT3-4000K-MID	L5	0.900	2736	24.1	8

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Building 03T RM 118_ Workplane	Illuminance	Fc	59.78	64.0	56.2	1.06	1.14
Building 51T RM 109_ Workplane	Illuminance	Fc	51.93	55.3	48.6	1.07	1.14
Building 53T RM 109_ Workplane	Illuminance	Fc	59.70	61.6	57.6	1.04	1.07
Building 60T RM 108_ Workplane	Illuminance	Fc	56.78	60.8	52.1	1.09	1.17