ENVIRONMENTAL RESTORATION LLC

1666 Fabick Drive
St. Louis, MO 63026
(636) 227-7477
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October 28, 2024

Mr. Bryan Wicklund
City of Joplin
602 S. Main St
Joplin, MO 64801

Re: **Report - Asbestos Inspection**
Old Freeman Hospital
2008 S. Sargent
Joplin, MO 64801

Dear Mr. Wicklund,
Environmental Restoration, LLC (ER) was retained to conduct an inspection for asbestos in the building at the above address. This report provides a summary of the field activities and analytical results, and has been prepared in general accordance with the rules outlined in 40 CFR Part 61, EPA National Emission Standards for Hazardous Air Pollutants (NESHAP).

The following sections outline the results of the survey, as well as the methods and details of the inspection process. The sample analyses report is included in the Appendix.

1.0 Executive Summary

Based upon visual observations, thirty-seven (37) suspect Asbestos Containing Materials (ACMs) were identified and sampled. The materials sampled consisted of roofing material, brick mortar, glazing, thermal system insulation (TSI), TSI coating, fire brick, plaster, drywall, ceiling tile and floor tiles/flooring plus related mastic. Bulk samples were collected and analyzed for asbestos content utilizing Polarized Light Microscopy (PLM) analysis. Of the individual materials tested, asbestos was found in twenty (20) of the samples.

2.0 Inspection and Sampling Procedures

The scope of this inspection included:

- An inspection to visually identify suspect asbestos containing material (ACM) either friable or nonfriable

- Identification of locations of homogeneous areas of suspect materials from which samples are to be obtained as outlined in the rules, or identification of homogeneous areas of materials which will be "assumed" to contain asbestos.
- Accredited laboratory analysis of bulk samples collected to determine if the suspect materials contain asbestos.
- An assessment of all friable known or assumed ACM.

The inspection was conducted by Mitchell Hunt, an accredited inspector (Missouri Certificate #7011011524MOIR11109)). The inspector was given access to the facility by Mr. Jeff Oliver of the City of Joplin. A detailed visual examination was made of the accessible portions of the structure. Suspect ACM was grouped into homogeneous areas and representative sampling was completed.

3.0 Laboratory Analysis

Bulk samples obtained during the inspection were identified by description and location and date of collection. The samples were delivered to EMSL Laboratories in St. Louis, Missouri for laboratory analyses. EMSL voluntarily participates in the American Industrial Hygiene Association (AIHA) Bulk Asbestos Quality Assurance Program under laboratory identification number 102959. The analysis is performed in general accordance with EPA Method 600/R-93/116 using polarized light microscopic techniques with dispersion staining for identification of mineral forms of asbestos. The quantification of asbestos in the sample is intended to be an estimate only. The results of the analysis are detailed in the report of bulk sample analysis for asbestos from EMSL, as provided in the Appendix.

4.0 Assessment

The subject building consists of a basement level with five stories above and is constructed of concrete, metal, Pyrobar and masonry blocks. The original building was built in 1923 with the northern addition added in the 1950s.

5.0 Findings

Thirty-seven separate homogeneous areas of the subject structure were identified as possible asbestos containing material. These homogeneous areas were sampled and analyzed to confirm the possible presence of asbestos fibers. Twenty of the collected samples were reported as asbestos containing material. The following table describes the regulated amount of asbestos containing analytical results:

SAMPLE NO.	DESCRIPTION	LOCATION	AREA AMOUNT	FRIABILITY
01	Black roofing tar material	Exterior ground (adjacent to south extent of building)	25 cf	No
04	Door glazing	Exterior	25 lf	No
06	TSI elbow of various sizes	Basement – Boiler room	Approx. 75 (unknown amount throughout building)	Yes
07	Tank insulation	Basement – Boiler room	9'x3' and 5'x15'	Yes
08	TSI of various sizes	Basement – Boiler room	50 lf (unknown amount throughout building)	Yes
13	Aerocell type TSI	Basement – "Bridge" room	Approx. 9 lf (unknown amount throughout building)	Yes
15	9" sq black floor tile	1st floor hallway	approx. 775	No
17	9" sq red floor tile	1st floor hallway	approx. 775	No
18	9" sq white floor tile	1st floor hallway	approx. 775	No
20	Vinyl floor sheeting – wood patterned	1st floor bathroom	approx. 35	No
24	9" sq white floor tile	2nd floor hallway	approx. 600	No
25	9" sq red floor tile	2nd floor hallway	approx. 600	No
26	9" sq black floor tile	2nd floor hallway	approx. 600	No
28	9" sq red floor tile	3rd floor hallway	approx. 700	No
29	9" sq white floor tile	3rd floor hallway	approx. 700	No
30	9" sq black floor tile	3rd floor hallway	approx. 700	No
32	9" sq red floor tile	4th floor hallway	approx. 1,070	No

33	9" sq black floor tile	4th floor hallway	approx. 1,070	No
34	9" sq white floor tile	4th floor hallway	approx. 1,070	No
37	Floor tile mastic	5th floor	approx. 2,000	No

6.0 Recommendations

Due to the reported presence of asbestos containing building materials in the subject structure and the planned demolition, ER recommends the regulated asbestos containing materials abatement and the demolition be conducted per applicable 40 CFR Part 61, Subpart M regulations.

Please review this report and call me at (314) 922-7014 with any questions. We appreciate the opportunity to provide this service to you and look forward to serving you in the future.

Sincerely,

Mitchell Hunt
Inspector

Appendix

Field Sampling Data Sheets

Asbestos Bulk Sampling Data Sheet

Project: Old Joplin Hospital
Address: 2008 S. Sergeant Ave
Joplin, MO 64804

Asbestos Inspector: Mitchell Hunt
Job #: JOP104
Date: 10/16/2024

Sample Number	Sample Description/Location	Quantity	Sample Type	Friable	Material				Barriers	Air Movement
					Damage	Accessibility	Deterioration	Texture		
01 abc	black roofing tar material	25 cf	Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	~~Rough~~ Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	~~High~~ Moderate Low
02 abc	older building brick mortar exterior		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	~~Rough~~ Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	~~High~~ Moderate Low
03 abc	olderbuilding largerbrick mortar		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	~~Rough~~ Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	~~High~~ Moderate Low
04 abc	exterior door glazing	25lf	Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage ~~Damage~~ Significant Damage	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	~~Rough~~ Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	~~High~~ Moderate Low
05 abc	newerbuilding brick mortar exterior		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage ~~Damage~~ Significant Damage	~~Within Reach~~ Barely Reachable Not Reachable	Heavy ~~Moderate~~ Light None	~~Rough~~ Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	~~High~~ Moderate Low
06 abc	basement boiler room 2"-6" pipe TSI elbow	100	Surfacing ~~Thermal~~ Misc	~~Yes~~ No	No Damage ~~Damage~~ Significant Damage	Within Reach ~~Barely Reachable~~ Not Reachable	Heavy ~~Moderate~~ Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
07 abc	basement 5X18 9X3 boiler room tank insulation		Surfacing ~~Thermal~~ Misc	~~Yes~~ No	No Damage ~~Damage~~ Significant Damage	Within Reach ~~Barely Reachable~~ Not Reachable	Heavy ~~Moderate~~ Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
08 abc	basement boilerroom 18" pipe TSI	50lf	Surfacing ~~Thermal~~ Misc	~~Yes~~ No	No Damage ~~Damage~~ Significant Damage	Within Reach ~~Barely Reachable~~ Not Reachable	Heavy Moderate ~~Light~~ None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
09 abc	basement boiler room ducting firebrick	2CY	Surfacing ~~Thermal~~ Misc	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	~~Rough~~ Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
10a	basement trash incinerator firebrick	2CY	Surfacing ~~Thermal~~ Misc	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	~~Rough~~ Moderate Smooth	~~Enclosed~~ Above Drop Ceiling Encapsulated None	High Moderate ~~Low~~

Asbestos Bulk Sampling Data Sheet

Project: Old Joplin Hospital
Address: 2008 S. Sergeant Ave
Joplin, MO 64804

Asbestos Inspector: Mitchell Hunt
Job #: JOP104
Date: 10/16/2024

Sample Number	Sample Description/Location	Quantity	Sample Type	Friable	Material				Barriers	Air Movement
					Damage	Accessibility	Deterioration	Texture		
11abc	basement wall/ceiling		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	Heavy ~~Moderate~~ Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
12abc	basement pyrobar wall bricks	150sf +?	Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage ~~Damage~~ Significant Damage	~~Within Reach~~ Barely Reachable Not Reachable	Heavy Moderate ~~Light~~ None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
13abc	basement bridge room + bathroom	9sf +?	~~Surfacing~~ ~~Thermal~~ Misc	~~Yes~~ No	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
14abc	basement wall skimcoat		~~Surfacing~~ Thermal Misc	~~Yes~~ No	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
15abc	1st Floor ~~brown~~ black 9" floor tile hallway		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
16abc	1st floor - hallway drywall		Surfacing Thermal ~~Misc~~	~~Yes~~ No	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
17abc	1st floor entrance room 9" floor tile red		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
18abc	1st floor entrance room 9" floor tile white		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
19abc	1st floor 2x2' suspended ceiling tile		Surfacing Thermal ~~Misc~~	~~Yes~~ No	~~No Damage~~ Damage Significant Damage	~~Within Reach~~ ~~Barely Reachable~~ Not Reachable	Heavy Moderate ~~Light~~ None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
20a	1st floor, bathroom wood patterned floor sheeting	20sf	Surfacing Thermal ~~Misc~~	Yes ~~No~~	~~No Damage~~ Damage Significant Damage	~~Within Reach~~ Barely Reachable Not Reachable	Heavy Moderate ~~Light~~ None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~

Asbestos Bulk Sampling Data Sheet

Project: Old Joplin Hospital
Address: 2008 S. Sergeant Ave
Joplin, MO 64804

Asbestos Inspector: Mitchell Hunt
Job #: JOP104
Date: 10/16/2024

Sample Number	Sample Description/Location	Quantity	Sample Type	Friable	Material				Barriers	Air Movement
					Damage	Accessibility	Deterioration	Texture		
21a	1st floor ceiling 1'x1' tile	125 sf	Surfacing Thermal ~~Misc~~	~~Yes~~ No	No Damage ~~Damage~~ Significant Damage	Within Reach ~~Barely Reachable~~ Not Reachable	Heavy ~~Moderate~~ Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
22 a,b,c	1st floor plaster wall & ceiling		Surfacing Thermal ~~Misc~~	~~Yes~~ No	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
23 a,b,c	2nd floor plaster wall & ceiling		Surfacing Thermal ~~Misc~~	~~Yes~~ No	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
24a	2nd floor white 9x9 floor tile		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
25a	2nd floor red 9x9 floor tile		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
26a	2nd floor black 9x9 floor tile		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
27 abc	2nd floor black TSI sealant		~~Thermal~~ Misc	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	Within Reach ~~Barely Reachable~~ Not Reachable	Heavy ~~Moderate~~ Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High Moderate ~~Low~~
28a	3rd floor 9x9 red floor tile		Surfacing Thermal ~~Misc~~	Yes No	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	Heavy Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated None	High ~~Moderate~~ Low
29a	3rd floor 9x9 white floor tile		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage ~~Damage~~ Significant Damage	~~Within Reach~~ Barely Reachable Not Reachable	Heavy ~~Moderate~~ Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High ~~Moderate~~ Low
30a	3rd floor 9x9 black floor tile		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	Heavy ~~Moderate~~ Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High ~~Moderate~~ Low

Asbestos Bulk Sampling Data Sheet

Project: Old Joplin Hospital
Address: 2008 S. Sergeant Ave
Joplin, MO 64804

Asbestos Inspector: Mitchell Hunt
Job #: JOP104
Date: 10/16/2024

Sample Number	Sample Description/Location	Quantity	Sample Type	Friable	Material				Barriers	Air Movement
					Damage	Accessibility	Deterioration	Texture		
31a	3rd floor plaster ceiling		Surfacing Thermal ~~Misc~~	~~Yes~~ No	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough ~~Moderate~~ Smooth	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High ~~Moderate~~ Low
32a	4th floor 9x9 red floor tile		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	Heavy ~~Moderate~~ Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High ~~Moderate~~ Low
33a	4th floor 9x9 black floor tile		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	Heavy ~~Moderate~~ Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High ~~Moderate~~ Low
34a	4th floor 9x9 white floor tile		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	Heavy ~~Moderate~~ Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	High ~~Moderate~~ Low
35a	4th floor wall plaster		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	~~Enclosed~~ Above Drop Ceiling Encapsulated ~~None~~	High ~~Moderate~~ Low
36a	4th floor drywall		Surfacing Thermal ~~Misc~~	~~Yes~~ No	No Damage ~~Damage~~ Significant Damage	Within Reach ~~Barely Reachable~~ Not Reachable	Heavy Moderate ~~Light~~ None	Rough Moderate ~~Smooth~~	~~Enclosed~~ Above Drop Ceiling Encapsulated None	High ~~Moderate~~ Low
37abc	5th Floor Floor tile mastic (only)		Surfacing Thermal ~~Misc~~	Yes ~~No~~	No Damage Damage ~~Significant Damage~~	~~Within Reach~~ Barely Reachable Not Reachable	~~Heavy~~ Moderate Light None	Rough Moderate ~~Smooth~~	Enclosed Above Drop Ceiling Encapsulated ~~None~~	~~High~~ Moderate Low
			Surfacing Thermal Misc	Yes No	No Damage Damage Significant Damage	Within Reach Barely Reachable Not Reachable	Heavy Moderate Light None	Rough Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated None	High Moderate Low
			Surfacing Thermal Misc	Yes No	No Damage Damage Significant Damage	Within Reach Barely Reachable Not Reachable	Heavy Moderate Light None	Rough Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated None	High Moderate Low
			Surfacing Thermal Misc	Yes No	No Damage Damage Significant Damage	Within Reach Barely Reachable Not Reachable	Heavy Moderate Light None	Rough Moderate Smooth	Enclosed Above Drop Ceiling Encapsulated None	High Moderate Low

Asbestos Bulk Sample Analysis Results

CHAIN OF CUSTODY

Page 1 of 3 page(s)

DATE: 10/17/24 TAT: Immediate __ Same Day __ 24 Hr __ 48 Hr __ 72 Hr __ 96 Hr __ 5 Day __

CLIENT: City of Joplin JOB NAME: Old Freeman Hospital JOB NUMBER: _____

Sample ID	Analysis	Material Location	Approximate Quantity	Material Description	Condition
01abc	PLM	exterior - older building	25sf	black roofing material	
02abc	PLM	exterior - older building		brick mortar	
03abc	PLM	exterior - older building		larger brick mortar	
04abc	PLM	exterior - newer building	25lf	door glazing	
05abc	PLM	exterior - newer building		brick mortar	
06abc	PLM	basement - boiler room		pipe elbow TSI	
07abc	PLM	basement - boiler room		tank insulation	
08abc	PLM	basement - boiler room	50lf	18" pipe TSI	
09a	PLM	basement - boiler room	2cy	ducting firebrick	
10a	PLM	basement - trash incinerator	2cy	firebrick	
11abc	PLM	basement -		wall/ceiling plaster	
12abc	PLM	basement -		pyrobar bricks	
13abc	PLM	basement - bridge room		aerocell TSI	
14abc	PLM	basement -		wall skimcoat	
15abc	PLM	1st floor -		black 9"x9"vft	

__✓__ Check for Stop on First Positive

RECEIVED
OCT 17 REC'D
BY: _____

S.F. - Square Feet L.F. - Linear Feet

Relinquished By: _____ Date: 10/17/24 Received By: Nicole Hogan Date: _____

CHAIN OF CUSTODY

Page 2 of 3 page(s)

DATE: 10/17/24 TAT: Immediate __ Same Day __ 24 Hr __ 48 Hr __ 72 Hr __ 96 Hr __ 5 Day __

CLIENT: City of Joplin JOB NAME: old Freeman Hospital JOB NUMBER: _____

Sample ID	Analysis	Material Location	Approximate Quantity	Material Description	Condition
16 abc	PLM	1st floor - hallway		drywall system	
17 abc	PLM	1st floor -		9x9 vft red	
18 abc	PLM	1st floor - entrance		9x9 vft white	
19 abc	PLM	1st floor -	100sf	2x2 suspended ceiling tile	
20 a	PLM	1st floor - bathroom	20sf	wood patterned vinyl floor sheeting	
21 a	PLM	1st floor -	175sf	1x1 ceiling tile	
22 abc	PLM	1st floor -		plaster wall/ceiling	
23 abc	PLM	2nd floor -		plaster wall/ceiling	
24 a	PLM	2nd floor -		9x9 vft white	
25 a	PLM	2nd floor -		9x9 vft red	
26 a	PLM	2nd floor -		9x9 vft black	
27 abc	PLM	2nd floor -		black TSI sealant	
28 a	PLM	3rd floor -		9x9 vft red	
29 a	PLM	3rd floor -		9x9 vft white	
30 a	PLM	3rd floor -		9x9 vft black	

✓ Check for Stop on First Positive

S.F. - Square Feet L.F. - Linear Feet

Relinquished By: _____ Date: 10/17/24 Received By: Nicole Hogan Date: _____

RECEIVED
OCT 17 REC'D
BY: _____

CHAIN OF CUSTODY

Page 3 of 3 page(s)

DATE: 10/17/24 TAT: Immediate __ Same Day __ 24 Hr __ 48 Hr __ 72 Hr __ 96 Hr __ 5 Day __

CLIENT: City of Joplin JOB NAME: Old Freeman Hospital JOB NUMBER: _____

Sample ID	Analysis	Material Location	Approximate Quantity	Material Description	Condition
31 a	PLM	3rd floor-		plaster ceiling	
32 a	PLM	4th floor-		9x9 vft red	
33 a	PLM	4th floor-		9x9 vft black	
34 a	PLM	4th floor-		9x9 vft white	
35 a	PLM	4th floor-		wall plaster	
36 a	PLM	4th floor-		drywall system	
37 abc	PLM	5th floor-		Floor tile mastic (only)	
	PLM				
	PLM				
	PLM				
	PLM				
	PLM				
	PLM				
	PLM				
	PLM				

✓ Check for Stop on First Positive

RECEIVED

OCT 17 RECD

S.F. - Square Feet L.F. - Linear Feet

Relinquished By: _____ Date: 10/17/24 Received By: Nicole Hogan Date: _____

PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: City of Joplin

Date Received: 10-17-24

Project: Old Freeman Hospital

Date Reported: 10-22-24

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
512409	1a	None Detected	Cellulose, Synthetic Fibers	Black Tar Binders
512410	1b	None Detected	Cellulose	Black Tar Binders
512411	1c	5-10% Chrysotile		Black Tar Binders
512412	2a	None Detected		Binders, Aggregate
512413	2b	None Detected		Binders, Aggregate
512414	2c	None Detected		Binders, Aggregate
512415	3a	None Detected		Binders, Aggregate
512416	3b	None Detected		Binders, Aggregate
512417	3c	None Detected		Binders, Aggregate
512418	4a	5-10% Chrysotile		Binders, Vinyl, Paint
512419	5a	None Detected		Binders, Aggregate
512420	5b	None Detected		Binders, Aggregate
512421	5c	None Detected		Binders, Aggregate
512422	6a	20-25% Chrysotile 5-10% Amosite		Binders, Polyfoam

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.

952 ANGLUM ROAD HAZELWOOD, MISSOURI 63042 TEL/FAX (314) 838-5052

PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: City of Joplin

Date Received: 10-17-24

Project: Old Freeman Hospital

Date Reported: 10-22-24

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
512423	7a	65-70% Chrysotile	Antigorite	Binders
512424	8a	45-50% Chrysotile 5-10% Chrysotile		Binders, Polyfoam
512425	9a	None Detected		Binders, Aggregate
512426	10a	None Detected		Binders, Aggregate
512427	11a	None Detected	Cellulose	Binders, Polyfoam
512428	11b	None Detected	Cellulose	Binders, Polyfoam, Aggregate
512429	11c	None Detected	Cellulose	Binders, Polyfoam
512430	12a	None Detected	Cellulose	Binders, Polyfoam
512431	12b	None Detected	Cellulose	Binders, Polyfoam
512432	12c	None Detected	Cellulose	Binders, Polyfoam
512433	13a	75-80% Chrysotile	Antigorite	Binders
512434	14a	None Detected		Binders, Polyfoam, Aggregate
512435	14b	None Detected		Binders, Polyfoam, Aggregate
512436	14c	None Detected		Binders, Polyfoam, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.

PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: City of Joplin

Date Received: 10-17-24

Project: Old Freeman Hospital

Date Reported: 10-22-24

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
512437	15a	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512438	16a	None Detected	Cellulose	Binders, Polyfoam, Mica
512439	16b	None Detected	Cellulose	Binders, Polyfoam, Mica
512440	16c	None Detected	Cellulose	Binders, Polyfoam, Mica
512441	17a	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512442	18a	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512443	19a	None Detected	Cellulose, Glass Wool	Binders, Polyfoam, Paint
512444	19b	None Detected	Cellulose, Glass Wool	Binders, Polyfoam, Paint
512445	19c	None Detected	Cellulose, Glass Wool	Binders, Polyfoam, Paint

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.

PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: City of Joplin

Date Received: 10-17-24

Project: Old Freeman Hospital

Date Reported: 10-22-24

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
512446	20a	None Detected		Binders, Vinyl
	Backing	None Detected	Cellulose, Glass Wool	Binders
		None Detected in Tan Mastic		Binders
		5-10% Chrysotile in Black Mastic		Black Tar Binders
512447	21a	None Detected	Cellulose, Glass Wool	Binders, Polyfoam, Paint
		None Detected in Mastic		Binders
512448	22a	None Detected	Cellulose	Binders, Polyfoam
512449	22b	None Detected	Cellulose	Binders, Polyfoam
512450	22c	None Detected	Cellulose	Binders, Polyfoam
512451	23a	None Detected		Binders, Polyfoam, Aggregate
512452	23b	None Detected		Binders, Polyfoam, Aggregate, Paint, Mica
512453	23c	None Detected		Binders, Polyfoam, Aggregate

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.

PRECISION ANALYSIS, INC.

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Client: City of Joplin

Date Received: 10-17-24

Project: Old Freeman Hospital

Date Reported: 10-22-24

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
512454	24a	10-15% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512455	25a	10-15% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512456	26a	10-15% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512457	27a	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
512458	28a	10-15% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512459	29a	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders

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The lower detection limit is less than 1 percent.

PRECISION ANALYSIS, INC.

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Client: City of Joplin

Date Received: 10-17-24

Project: Old Freeman Hospital

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Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
512460	30a	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512461	31a	None Detected	Horse Hair	Binders, Polyfoam, Aggregate
512462	32a	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512463	33a	10-15% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512464	34a	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		5-10% Chrysotile in Mastic		Black Tar Binders
512465	35a	None Detected		Binders, Polyfoam, Aggregate, Paint

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.

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PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

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Date Received: 10-17-24

Project: Old Freeman Hospital

Date Reported: 10-22-24

Technique: Polarized Light Microscopy with Dispersion Staining
In accordance with EPA/600/R-93/116 Test Method

Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
512466	36a	None Detected	Cellulose	Binders, Polyfoam
512467	37a	5-10% Chrysotile		Black Tar Binders

* The upper detection limit is 100 percent.
The lower detection limit is less than 1 percent.

Nicole Hogan

Nikki Hogan
Laboratory Co-Director

AIHA Bulk Asbestos Proficiency Analytical Testing Program ID # 101228
In Association with RTI Center for Measurements and Quality Assurance

Precision Analysis assumes no responsibility for financial or health consequences for action or lack of action taken by our clients or their agents as a result of these analytical reports. Since Precision Analysis was not involved in the collection of these samples, we cannot attest to the proper collection of said samples and therefore are neither responsible nor liable for the accuracy, validity or completeness of the sample collection.

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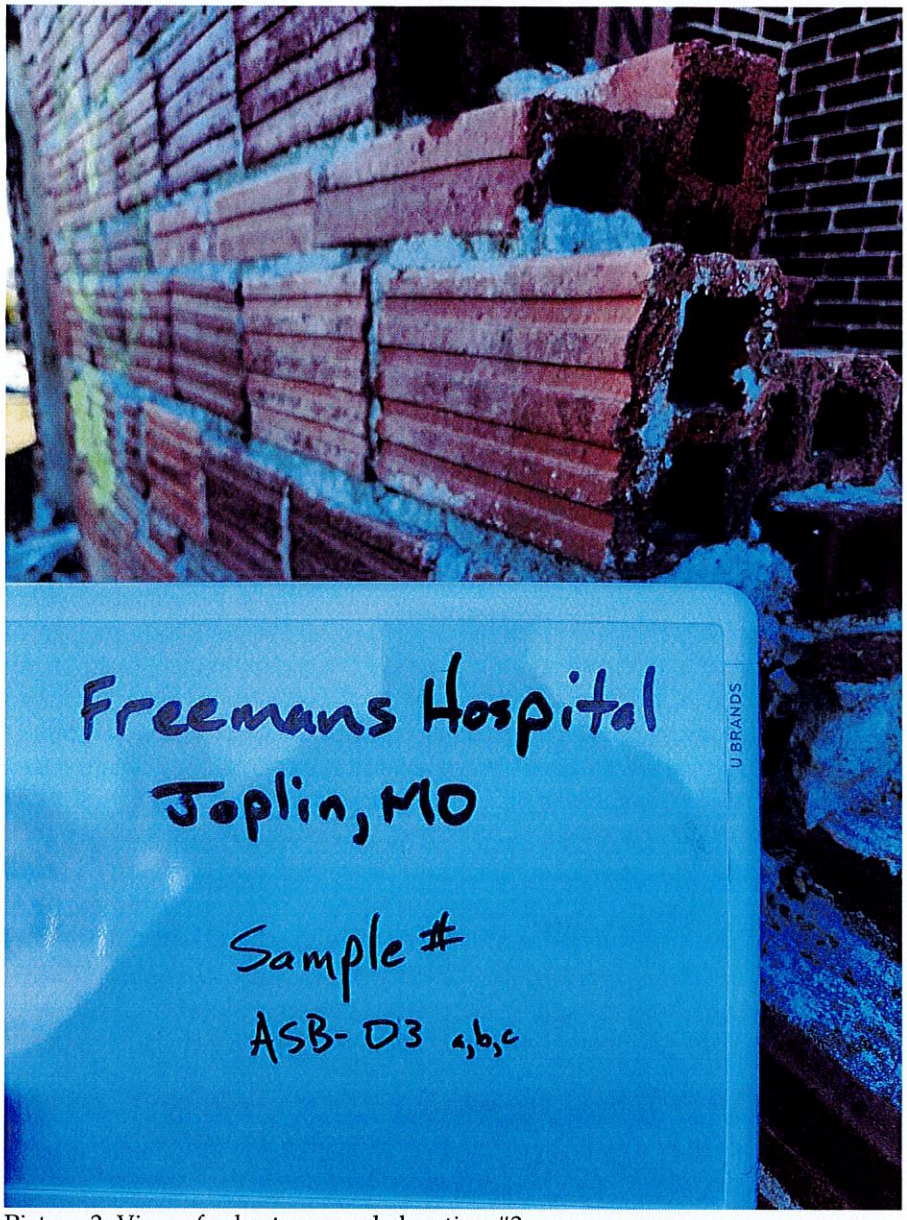
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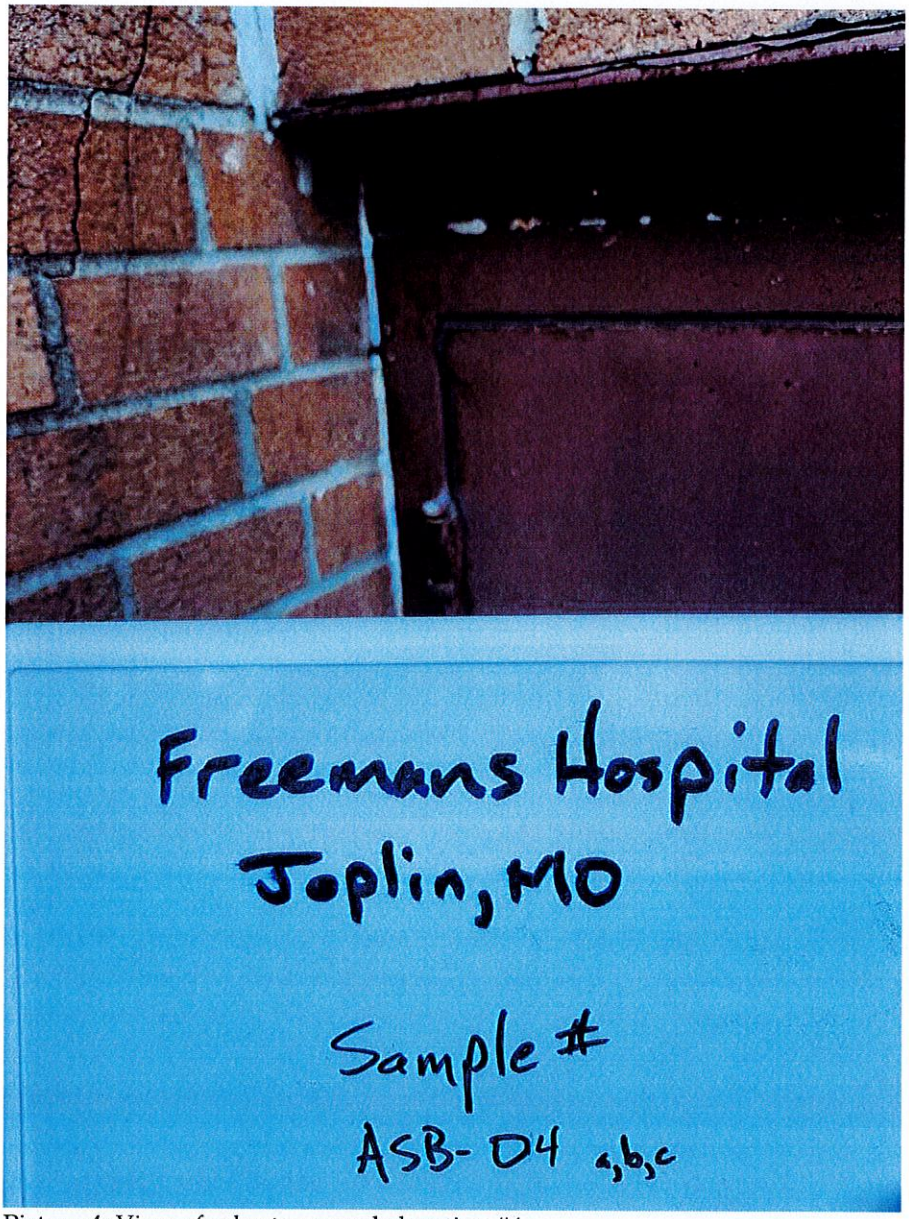
Picture 1: View of asbestos sample location #1.



Picture 2: View of asbestos sample location #2.



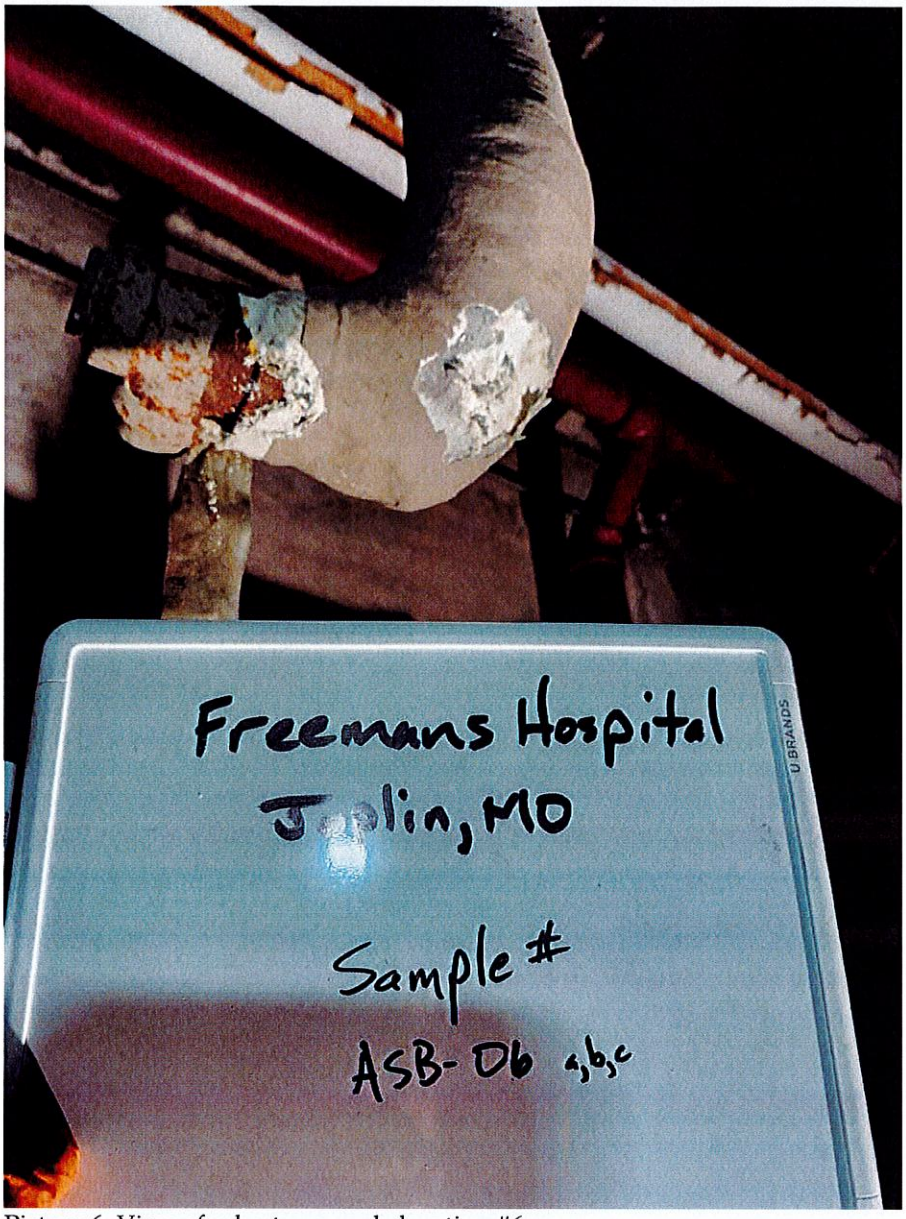
Picture 3: View of asbestos sample location #3.



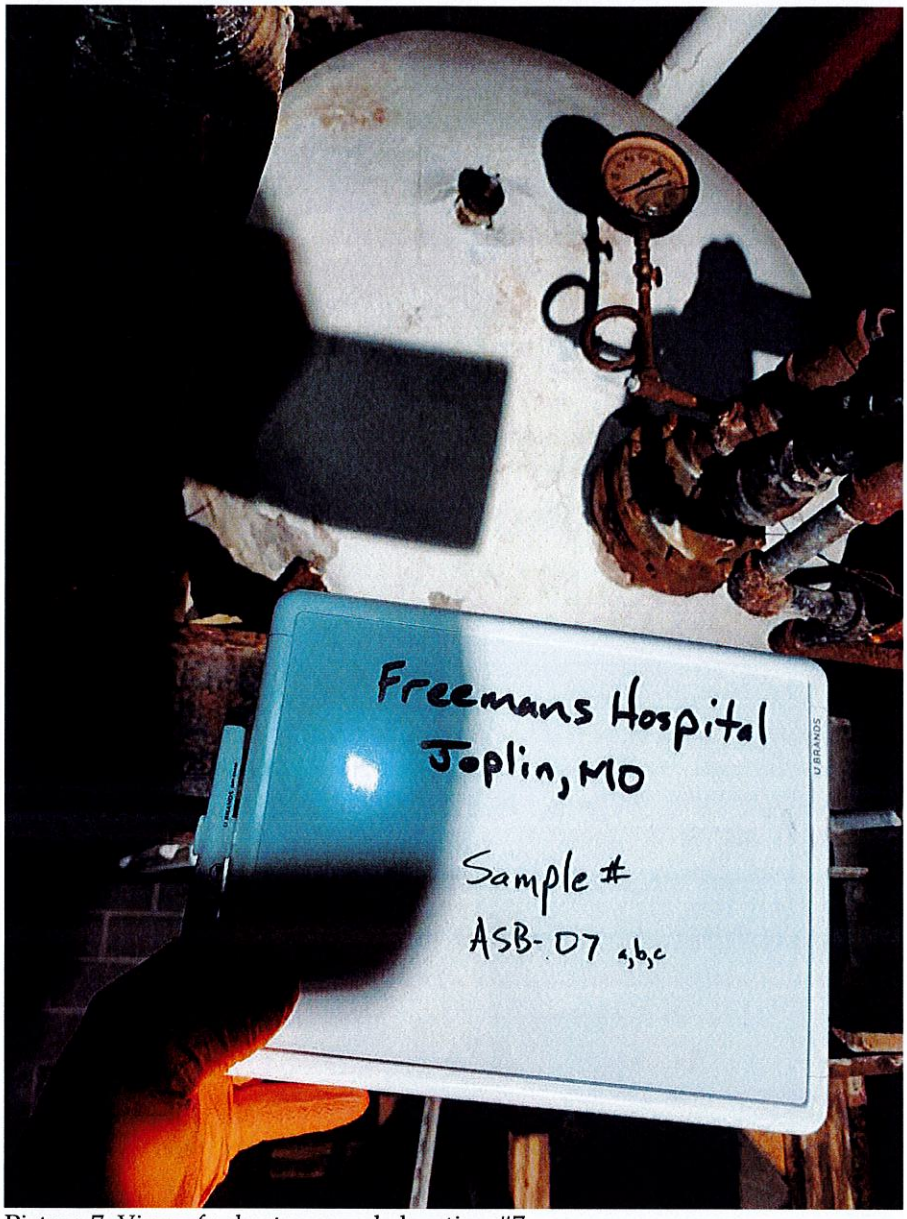
Picture 4: View of asbestos sample location #4.



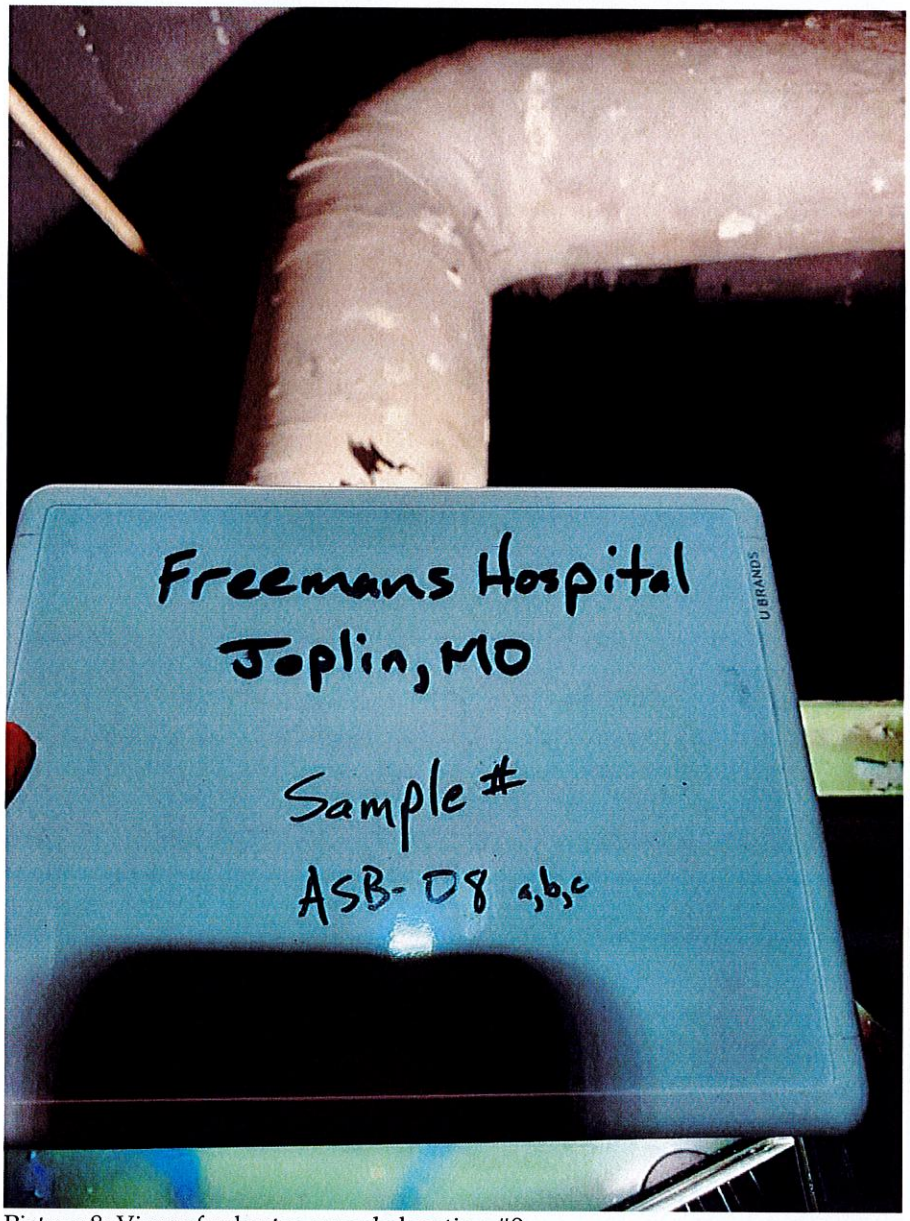
Picture 5: View of asbestos sample location #5.



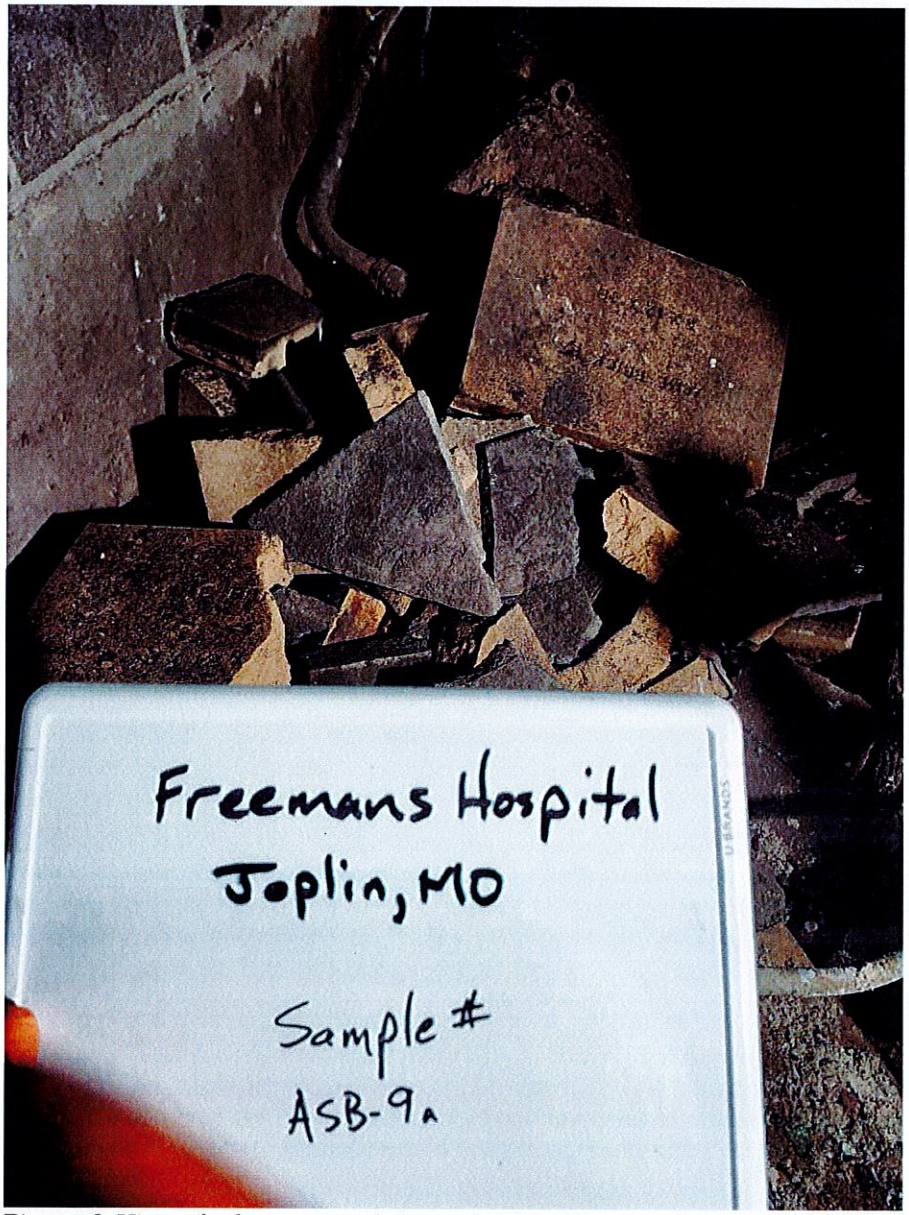
Picture 6: View of asbestos sample location #6.



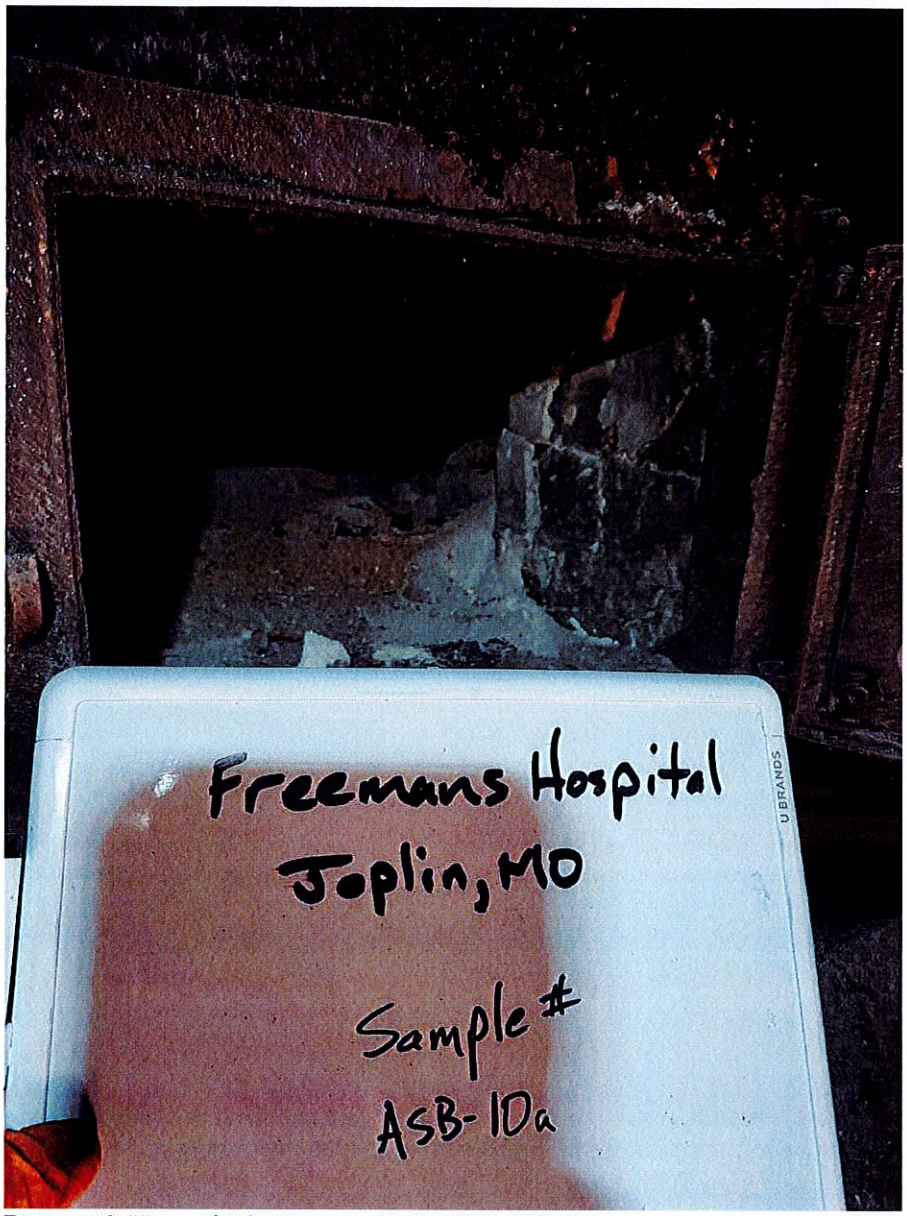
Picture 7: View of asbestos sample location #7.



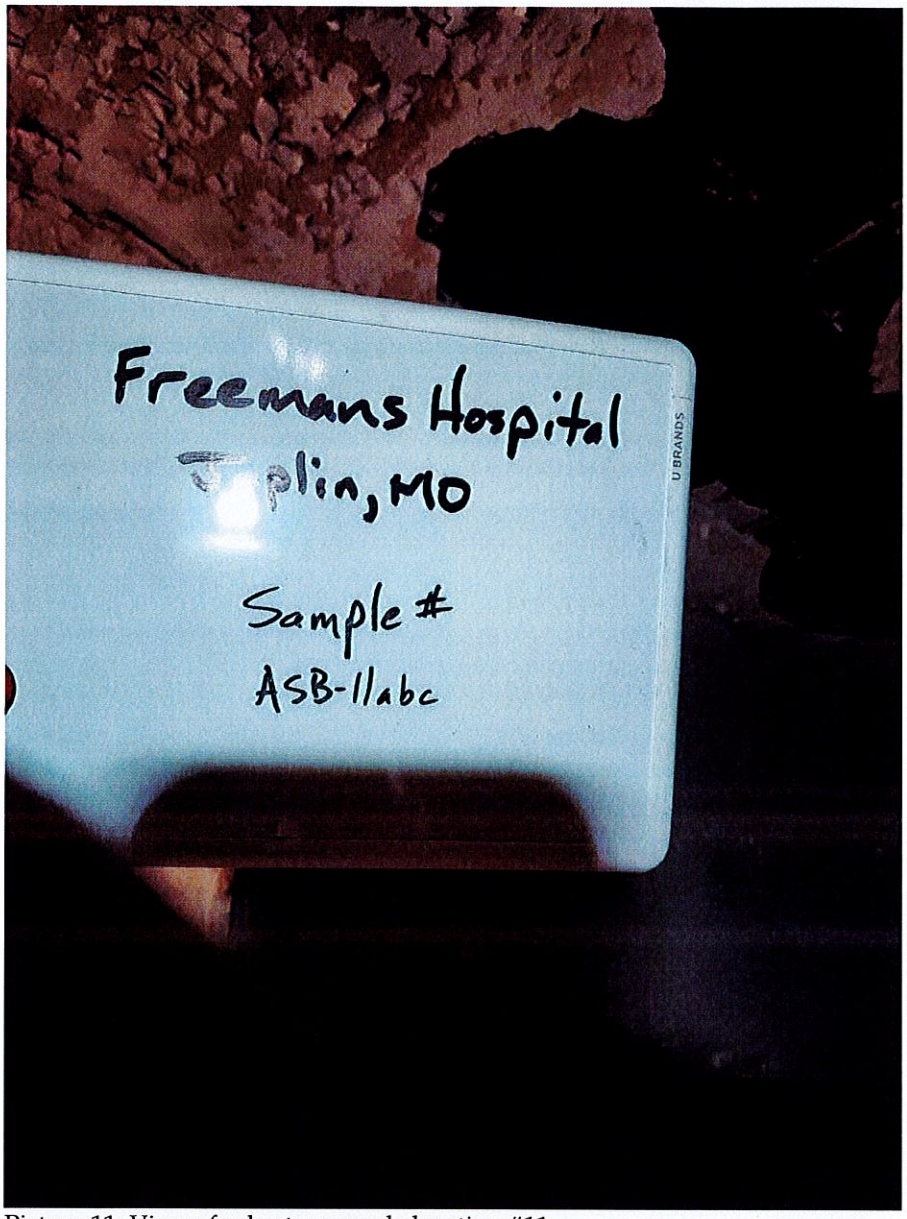
Picture 8: View of asbestos sample location #8.



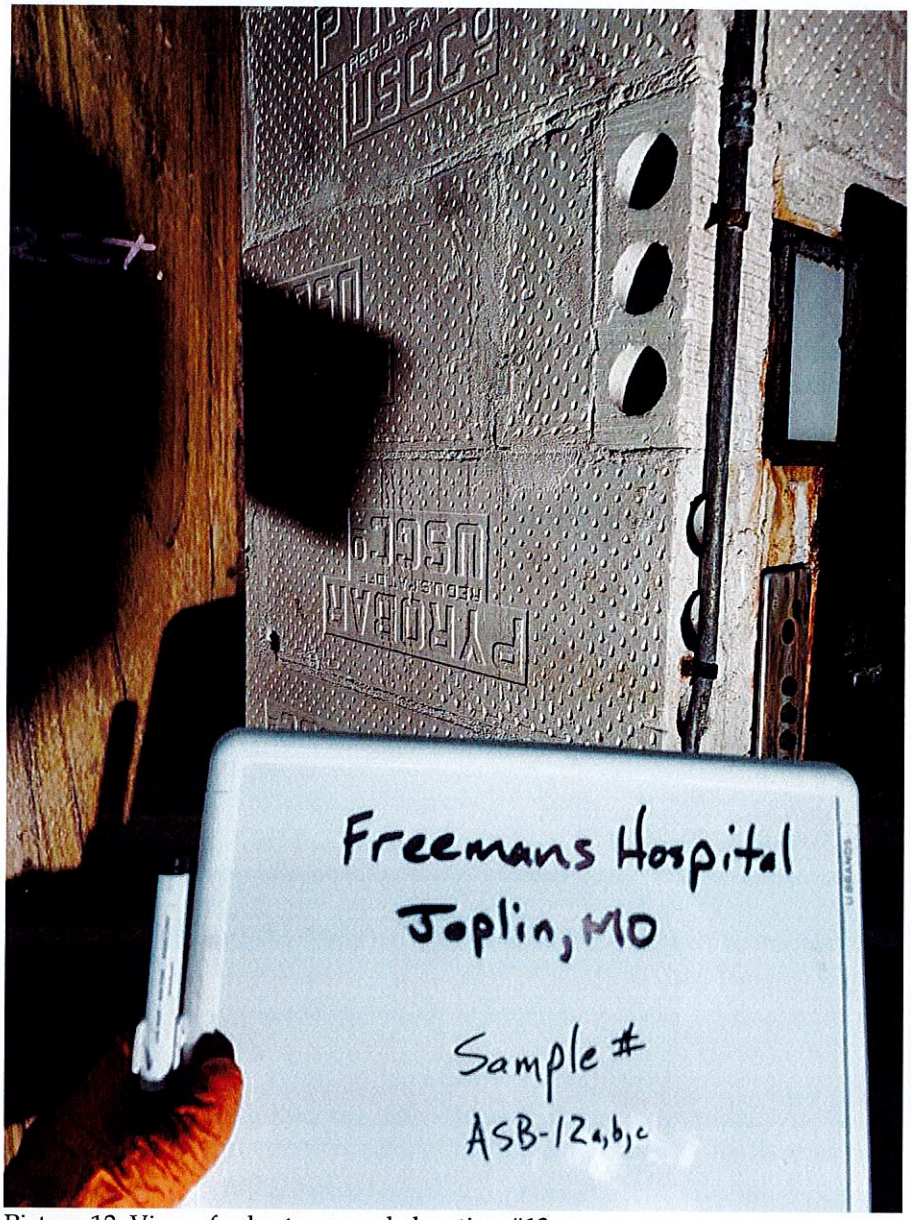
Picture 9: View of asbestos sample location #9.



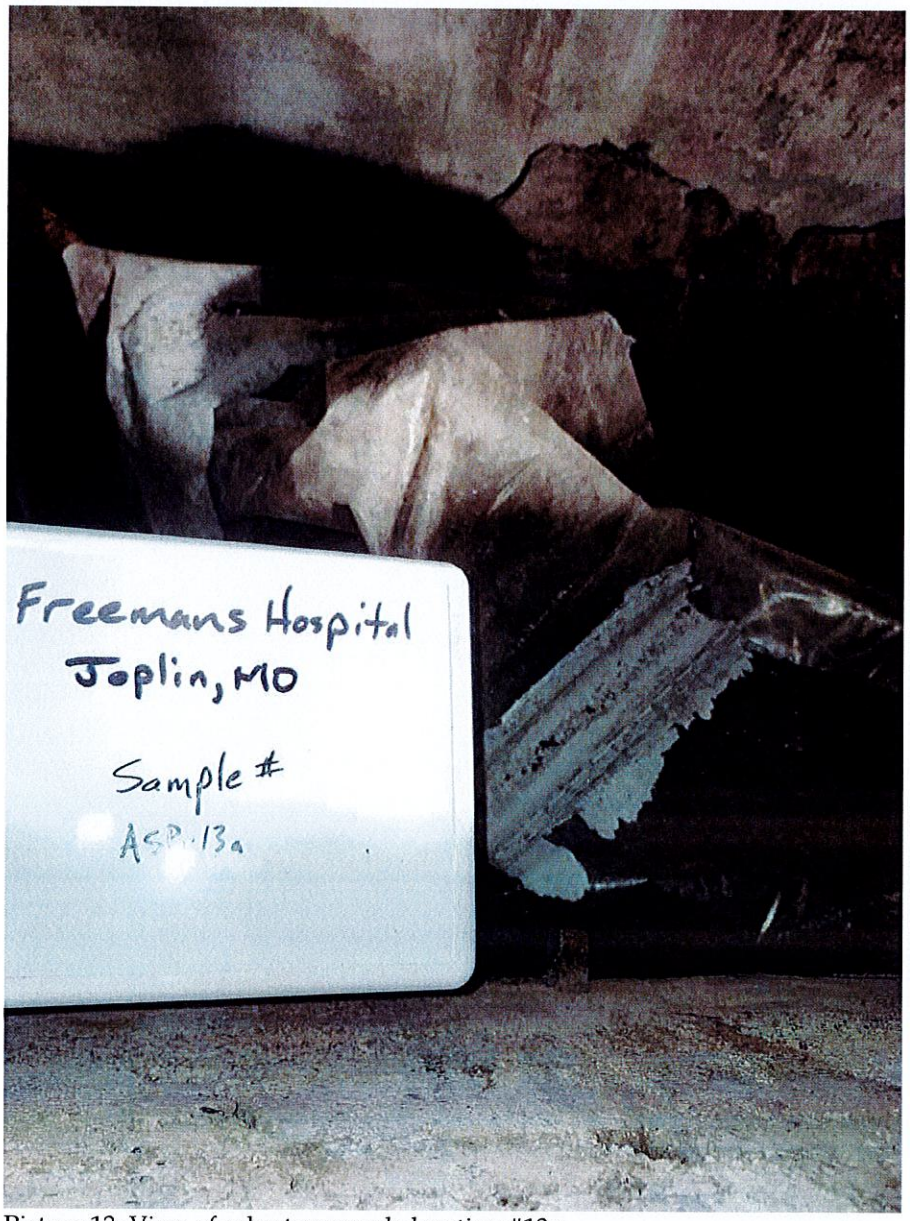
Picture 10: View of asbestos sample location #10.



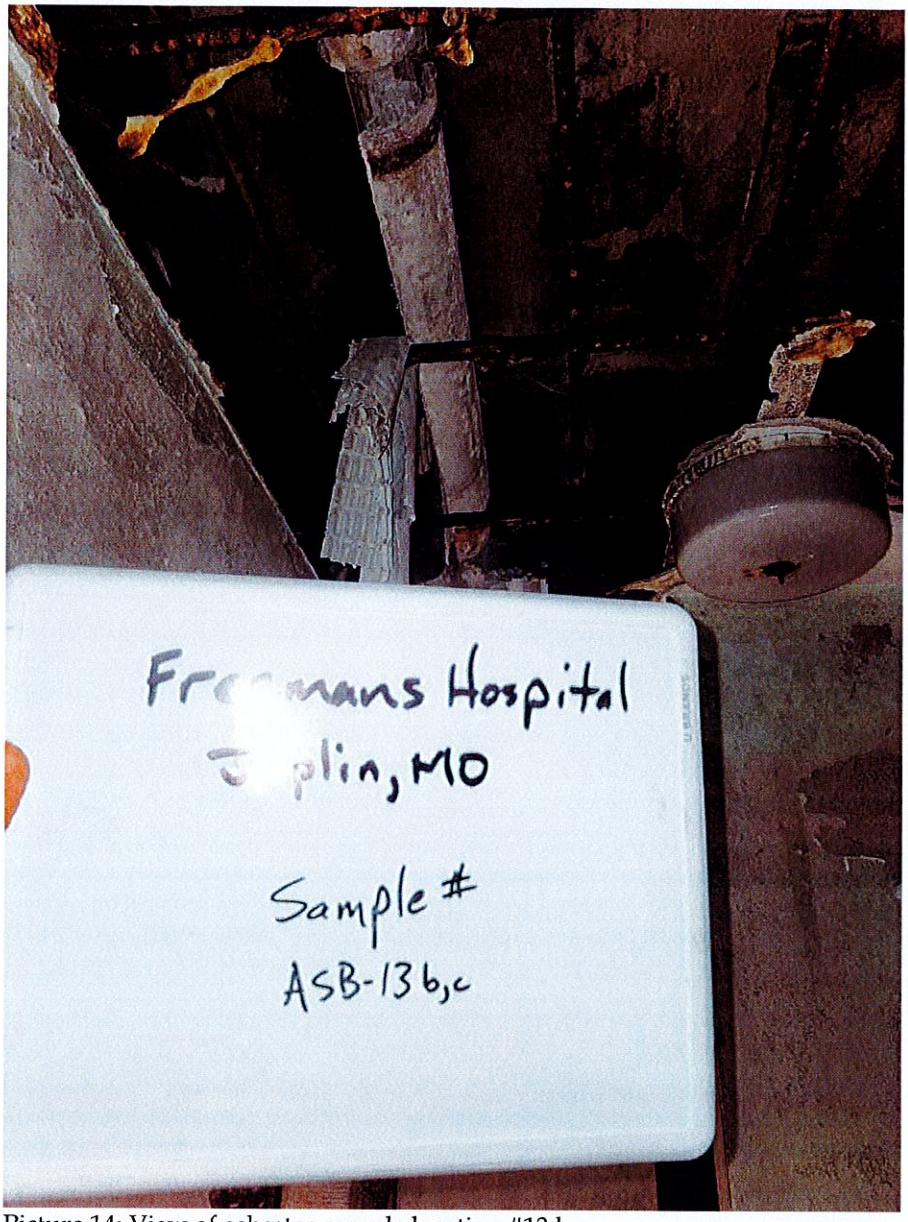
Picture 11: View of asbestos sample location #11.



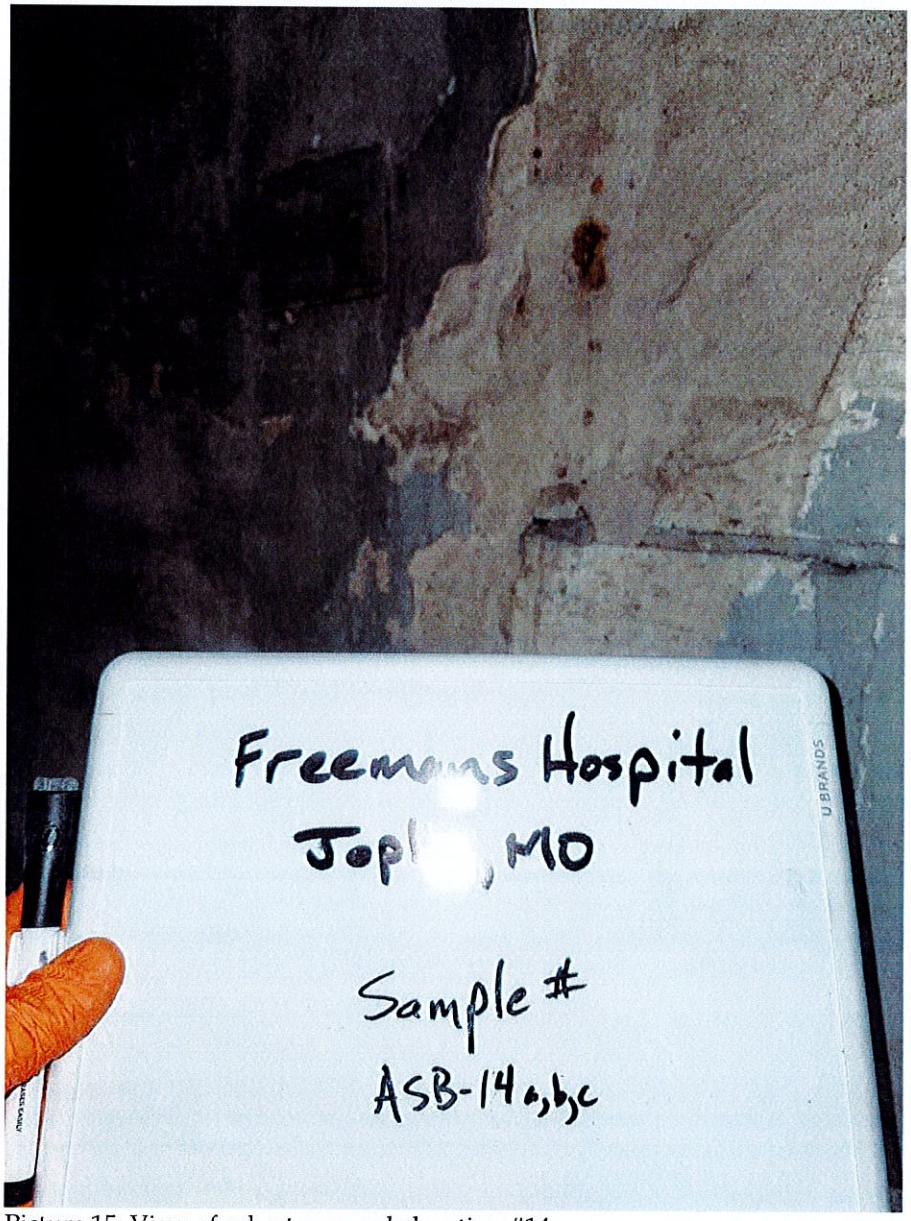
Picture 12: View of asbestos sample location #12.



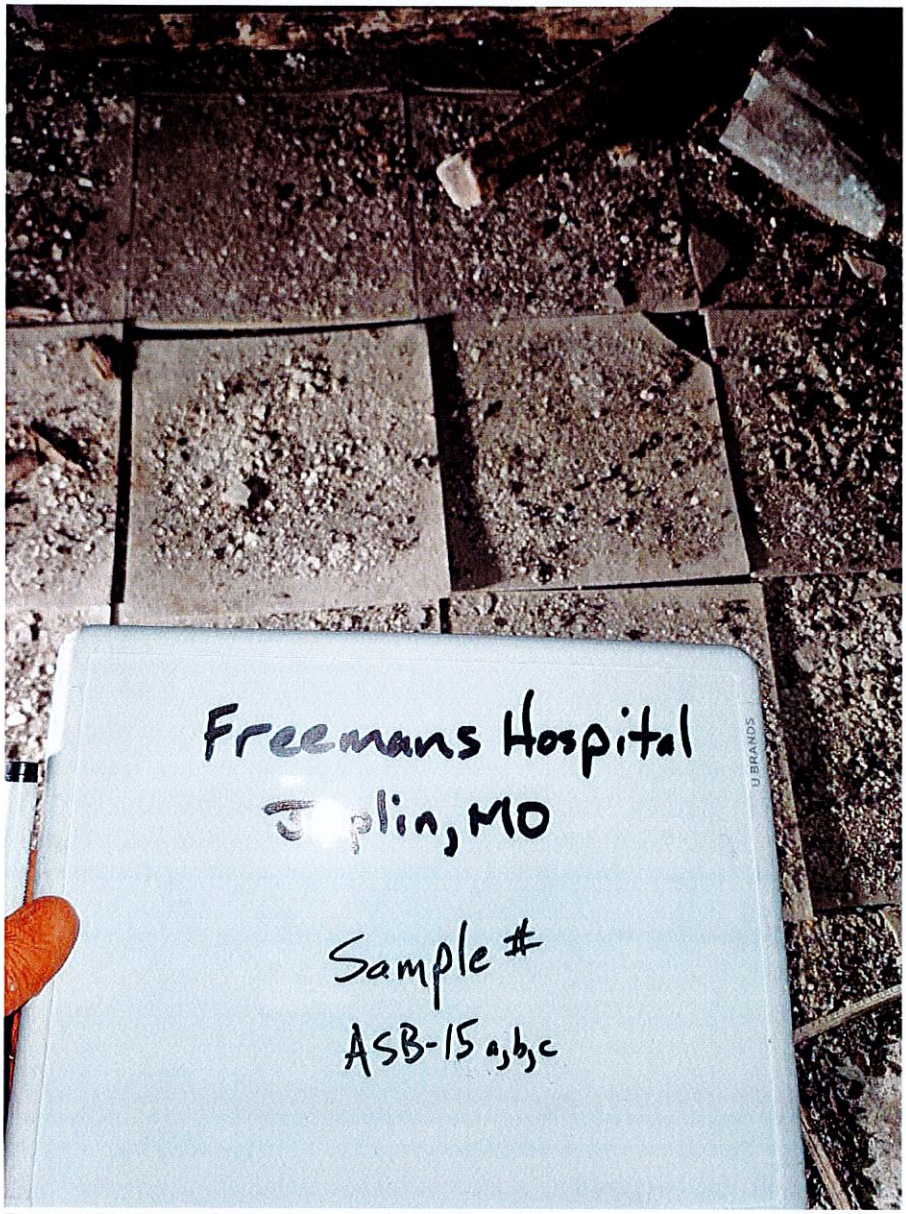
Picture 13: View of asbestos sample location #13a.



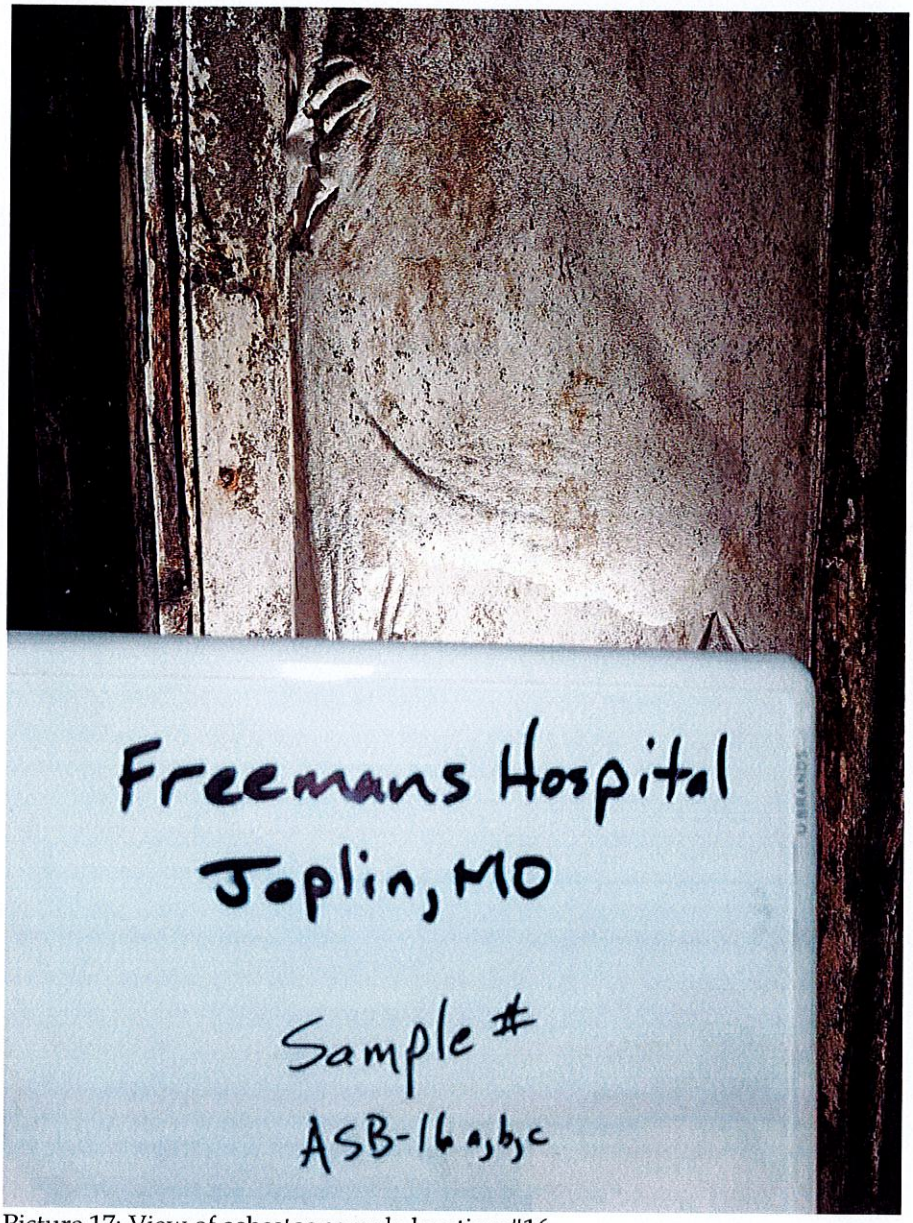
Picture 14: View of asbestos sample location #13 b, c.



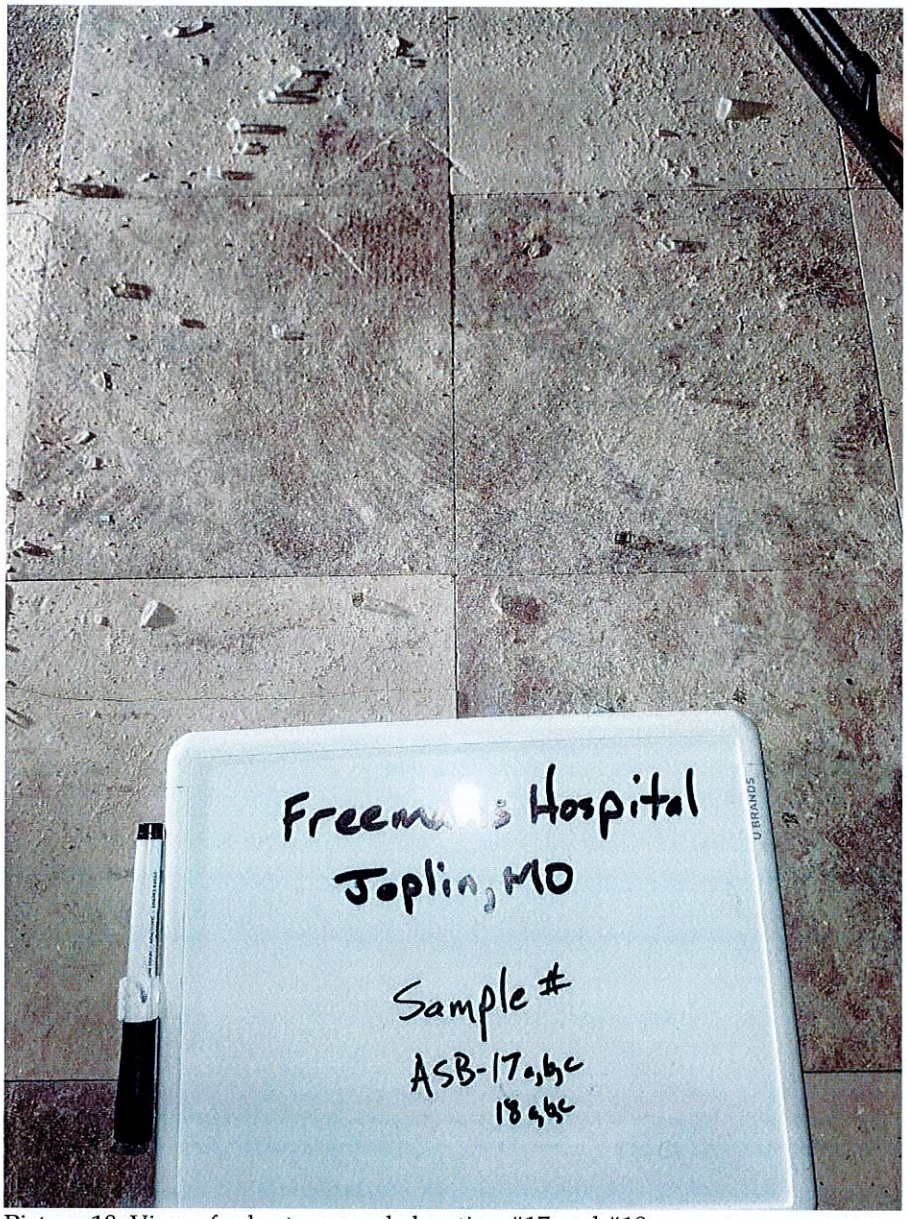
Picture 15: View of asbestos sample location #14.



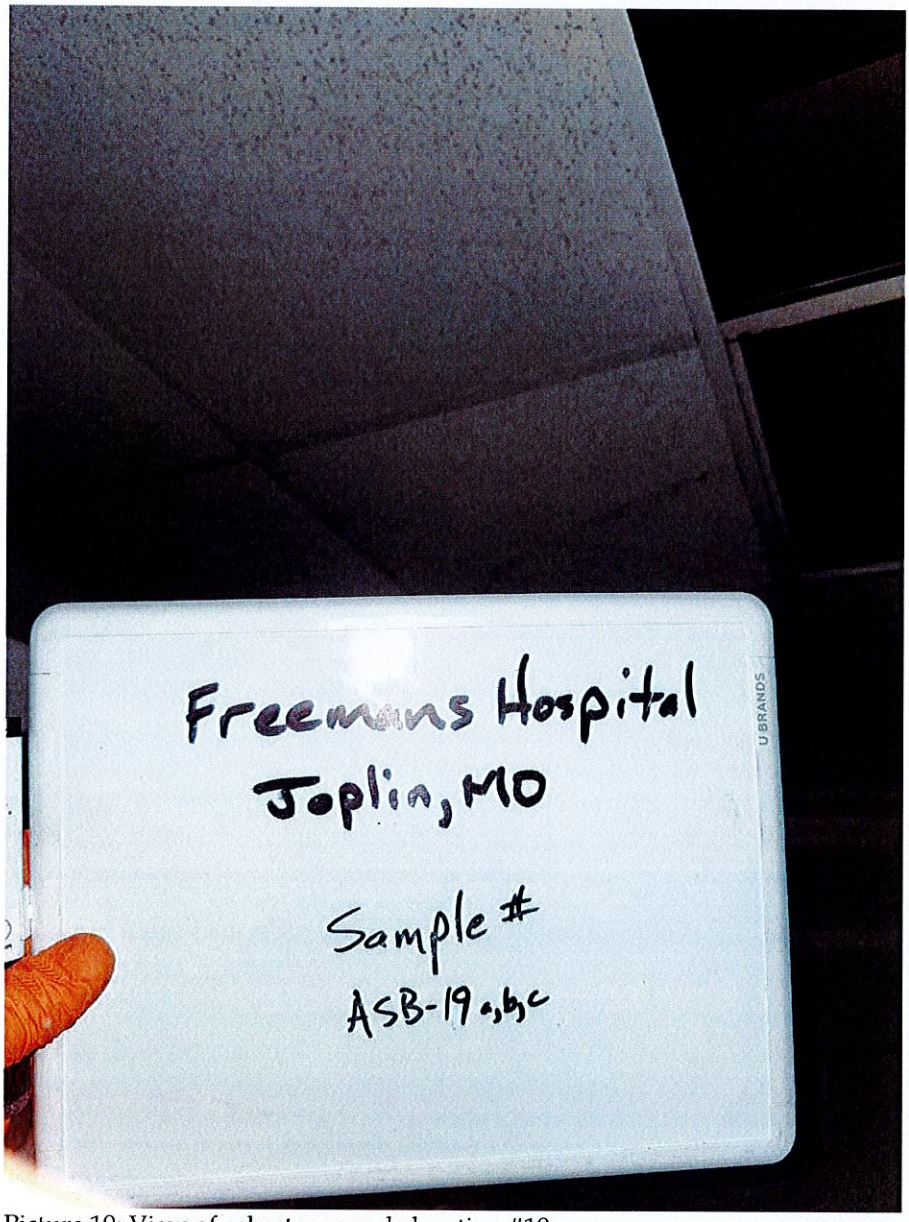
Picture 16: View of asbestos sample location #15.



Picture 17: View of asbestos sample location #16.



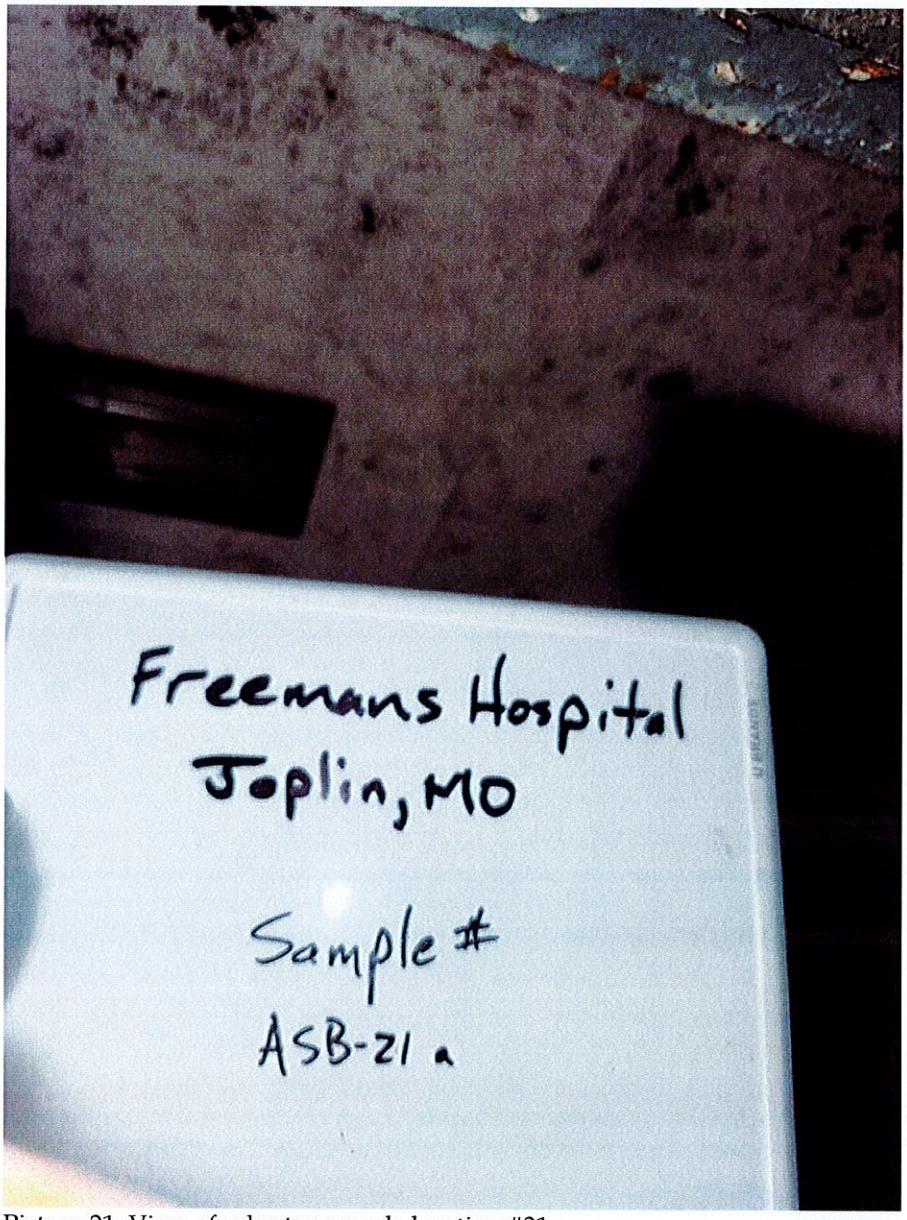
Picture 18: View of asbestos sample location #17 and #18.



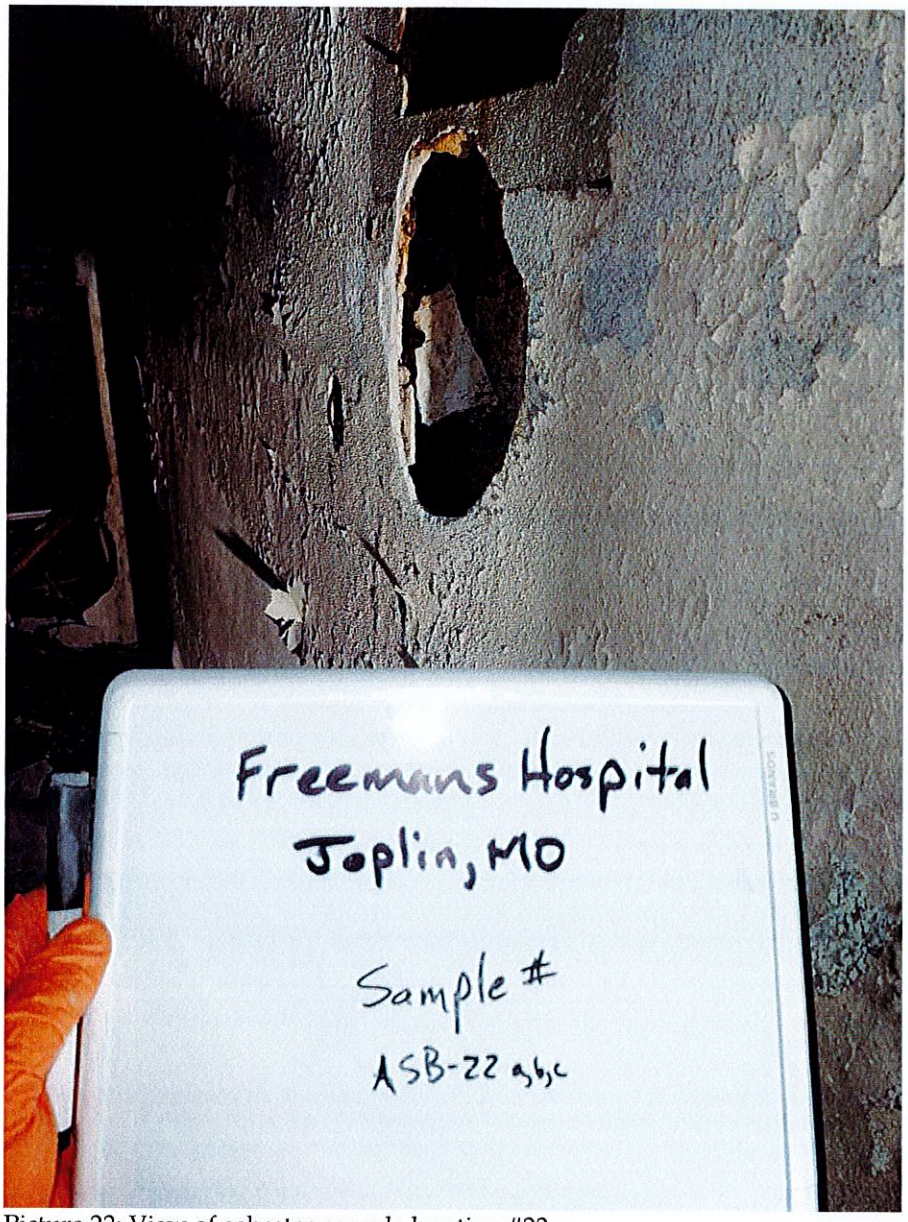
Picture 19: View of asbestos sample location #19.



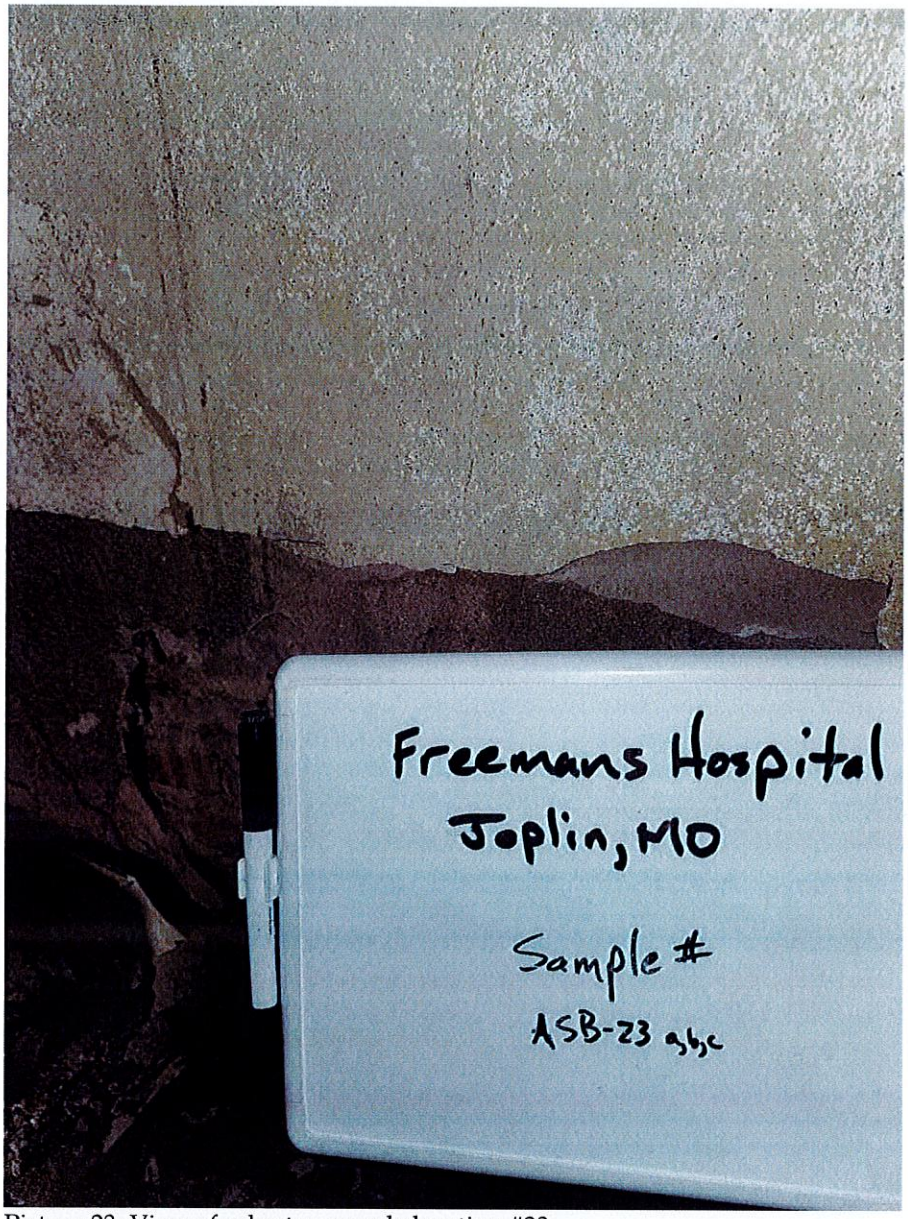
Picture 20: View of asbestos sample location #20.



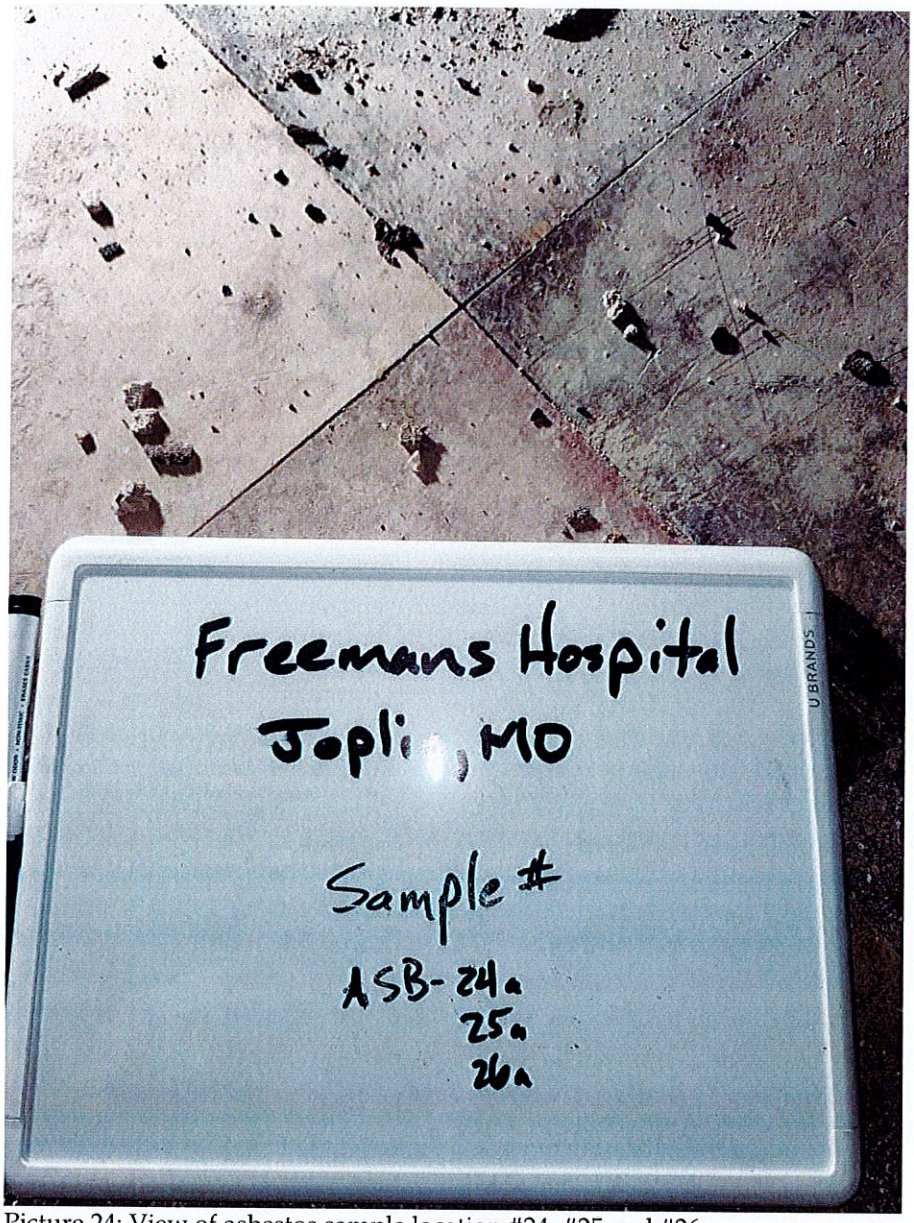
Picture 21: View of asbestos sample location #21.



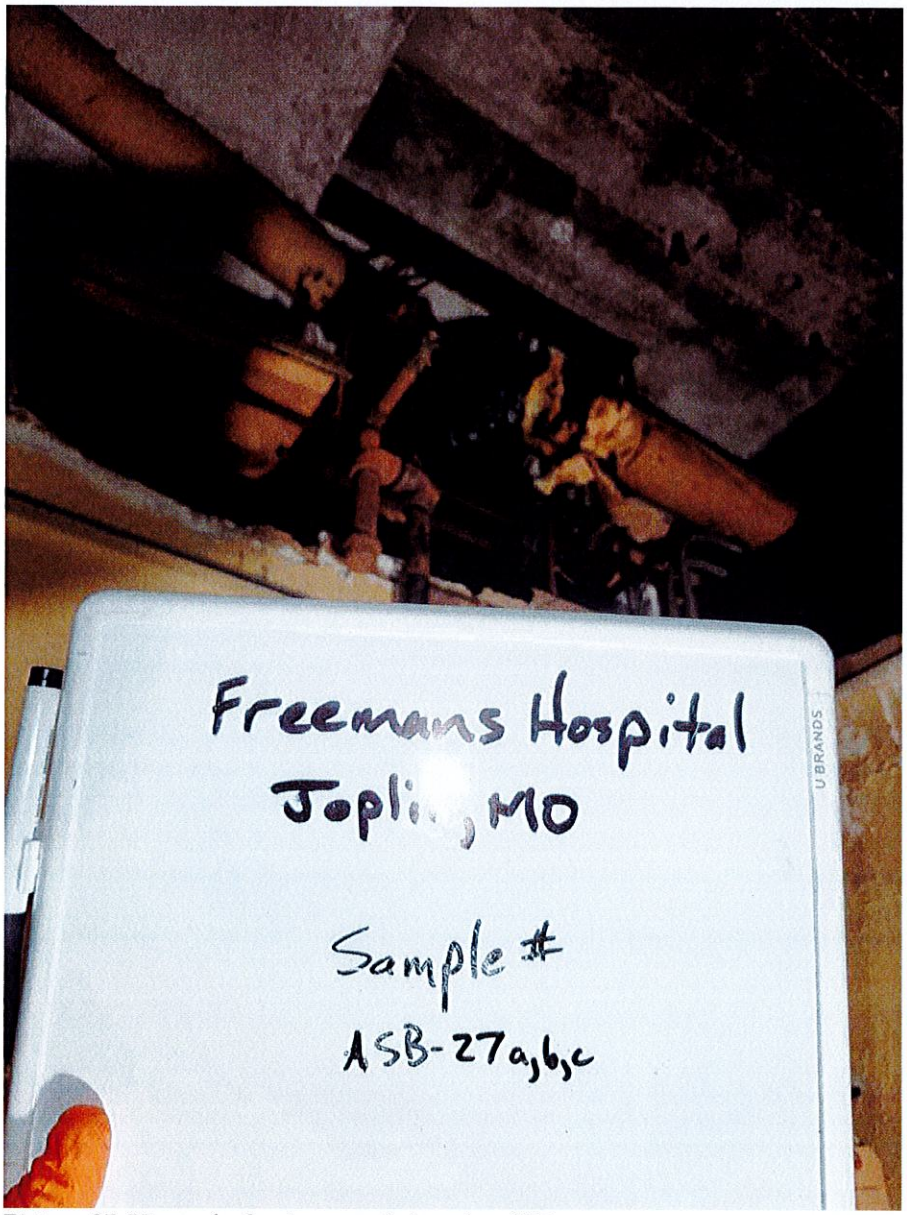
Picture 22: View of asbestos sample location #22.



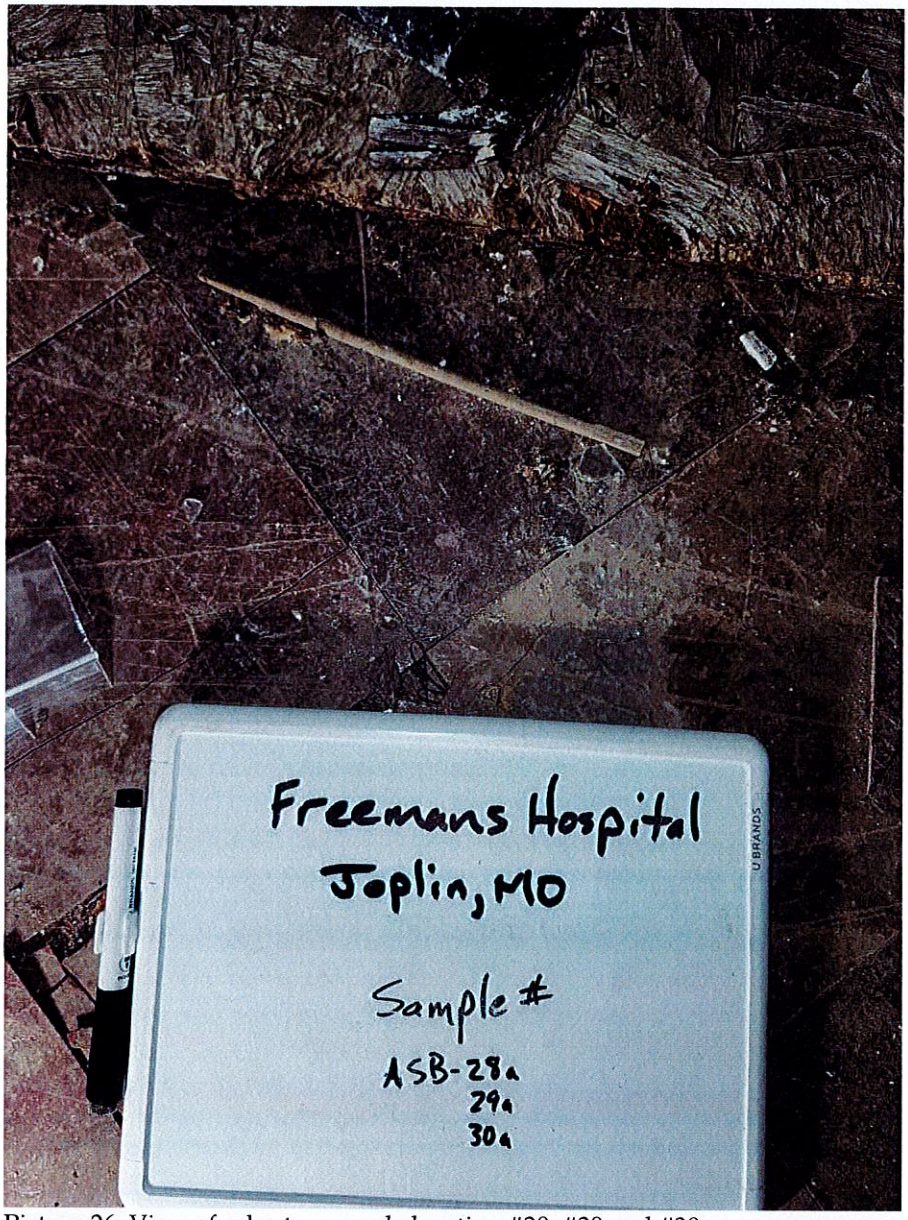
Picture 23: View of asbestos sample location #23.



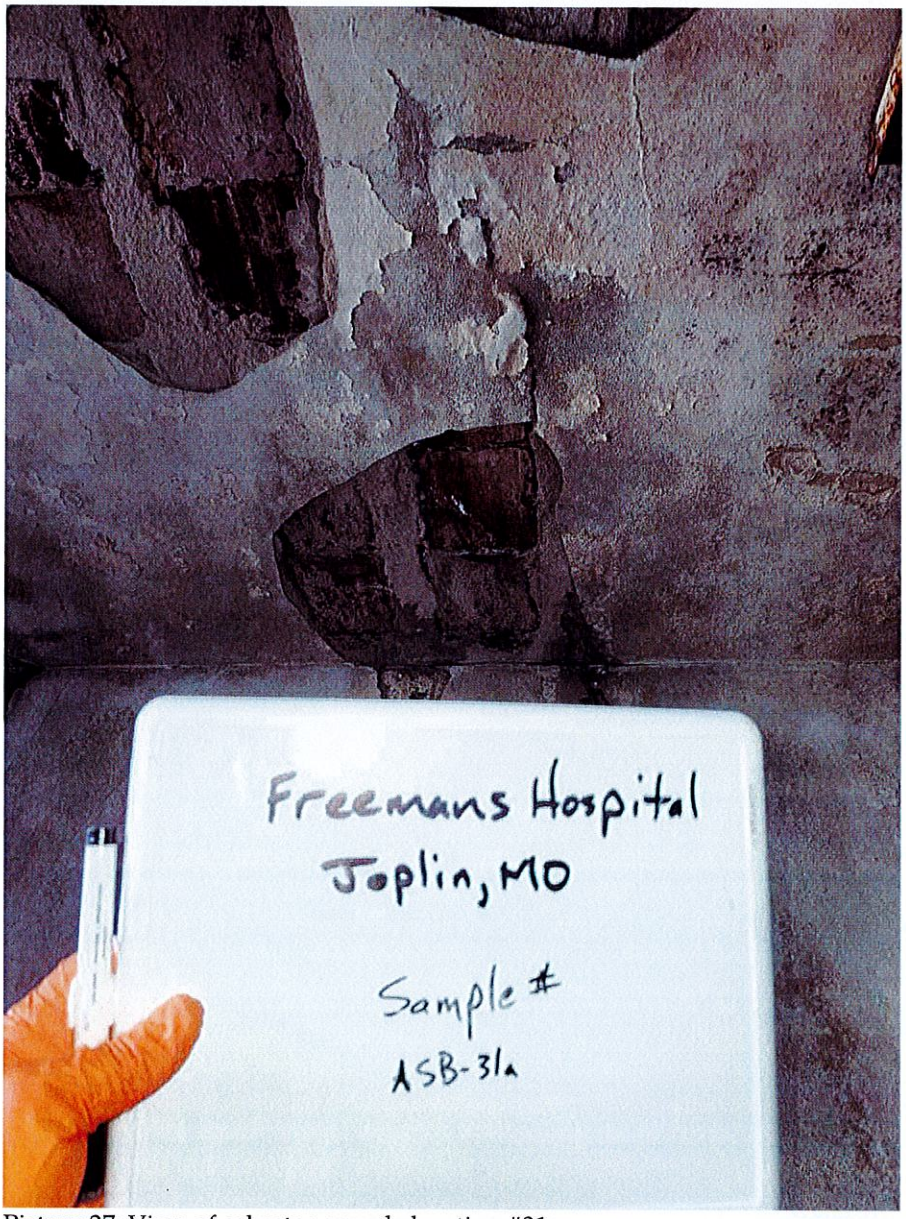
Picture 24: View of asbestos sample location #24, #25 and #26.



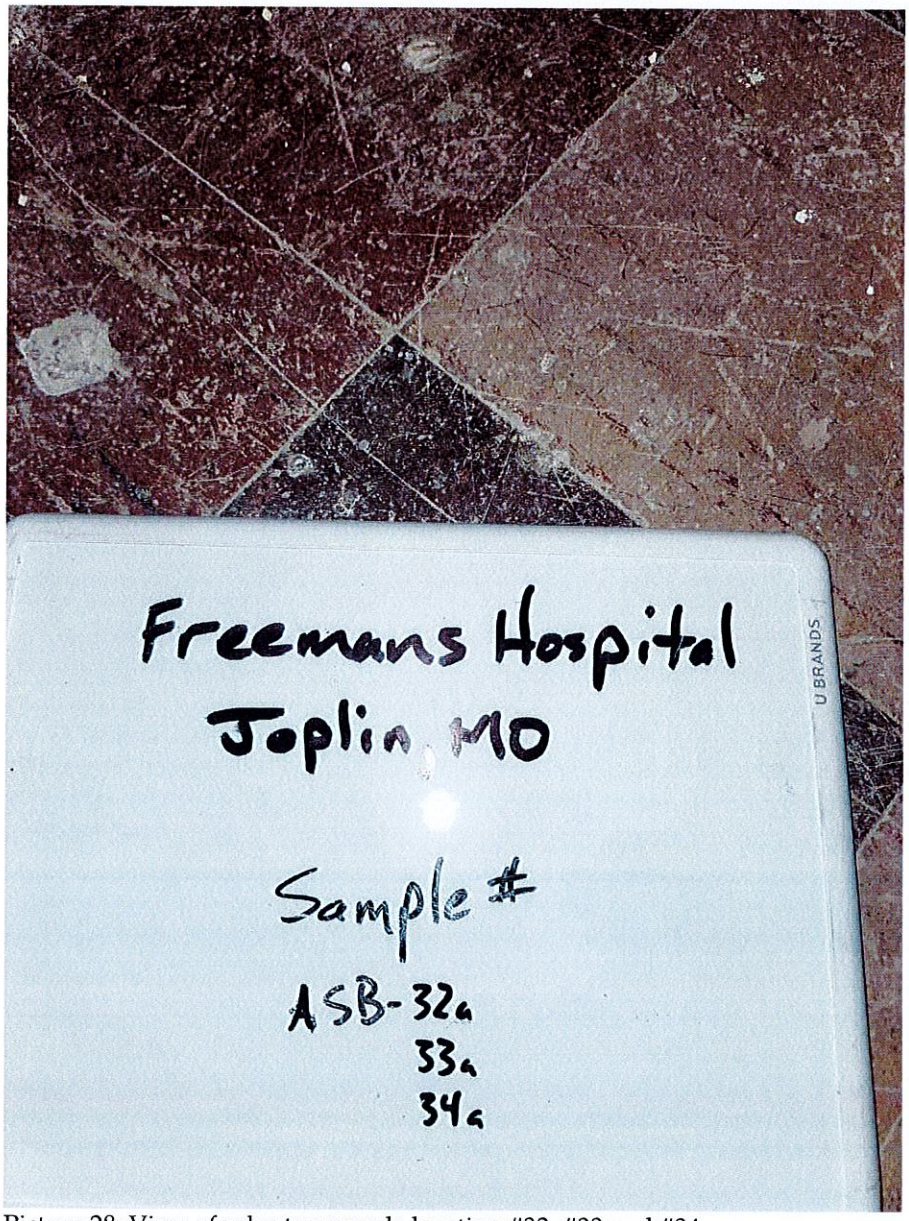
Picture 25: View of asbestos sample location #27.



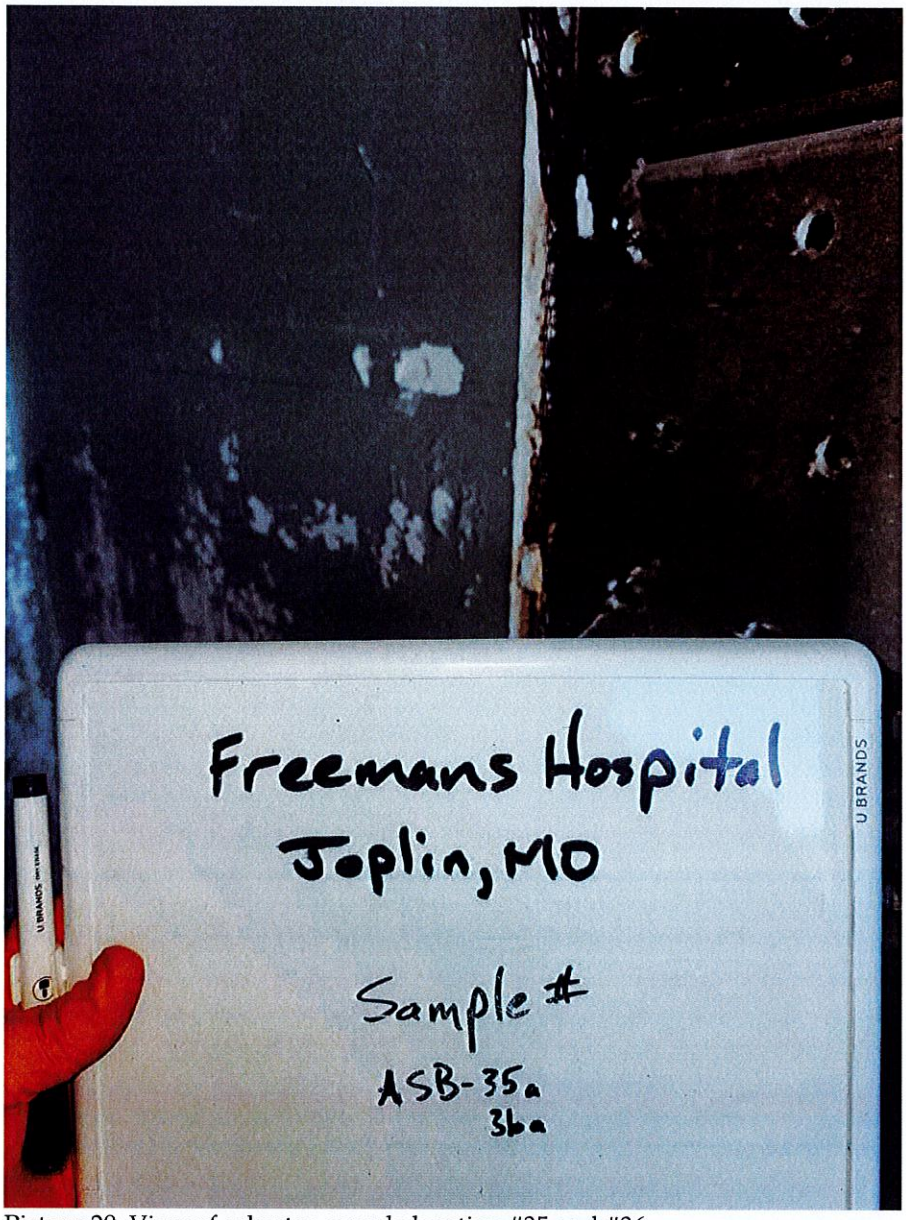
Picture 26: View of asbestos sample location #28, #29 and #30.



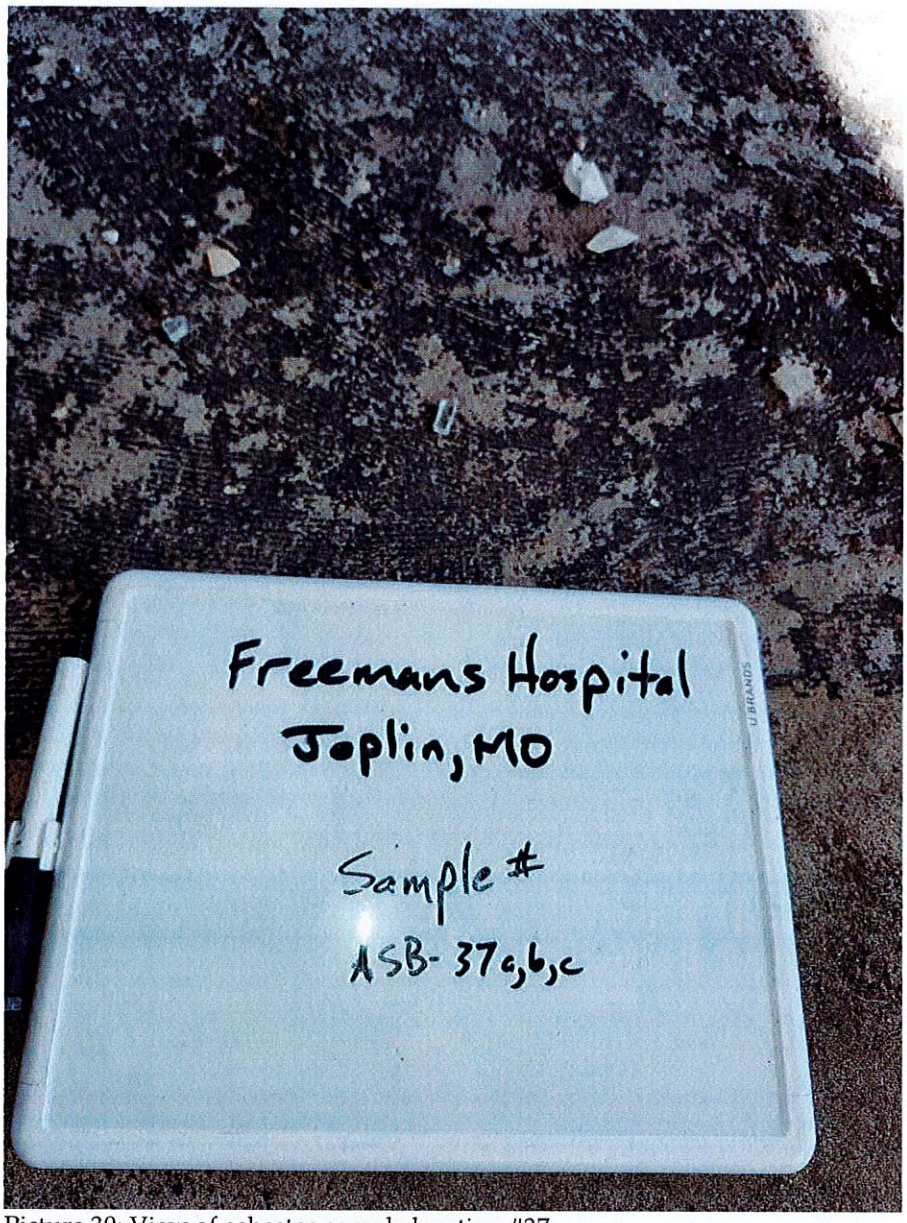
Picture 27: View of asbestos sample location #31.



Picture 28: View of asbestos sample location #32, #33 and #34.



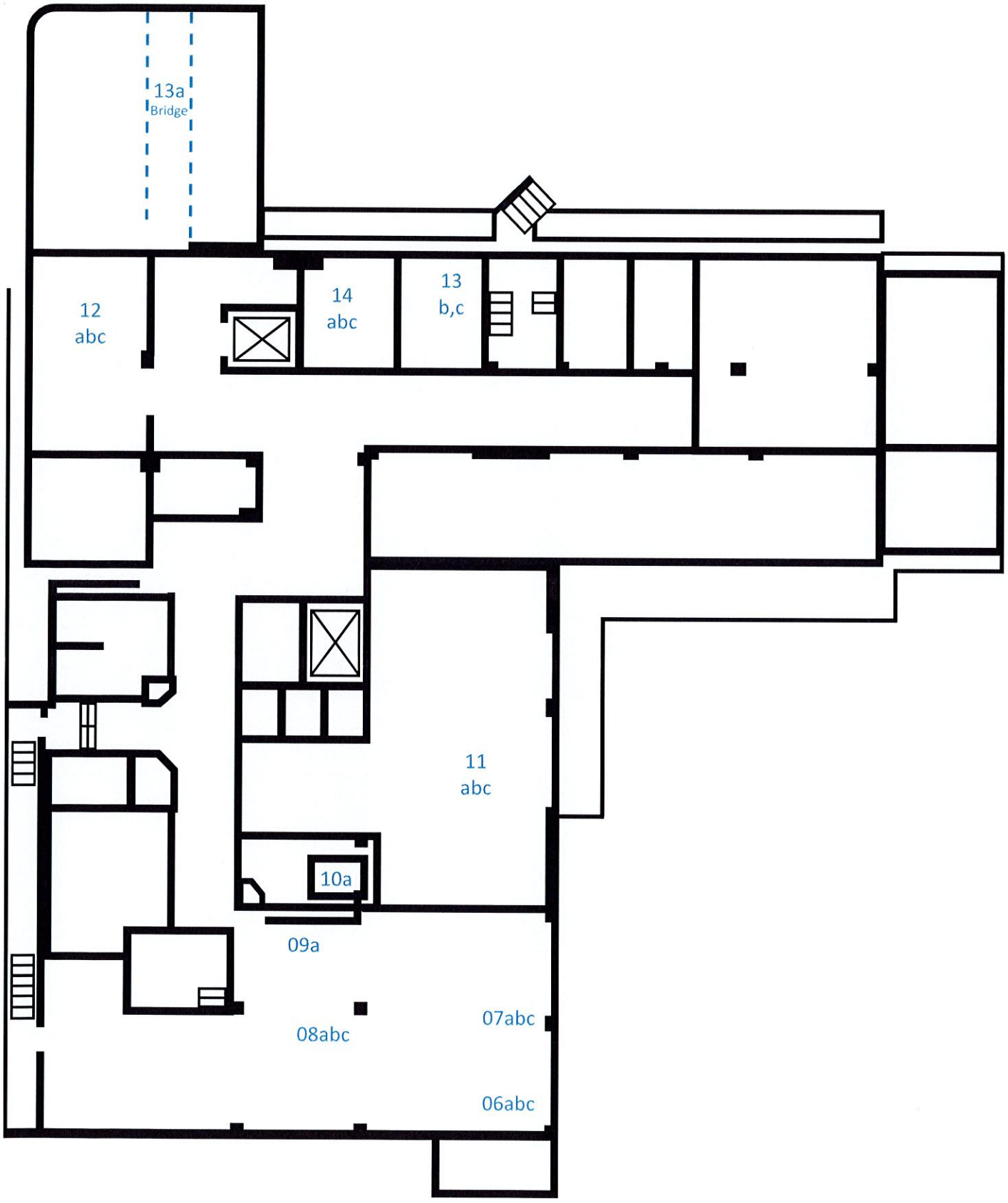
Picture 29: View of asbestos sample location #35 and #36.



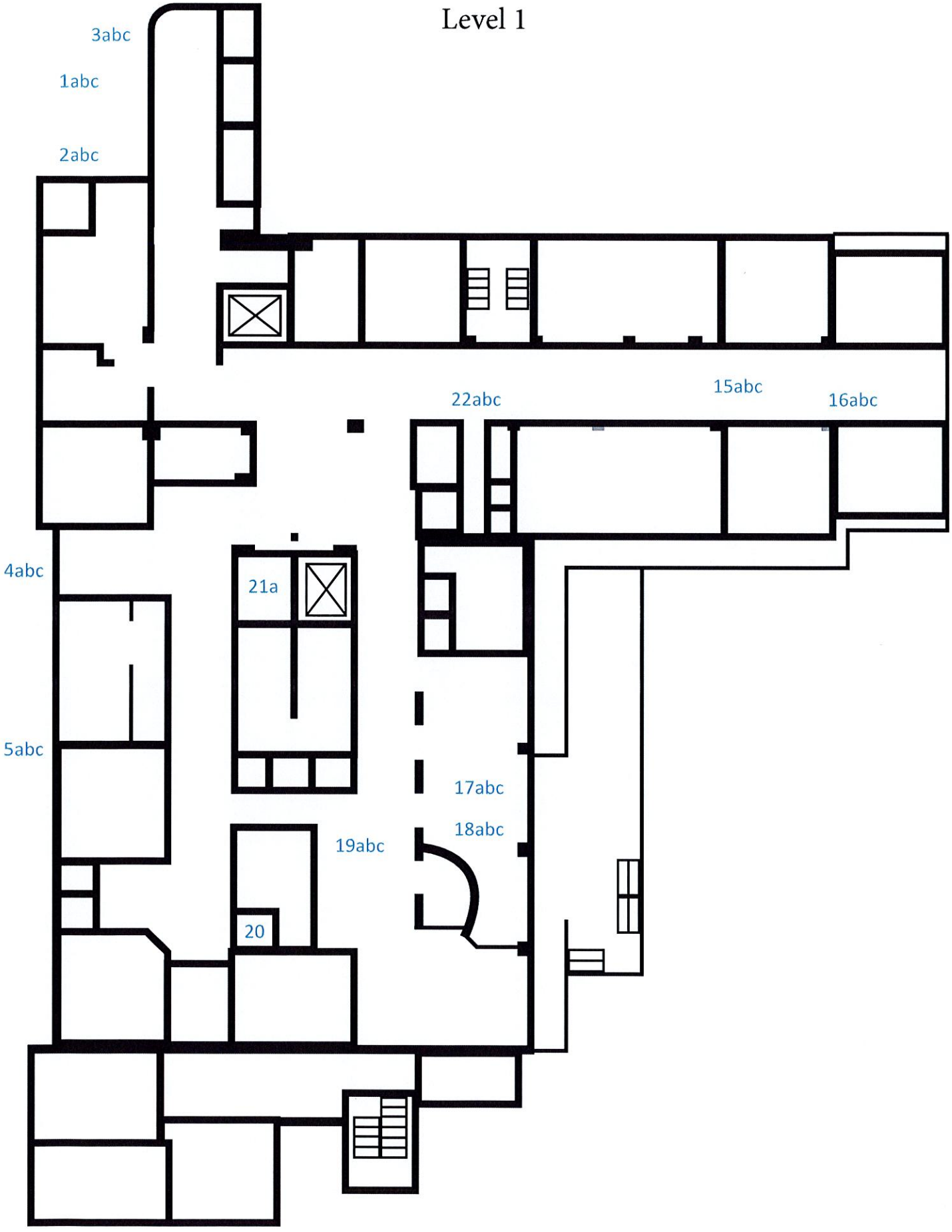
Picture 30: View of asbestos sample location #37.

Sample Location Maps

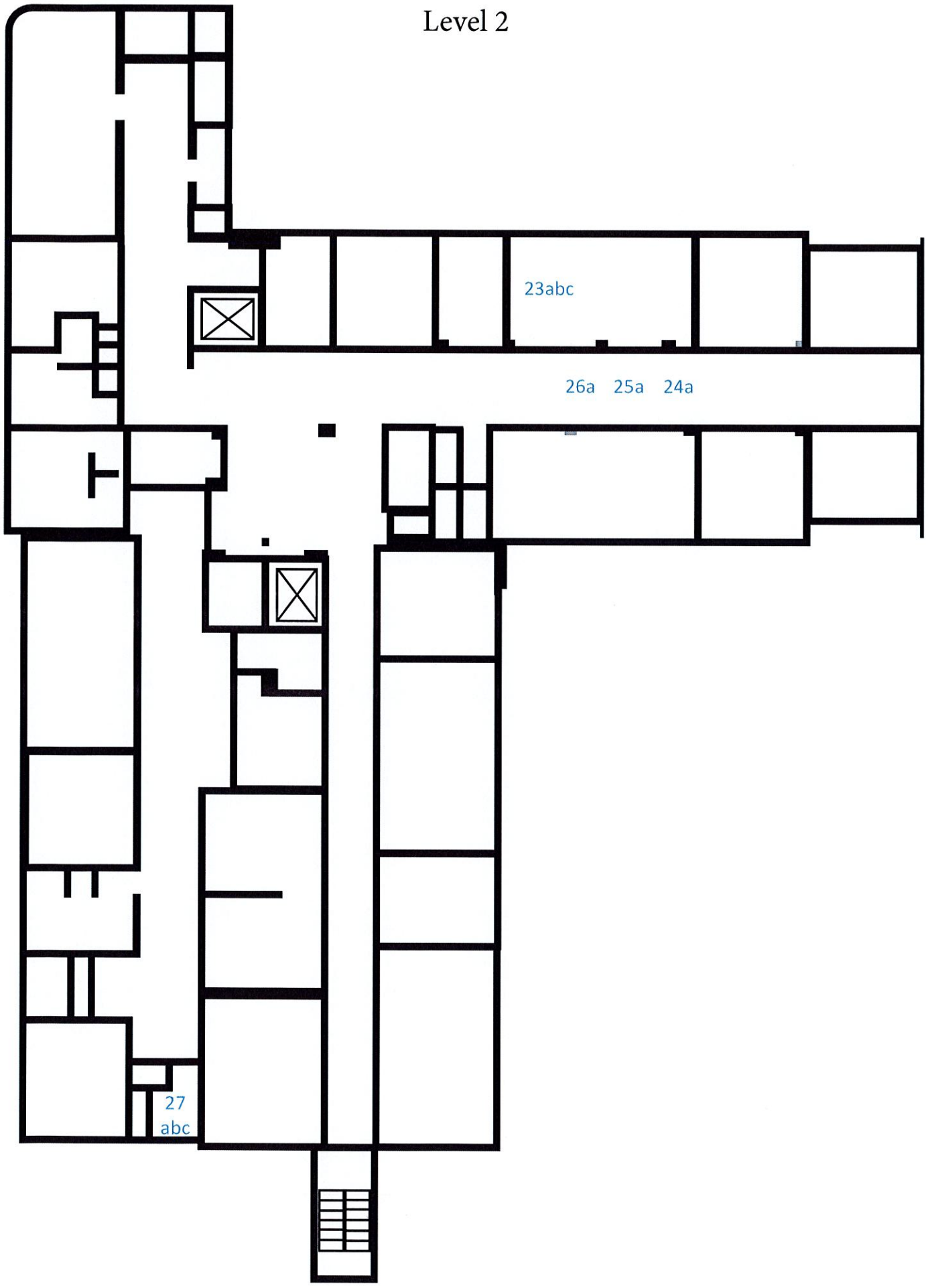
Basement Level



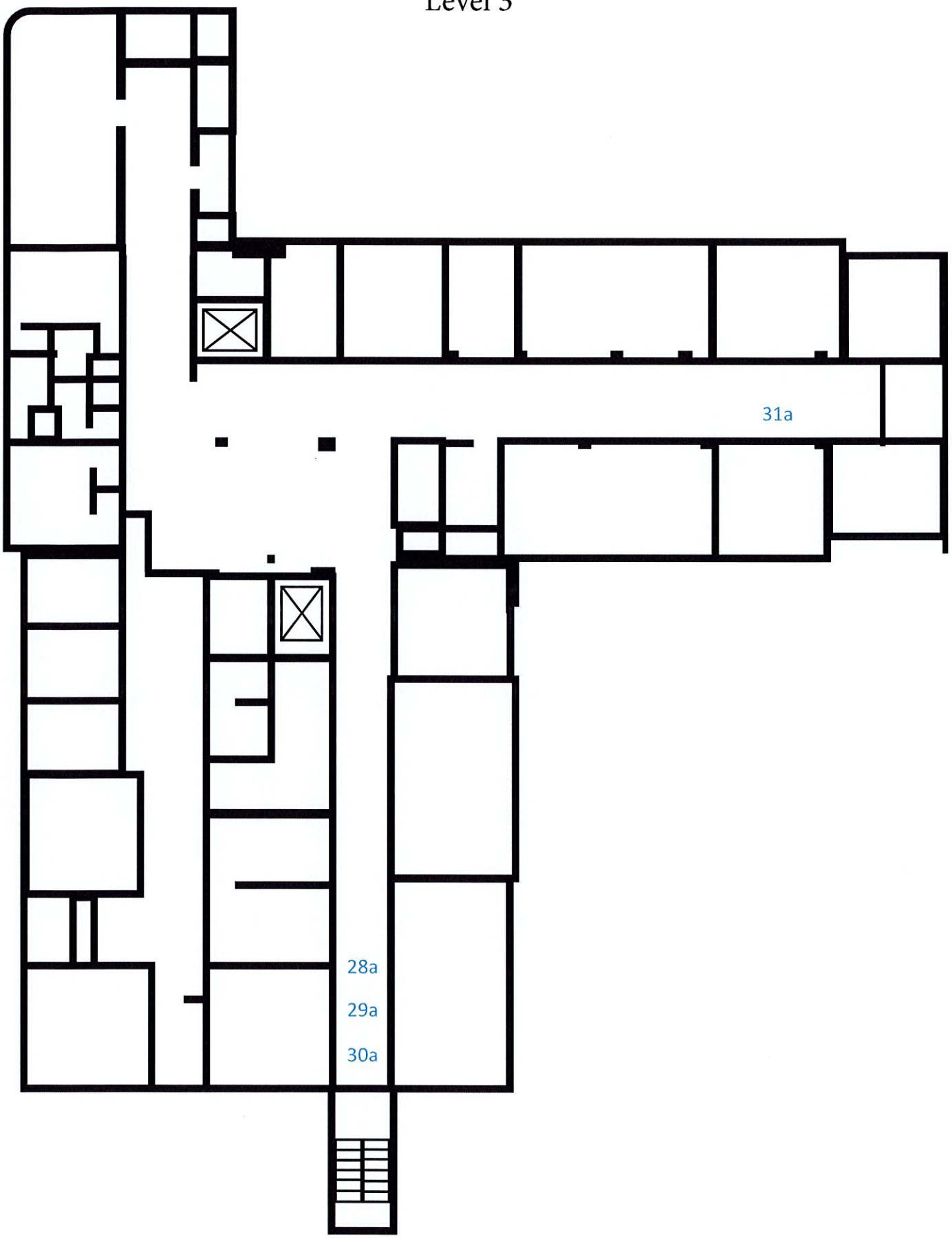
Level 1


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17abc
18abc
19abc
20

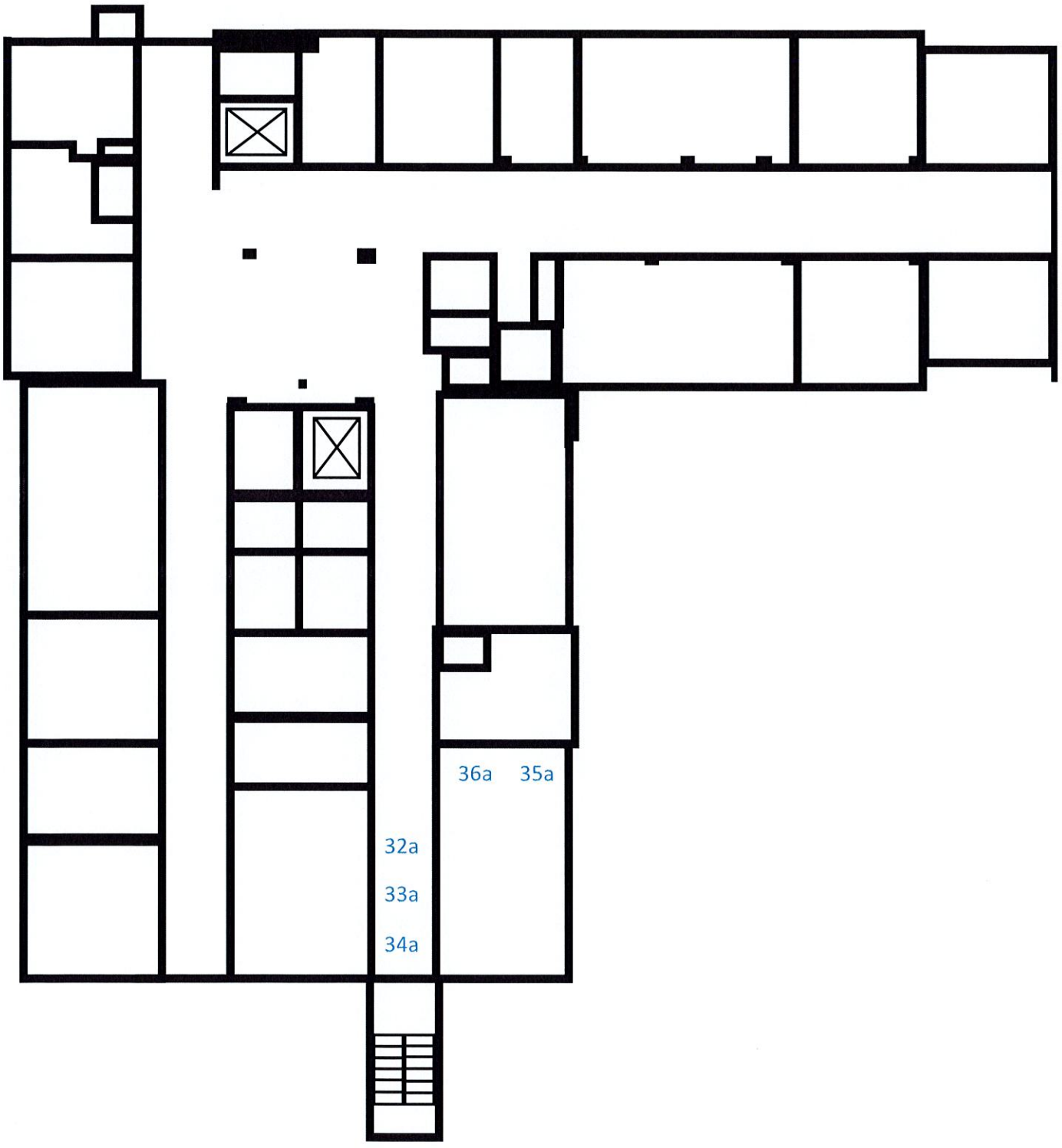
Level 2



Level 3



Level 4



Level 5

