

LIMITED ASBESTOS INSPECTION



Audie L. Murphy VA Hospital

*Room LO11
7400 Merton Minter
San Antonio, Texas 78229*

**for
Ms. Kelly Garcia**

AEHS, Inc.
4402 Center Gate
San Antonio, Texas 78217
(210) 656-9300
www.aehs-sa.com

LIMITED ASBESTOS INSPECTION
Audie L. Murphy VA Hospital (Room L011)
7400 Merton Minter
San Antonio, Texas 78229
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Ms. Kelly Garcia

1.0. GENERAL.

1.1. Construction materials containing asbestos have been used extensively in buildings because it possesses excellent properties for fire-proofing, insulation, and condensation control. Asbestos may be found in: (1) cement products; (2) spray applied or trowel applied materials on ceiling, walls, and other surfaces; (3) insulation on pipes, boilers, tanks, ducts, and other equipment; (4) vinyl floor tiles; (5) roofing; (6) flooring coatings; and (7) other miscellaneous products.

1.2. Friable materials are those materials that when dry can be crumbled, pulverized, or reduced to powder by hand pressure. Material that contains more than one percent asbestos by weight is considered to be asbestos containing material. Some of these asbestos-containing building materials are not considered friable now, but could become friable if not properly managed and maintained under an asbestos management program.

1.3. The concern about exposure to asbestos in buildings is based on evidence linking various respiratory diseases with occupational exposure in the shipbuilding, mining, milling, and fabricating industries. The presence of asbestos in a building does not mean that there is a significant health risk to building occupants. As long as asbestos-containing materials remain in good condition and are not disturbed, exposure is unlikely. Through proper control of building operations and maintenance activities, disturbance or damage to asbestos-containing materials are minimized, thus limiting the building occupant's exposure to air borne asbestos fibers.

1.4. Building alterations and/or demolition require knowledge of what materials contain asbestos and if they will be removed or disturbed during the project. Under the Clean Air Act, EPA has issued a National Emission Standard for Asbestos (40 CFR 61.140 - 61.156). This Standard regulates reporting requirements, work practices, waste disposal, and emissions from facility modification and/or demolition operations. The Standard applies only to materials containing more than one percent asbestos. The State of Texas has adopted a set of regulations (25 TAC 295.31 - 295.70) known as "Texas Asbestos Health Protection Rules" which govern asbestos removal, encapsulation, or enclosure, including licensing and regulation, in all buildings of public occupancy or access. Any disturbance or removal of ACM in the building or facilities are subject to this Texas Statute.

2.0. BACKGROUND.

2.1. AEHS, Inc. was contacted by Ms. Kelly Garcia concerning the need for an Asbestos Inspection.

2.2. The facility to be inspected consisted of Room L011, Audie L. Murphy VA Hospital, San Antonio, Texas, 78229.

3.0. SCOPE OF WORK.

3.1. The inspection was performed on 30 January 2013 and consisted of a visual inspection to determine the presence of suspect ACBM. Bulk samples of suspect ACBM (materials which possibly contain asbestos, as determined by an accredited EPA AHERA Building Inspector/Consultant) were collected. The visual inspection, bulk sampling, and inspection documentation was performed by Mr. Michael Kauffman, under the overall direction of Ronald M. Bishop, MPH, CIH. Mike Kauffman is a Texas Department of State Health Services (TDSHS) licensed Asbestos Inspector (No. 60-3118) and Lead Inspector. Ron Bishop is a TDSHS licensed Asbestos Consultant (No. 10-5492), Lead Project Designer, and Mold Consultant as well as a Certified Industrial Hygienist, Registered Sanitarian, Diplomat in Environmental Health, Registered Environmental Professional and Environmental Manager, and Green Consultant.

3.2. AEHS, Inc. is a TDSHS Licensed Asbestos Consultant Agency (No.10-0335), PCM Laboratory (No. 30-0295), and Training Provider (No. 00-0439).

3.3. The specific objectives of the survey were to:

- Perform a visual inspection and physical sampling following the Asbestos Hazard Emergency Response Act (AHERA) protocol as a guideline to identify, quantify, and assess accessible friable and non-friable ACBM;
- Collect and analyze bulk samples of suspect material for asbestos content and identification by an American Industrial Hygiene Association Accredited Laboratory that is also licensed by the Texas Department of State Health Services;
- Ensure the technical quality of all work by using the AHERA protocol and a TDSHS licensed consultant and inspector for the inspection; and
- Issue a final report that includes findings, bulk sample locations, confirmed asbestos-containing building materials, and a general cost estimate for removal.

4.0. DESCRIPTION. The primary purpose of the building is Healthcare.

5.0. INVESTIGATIVE METHODS.

5.1. Visual Inspection.

5.1.1. Building materials were inspected and assessed using the methods presented in the federal AHERA regulations (40 CFR, Part 763) as a guideline. The procedures mandated are considered the industry standard and are applied to all surveys performed by AEHS, Inc.

5.1.2. The suspect ACBM within the space consisted of wallboard, float mud, duct mastic, ceiling tile, underlayment, and two types of floor tile.

5.1.3. The other materials observed but were not sampled included Transite® pipes and the debris above the drop down ceiling. Both the pipe and the debris are assumed to be asbestos containing and must be handled as such.

5.2. Bulk Sampling.

5.2.1. Bulk samples of all homogeneous materials from identified functional spaces containing suspect ACBM were collected. A homogeneous material is defined as a surfacing material, thermal system insulation, or miscellaneous material that is uniform in use, color and texture. Examples of homogeneous materials include:

- Pipe insulation produced by the same manufacturer and installed during the same time period;
- Floor or ceiling tile of identical size, color and/or pattern;
- Sprayed-on acoustical ceiling materials located in contiguous areas; and
- Trowelled on plaster of same location of texture.

5.2.2. A functional space is defined as any spatially distinct unit within a building that contains identifiable populations of current or previous building occupants. Examples of functional spaces include:

- Office areas;
- Storage (warehousing) areas; and
- Living quarters.

The functional space concept is helpful in determining the use and occupancy of building areas containing confirmed ACBM. Knowing the types of occupants and their use of an area also may influence the selection of an asbestos management option and/or corrective action. If multiple corrective actions are necessary, the occupancy and use of individual areas may also become important factors when establishing the priority, or ranking, of each corrective action.

5.2.3. Prior to obtaining the samples, all friable suspect material are sprayed with amended (surfactant added) water to minimize fiber release. Small pieces of the suspect material were sampled by cutting off a sufficient quantity of the wetted suspect material in an inconspicuous location and securing the sample in a plastic bag. Samples were extracted from the center of the wetted area. The tool used to collect the suspect sample was then cleaned to ensure no cross-contamination occurred between samples. A plastic bag was used to contain the samples of the suspect material and quickly sealed to prevent the escape of the material or the introduction of ACBM contamination from outside sources.

5.3. Bulk Sample Analysis.

5.3.1. All bulk samples collected during this survey were analyzed by Environmental Hazards Services, Inc.'s Laboratory located in Richmond, Virginia. Environmental Hazards Services laboratory is accredited under the National Institute of Standards and Technology's National Voluntary Laboratory Accreditation Program (NVLAP) and the American Industrial Hygiene Association. Additionally, the laboratory is a TDSHS licensed (No. 30-0188) Asbestos Laboratory (Polarized Light Microscopy). Their address, telephone number, and quality assurance review are depicted on their laboratory reports.

5.3.2. All asbestos samples were analyzed using Polarized Light Microscopy/Dispersion Staining (PLM/DS) techniques in accordance with methodology approved by the U.S. Environmental Protection Agency (EPA), method number 600/R-93/116. The percentage of asbestos present in the samples was determined on the basis of a visual area estimation as set forth in 40 CFR Part 763, Appendix A, Subpart F, Section 1.2 and 1.7.2.4. The lower limit of reliable detection for asbestos using the PLM/DS method is approximately 1% by volume.

5.3.2.1. The Environmental Protection Agency considers materials with greater than one percent (>1%) asbestos content to be asbestos containing. Therefore, when asbestos containing building material (ACBM) appear in this report, it should be interpreted as meaning the sample(s) taken contained greater than (>1%) asbestos and is considered a regulated material. However, material that contains one percent (1 %) or less asbestos is not considered to be asbestos containing material. If the results of sampling indicate that the asbestos containing material is a trace or up to 10% asbestos, the results must be verified by polarized light microscopy point counting or presumed to be asbestos. For this survey, AEHS personnel used their experience with similar materials.

5.3.2.2. When "No Asbestos Detected" (NAD) appears in this report, it should be interpreted as meaning no asbestos was observed in the sample material above the reliable limit of detection for the PLM/DS method.

5.3.2.3. The Texas Department of State Health Services requires a minimum of three samples to be collected from each homogeneous area. In order for a material to be considered negative, all samples must be negative. On the other hand, if one of the three samples is positive, then the material is considered positive.

6.0. RESULTS OF INSPECTION.

6.1. Analytical Results. The analytical results from the inspection and chain of custody are at Appendix A. A total of twenty-seven (27) samples were collected which resulted in thirty-one (31) analyses due to layering.

6.2. Summary Positive Asbestos Containing Building Materials. None. The laboratory results indicated "NAD – No Asbestos Detected" in all samples.

6.3. Photographs. Photographs are located at Appendix B.

6.3. Site Diagram. The site diagram is located at Appendix C.

7.0. ASSESSMENT.

7.1. Friable Asbestos Material. Debris on top of the dropped ceiling.

7.2. Non-Friable Materials. Transite® pipe

8.0. RECOMMENDATIONS.

8.1. Maintain a copy of this report with the project files.

8.2. HEPA vacuum the top of the dropped ceiling prior to renovation.

8.3. Do not disturb the Transite®.

9.0. DISCLAIMER.

This report is given for the sole benefit of the aforementioned client (s). The client expressly confirms their understanding that the conclusions/recommendations stated in this report are limited to and based solely upon the scope of the assignment, and samples and field measurements taken. In addition, the client understands that any field observations contained herein reflect the conditions present on the date and time of inspection. No representations or warranties are made or may be implied as to the validity of their applicability to any other days or times.



Ronald M. Bishop, MPH, CIH
ABIH Certification No. 814
Asbestos Consultant
TDSHS License No. 10-5492
6 February 2013

Appendix A

Asbestos Lab Results



Environmental Hazards Services, L.L.C.

7469 Whitepine Rd

Richmond, VA 23237

Telephone: 800.347.4010

Asbestos Bulk Analysis Report

Report Number: 13-01-03122

Client: AEHS
4402 Center Gate
San Antonio, TX 78217

Received Date: 01/31/2013

Analyzed Date: 02/04/2013

Reported Date: 02/05/2013

Project/Test Address: VA Hospital; (Rm L011); 7400 Merton Minter; San Antonio, Texas

Client Number:

45-5371

Fax Number:

210-656-8499

Laboratory Results

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-01-03122-001	WB-A1		White Chalky; Homogeneous	NAD	1% Cellulose 2% Fibrous Glass 97% Non-Fibrous
13-01-03122-002	WB-A2		White Chalky; Homogeneous	NAD	1% Cellulose 2% Fibrous Glass 97% Non-Fibrous
13-01-03122-003	WB-A3		White Chalky; Homogeneous	NAD	1% Cellulose 2% Fibrous Glass 97% Non-Fibrous
13-01-03122-004	WB-A4		White Chalky; Homogeneous	NAD	1% Cellulose 3% Fibrous Glass 96% Non-Fibrous
13-01-03122-005	WB-A5		White Chalky; Homogeneous	NAD	1% Cellulose 2% Fibrous Glass 97% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 45-5371

Report Number: 13-01-03122

Project/Test Address: VA Hospital; (Rm L011); 7400 Merton
Minter; San Antonio, Texas

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-01-03122-006	WB-A6		White Chalky; Homogeneous	NAD	1% Cellulose 3% Fibrous Glass 96% Non-Fibrous
13-01-03122-007	FM-A7		White Chalky; Homogeneous	NAD	100% Non-Fibrous
13-01-03122-008	FM-A8		White Chalky; Homogeneous	NAD	100% Non-Fibrous
13-01-03122-009	FM-A9		White Chalky; Homogeneous	NAD	1% Cellulose 99% Non-Fibrous
13-01-03122-010	FM-A10		White Chalky; Homogeneous	NAD	100% Non-Fibrous
13-01-03122-011	FM-A11		White Chalky; Homogeneous	NAD	100% Non-Fibrous
13-01-03122-012	FM-A12		White Chalky; Brown Fibrous; Inhomogeneous	NAD	85% Cellulose 15% Non-Fibrous
13-01-03122-013	DM-A13		White Brittle; Homogeneous	NAD	1% Fibrous Glass 3% Wollastonite 96% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 45-5371
 Project/Test Address: VA Hospital; (Rm L011); 7400 Merton
 Minter; San Antonio, Texas

Report Number: 13-01-03122

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-01-03122-014	DM-A14		White Brittle; Orange Fibrous; Inhomogeneous	NAD	2% Cellulose 3% Fibrous Glass 2% Wollastonite 93% Non-Fibrous
13-01-03122-015	DM-A15		White Brittle; Homogeneous	NAD	3% Wollastonite 97% Non-Fibrous
13-01-03122-016	CT-A16		Gray/White Fibrous; Inhomogeneous	NAD	55% Cellulose 35% Fibrous Glass 10% Non-Fibrous
13-01-03122-017	CT-A17		Gray/White Fibrous; Inhomogeneous	NAD	55% Cellulose 35% Fibrous Glass 10% Non-Fibrous
13-01-03122-018	CT-A18		Gray/White Fibrous; Inhomogeneous	NAD	55% Cellulose 35% Fibrous Glass 10% Non-Fibrous
13-01-03122-019	UL-A19		Green Vinyl-Like; Homogeneous	NAD	100% Non-Fibrous
13-01-03122-020	UL-A20		Green Vinyl-Like; Homogeneous	NAD	1% Cellulose 99% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 45-5371

Report Number: 13-01-03122

Project/Test Address: VA Hospital; (Rm L011); 7400 Merton
Minter; San Antonio, Texas

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-01-03122-021	UL-A21		Green Vinyl-Like; Homogeneous	NAD	100% Non-Fibrous
13-01-03122-022A	FT1-A22	Tile	Beige Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-01-03122-022B	FT1-A22	Mastic	Yellow Adhesive; Homogeneous	NAD	2% Cellulose 1% Synthetic 97% Non-Fibrous
13-01-03122-023A	FT1-A23	Tile	Beige Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-01-03122-023B	FT1-A23	Mastic	Yellow Adhesive; Homogeneous	NAD	2% Cellulose 1% Synthetic 97% Non-Fibrous
13-01-03122-024A	FT1-A24	Tile	Beige Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-01-03122-024B	FT1-A24	Mastic	Yellow Adhesive; Homogeneous	NAD	1% Cellulose 1% Synthetic 98% Non-Fibrous
13-01-03122-025	FT2-A25		White Vinyl; Homogeneous	NAD	100% Non-Fibrous

Environmental Hazards Services, L.L.C

Client Number: 45-5371
Project/Test Address: VA Hospital; (Rm L011); 7400 Merton
Minter; San Antonio, Texas

Report Number: 13-01-03122

Lab Sample Number	Client Sample Number	Layer Type	Lab Gross Description	Asbestos	Other Materials
13-01-03122-026	FT2-A26		White Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-01-03122-027A	FT2-A27	Tile	White Vinyl; Homogeneous	NAD	100% Non-Fibrous
13-01-03122-027B	FT2-A27	Other *	Yellow Adhesive; Gray Granular; Inhomogeneous	NAD	2% Cellulose 98% Non-Fibrous

* Mastic/Leveling Compound

QC Sample: 63-NY-33-3478
QC Blank: SRM 1866 Fiberglass
Reporting Limit: 1% Asbestos
Method: EPA Method 600/R-93/116, EPA Method 600/M4-82-020
Analyst: Kathy Sizemore

Reviewed By Authorized Signatory:



Tasha Eaddy
QA/QC Clerk

The condition of the samples analyzed was acceptable upon receipt per laboratory protocol unless otherwise noted on this report. Each distinct component in an inhomogeneous sample was analyzed separately and reported as a composite. Results represent the analysis of samples submitted by the client. Sample location, description, area, volume, etc., was provided by the client. This report cannot be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced except in full, without the written consent of the Environmental Hazards Service, L.L.C. California Certification #2319 NY ELAP #11714 NVLAP #101882-0. All information concerning sampling location, date, and time can be found on Chain-of-Custody. Environmental Hazards Services, L.L.C. does not perform any sample collection.

Environmental Hazards Services, L.L.C. recommends reanalysis by point count (for more accurate quantification) or Transmission Electron Microscopy (TEM), (for enhanced detection capabilities) for materials regulated by EPA NESHAP (National Emission Standards for Hazardous Air Pollutants) and found to contain less than ten percent (<10%) asbestos by polarized light microscopy (PLM). Both services are available for an additional fee.

400 Point Count Analysis, where noted, performed per EPA Method 600/R-93/116 with a Reporting Limit of 0.25%.

* All California samples analyzed by Polarized Light Microscopy, EPA Method 600/M4-82-020, Dec. 1982.

LEGEND: NAD = no asbestos detected

****1st Positive Stop / Point Count Any Trace Amounts****



Environmental Hazards Services, LLC
www.leadlab.com 7469 Whitepine Rd
(800)347-4010 Richmond, VA
(804)275-4907 (fax) 23237

Asbestos Chain-of-Custody

~ For Lab Use Only ~

27 PM

1083

Company Name: AEHS

Phone: (210) 656-9300

Fax: (210) 656-8499

E-mail: labs@aehs-sa.com

Address: 4402 Center Gate

City/State/Zip: San Antonio, Texas 78217

Acct. Number: 45-5371

Project Name / Testing Address: VA HOSPITAL (Rm 1011), 7400 MEADOW LANE, City/State (Required): San Antonio, Texas

Collected by: Mike Kauffman

Purchase Order Number

Turn Around Times : If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.

1 - Day

2 - Day

3 - Day

Same Day (Must Call Ahead)

Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS						AIR			COMMENTS	
			PM Point Count 400	PM Point Count 1000	PM NY Protocol	PCM	TEM Certified (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)		Total Time (minutes)
1	WB-A1	1/30/13	✓								13-01-03122		WALLBOARD
2	WB-A2		✓										
3	WB-A3		✓										
4	WB-A4		✓										
5	WB-A5		✓										
6	WB-A6		✓										
7	FM-A7		✓										
8	FM-A8		✓										
9	FM-A9		✓										
10	FM-A10		✓										
Released by: Mike Kauffman			Signature:										Date/Time: 1/30/2013 16:30
Received by: T. J. J.			Signature:										Date/Time: 1/31/13

****1st Positive Stop / Point Count Any Trace Amounts****



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(804)275-4907 (fax) 23237

Asbestos Chain-of-Custody

2013

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Company Name: **AEHS** Address: **4402 Center Gate** City/State/Zip: **San Antonio, Texas 78217**
Phone: **(210) 656-9300** Fax: **(210) 656-8499** E-mail: **labs@aehs-sa.com** Acct. Number: **45-5371**
Project Name / Testing Address: **VA HOSPITAL (RM # 101), 7400 MEYER MINTEN** City/State (Required): **San Antonio, Texas**
Collected by: **Mike Kauffman** Purchase Order Number: _____

Turn Around Times : *If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.*

1 - Day 2 - Day 3 - Day Same Day (Must Call Ahead) Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS						AIR				Volume (Total Liters)	COMMENTS	
			RM	RM Point Count 400	RM Point Count 1000	RM NY Protocol	PCM	TEM Certified (Bulk)	TEM AHERA (Air)	Time On	Time Off	Flow Rate (L/min)			Total Time (minutes)
1	FM-A11	1/30/13	✓												Float MUD
2	FM-A12		✓												↓ DUCT MASTIC
3	DM-A13		✓												↓ CEILING TILE
4	DM-A14		✓												↓ UNDERLAYMENT
5	DM-A15		✓												
6	CT-A16		✓												
7	CT-A17		✓												
8	CT-A18		✓												
9	VL-A19		✓												
10	VL-A20		✓												

Released by: **Mike Kauffman** Signature: *[Signature]* Date/Time: **1/30/2013 16:30**
Received by: **Tracy** Signature: *[Signature]* Date/Time: **1/31/13**

****1st Positive Stop / Point Count Any Trace Amounts****



EHS Laboratories™

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Asbestos Chain-of-Custody

~ For Lab Use Only ~

Company Name: **AEHS** Address: **4402 Center Gate** City/State/Zip: **San Antonio, Texas 78217**
 Phone: **210, 656-9300** Fax: **(210) 656-8499** E-mail: **labs@aehs-sa.com** Acct. Number: **45-5371**
 Project Name / Testing Address: **VA Hospital (Bldg # 2011), 7400 MERTON MINSTER** City/State (Required): **San Antonio, Texas**
 Collected by: **Mike Kauffman** Purchase Order Number: _____

Turn Around Times: ☒ If no TAT is specified, sample(s) will be processed and charged as 3-day TAT.

1 - Day 2 - Day 3 - Day Same Day (Must Call Ahead) Weekend (Must Call Ahead)

No.	Client Sample ID	Date Collected	ASBESTOS							AIR					COMMENTS
			PM	PM Point Count 400	PM Point Count 1000	PM NY Protocol	PCM	TEM Certified (Bulk)	TEM/ASHERA (Air)	Time On	Time Off	Flow Rate (L/min)	Total Time (minutes)	Volume (Total Liters)	
1	UL-A21	1/30/13	✓											UNDERCLAYMENT	
2	FT1-A22	→	✓											12" WHITE FLOOR TILE	
3	FT1-A23		✓												
4	FT1-A24		✓												
5	FT2-A25		✓												12" GRAY FLOOR TILE
6	FT2-A26	→	✓												
7	FT2-A27		✓												
8			✓												
9			✓												
10			✓												
Released by: Mike Kauffman			Signature: 							Date/Time: 1/30/2013 16:30					
Received by: 			Signature: 							Date/Time: 1/31/13					

Appendix B

Photographs

**Audie L. Murphy VA Hospital
7400 Merton Minter
San Antonio, Texas 78229**



1. Audie L. Murphy VA Hospital



2. Room L011



3. Wallboard – NAD
Float Mud – NAD



4. 12" White Floor Tile with
Brown Specks – NAD



5. 12" Gray Floor Tile with
Blue Specks – NAD



6. Ceiling Tile – NAD



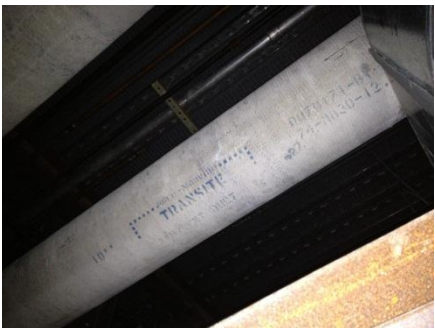
7. Duct Mastic – NAD



8. Duct Mastic – NAD



9. Duct Mastic – NAD



10. Transite Pipes



11. Above Drop Down Ceiling

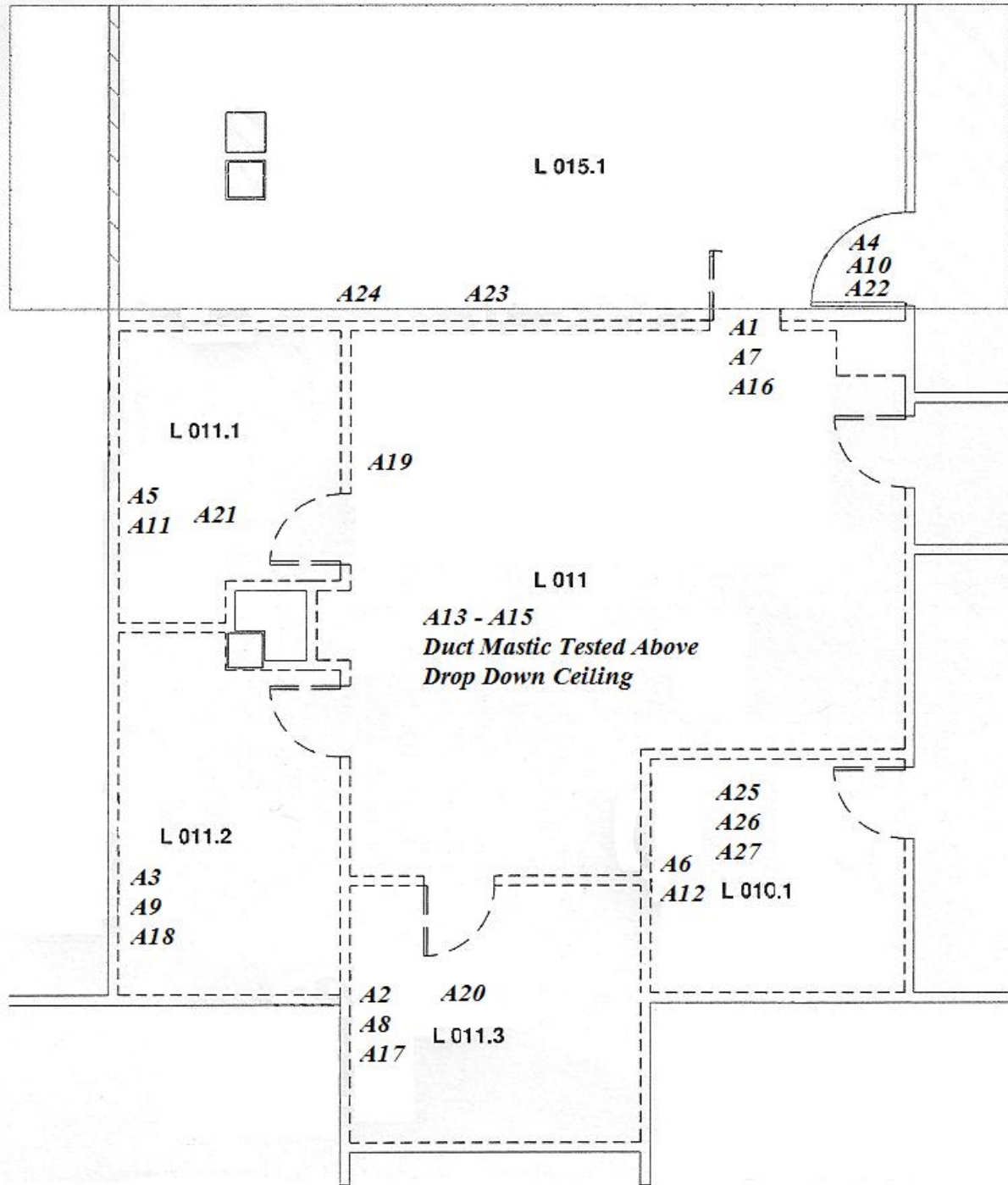


12. Debris Above Ceiling

Appendix C

Site Diagram

Audie L. Murphy VA Hospital Room L011 Site Diagram



- A1 – A6: Wallboard
- A7 – A12: Float Mud
- A13 – A15: Duct Mastic
- A16 – A18: Ceiling Tile
- A19 – A21: Underlayment
- A22 – A24: 12" White Floor Tile
- A25 – A27: 12" Gray Floor Tile