

# ASBESTOS SURVEY REPORT

**PTB 198-003**

**Asbestos Survey for Building Demolition (I-80)**

**521 S. Joliet Street, Joliet, Illinois**

**Region One/District One**

*Prepared for:*



**Illinois Department of Transportation  
District 1**

*Submitted to:*

**WSP USA  
30 N. LaSalle Street  
Chicago, IL, 60602**

*Prepared by:*



April 9, 2025



April 9, 2025


David Skaleski, P.E.  
Project Manager  
WSP USA  
30 N. LaSalle Street, Suite 4200  
Chicago, Illinois 60602


Asbestos Survey Report  
PTB 198-003  
FAI-80 (I-80) over Des Plaines River Bridge  
Job N. D-91-204-19  
521 S. Joliet Street, Joliet, IL  
Parcel No. 1P10158 #2


Dear Mr. Skaleski:

GSG Consultants Inc has conducted an Asbestos Survey for the above referenced property in accordance with our contractual agreement. The report provides a description of the site, survey methodology, analytical results, abatement cost estimates, and recommendations.

Should you have any questions or require additional information, please call us at 630-994-2600.

Prepared by:  April 9, 2025  
Erin Pahomi  
Asbestos Building Inspector  
Inspector License No: 100-20674  
Date

Reviewed By:  April 9, 2025  
Thaddeus Cagney, LPG  
Senior Project Manager  
Date

QA Manager:  April 9, 2025  
Ala E Sassila, Ph.D., PE  
Date

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**ACRONYMS AND ABBREVIATIONS**

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<b>ACM</b>	<b>Asbestos-Containing Materials</b>
<b>ACBM</b>	<b>Asbestos-Containing Building Materials</b>
<b>AHERA</b>	<b>Asbestos Hazard Emergency Response Act</b>
<b>CFR</b>	<b>Code of Federal Regulations</b>
<b>COC</b>	<b>Chain of Custody</b>
<b>GSG</b>	<b>GSG Consultants, Inc.</b>
<b>IDOT</b>	<b>Illinois Department of Transportation</b>
<b>IDPH</b>	<b>Illinois Department of Public Health</b>
<b>NESHAP</b>	<b>National Emissions Standards for Hazardous Air Pollutant</b>
<b>NVLAP</b>	<b>National Voluntary Laboratory Accreditation Program</b>
<b>OSHA</b>	<b>Occupational Safety and Health Administration</b>
<b>PLM</b>	<b>Polarized Light Microscopy</b>
<b>RACM</b>	<b>Regulated Asbestos-Containing Material</b>
<b>TSI</b>	<b>Thermal System Insulation</b>
<b>USEPA</b>	<b>United States Environmental Protection Agency</b>



## SURVEY SUMMARY

SITE INFORMATION			
FAP Route:	FAI-80 (I-80)	Address:	521 S. Joliet Street
County:	Will	City, State, Zip	Joliet, IL 60433
Section:	N/A	Property Type:	Multi-Family Residential
IDOT Job No.	D-91-204-19	Construction Date:	1921
Parcel No.	1P10158 #2	Building Size:	2,600 SF

ASBESTOS CONTAINING MATERIALS	
Survey Date:	March 25, 2025
Weather Conditions:	45°F, Cloudy
By Whom:	
Firm:	GSG Consultants, Inc
Inspector:	Tim Walsh
IDPH License No.	100-08900
Results:	
	Number of Material Types Sampled <b><u>17</u></b>
	Number of Samples Collected: <b><u>51</u></b>
	Number of Materials Tested Positive: <b><u>3</u></b>
	Was Friable ACM Found? <b><u>No</u></b>
	Were Roofing Materials Sampled? <b><u>Yes</u></b>
	Are There Unique State or Local Requirements? <b><u>No</u></b>
Laboratory Used:	Name: Sterling Labs Address: 2242 W. Harrison Street, Chicago, Illinois NVLAP: 101202-0
Building Access Limitations:	None

**ASBESTOS-CONTAINING MATERIALS (ACM) SURVEY RESULTS:**
**Parcel No. 1P10158 #2**
**Residential Property**
**521 S. Joliet Street, Joliet, Illinois**

**Table 1** provides a list of the homogeneous building material types that were sampled as part of the asbestos survey and the laboratory testing results.

HA No.	Material Description	Location	Type <sup>(1)</sup>	Condition	Friable	% Asbestos*	# of Samples	Estimated Quantity <sup>(2)</sup>
1	Drywall System	Throughout	Misc.	Good	No	ND	3	N/A
2	Window Caulk	Throughout	Misc.	Good	No	ND	3	N/A
3	Window Caulk	Porch	Misc.	Good	No	ND	3	N/A
4	9"x9" Red Floor Tile	Basement Stairs	Misc.	Good	No	Chrysotile 5-10%	3	50 SF
5	9"x9" Red Floor Tile Mastic	Basement Stairs	Misc.	Good	No	Chrysotile 1-5%	3	50 SF
6	Plaster	Throughout	Surf.	Good	No	ND	3	N/A
7	Insulation	Attic	TSI	Good	No	ND	3	N/A
8	Chimney Brick	Attic	Misc.	Good	No	ND	3	N/A
9	Red Shingle	Roof	Misc.	Good	No	ND	3	N/A
10	Black Shingle	Roof	Misc.	Good	No	ND	3	N/A
11	Brown Shingle	Roof	Misc.	Good	No	ND	3	N/A
12	Felt Paper	Roof	Misc.	Good	No	ND	3	N/A
13	Roof Flashing	Roof	Misc.	Good	No	Chrysotile 1-5%	3	10 LF
14	Shingle	Garage Roof	Misc.	Good	No	ND	3	N/A
15	Felt Paper	Garage Roof	Misc.	Good	No	ND	3	N/A
16	Window Glazing	Front & Back Porch	Misc.	Good	No	ND	3	N/A
17	White Window Caulk	Exterior	Misc.	Good	No	ND	3	N/A
Total Estimated Quantity of ACM								100 SF/ 10 LF

(1) TSI= Thermal System Insulation, Surf. = Surfacing Material, and Misc. = Miscellaneous.

(2) Quantities are estimates only, all quantities must be field verified.

## 1.0 INTRODUCTION

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GSG Consultants Inc. (GSG) conducted an Asbestos Survey at Parcel No. 1P10158 #2 located at 521 S. Joliet Street in Joliet, Illinois. The site is improved with a two-story, multi-family house that is approximately 2,600 square feet in size with an unfinished basement, attic, detached garage, and an asphalt shingled roof. The interior walls and ceilings are drywall and plaster, the floors are floor tile and wood, and the building exterior is masonry.

GSG conducted the asbestos survey to satisfy requirements of the United States Environmental Protection Agency (USEPA) regulations under 40 CFR Part 61, Subpart M of the National Emission Standards for Hazardous Air Pollutants (NESHAP) and applicable state and local regulations. This was accomplished by conducting a visual inspection of the structures to be impacted by the planned demolition and collecting samples of suspect ACM based on these observations.

The results, findings, conclusions, and recommendations expressed in this report are based on conditions observed during GSG's survey of the project area. The information contained in this report represents conditions at the time of the survey and may not accurately represent conditions at a later date. The conclusions in this report are based on conditions observed in accessible areas of the project area. The possibility exists that suspect hazardous building materials or conditions may exist within wall cavities, voids, or other areas hidden from view which were not observed and cannot be ruled out. Any additional potential hazardous building materials encountered that will be disturbed during the demolition activities and that differ from the materials assessed during this survey, were hidden from view, or were located in an area not accessible will require further sampling and analysis prior to disturbance. The estimated quantities provided herein should be considered approximate and are accurate to the extent allowable under the terms and conditions of our contract. This report has been prepared with generally accepted industry practices and procedures. No other warranty, either expressed or implied, is made.

The investigation did not include access or inspection of confined spaces, underground piping, conduits, and building footings, if any. Materials associated with electrical components and energized equipment were not safely accessible and were not sampled.

## 2.0 SURVEY METHODOLOGY

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The asbestos survey was conducted in compliance with the United States Environmental Protection Agency (USEPA) National Emissions Standards for Hazardous Air Pollutants (NESHAPs), applicable State of Illinois and local asbestos regulations. NESHAP regulations defined regulated asbestos-containing material (RACM) as a friable asbestos material, a Category I non-friable ACM that has become friable, a Category I non-friable ACM that will be or has been subjected to sanding, grinding, cutting or abrading, or Category II non-friable ACM that has a high probability of becoming or has become crumbled, pulverized, or reduced to powder by the forces acting on it during demolition or renovation. The materials were then classified with regard to whether they are friable or non-friable and classified as Class I or Class II non-friable materials, using the following definitions.

- **Friable:** NESHAP defines a friable ACM as any material containing more than one percent (1%) asbestos, which, when dry, may be crumbled, pulverized, or reduced to powder by hand pressure, and includes previously non-friable material where previously non-friable material becomes damaged to the extent that it may be crumbled, pulverized, or reduced to powder by hand pressure.
- **Category I Non-friable ACM:** NESHAP defines a Category I non-friable ACM as packing, gaskets, resilient floor covering (except vinyl sheet flooring products that are considered friable), and asphalt roofing products that contain more than one (1) percent asbestos as determined using the method specified in **Appendix A**, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy
- **Category II Non-friable ACM:** means any material, excluding Category I non-friable ACM, containing more than 1 percent asbestos as determined using the methods specified in **Appendix A**, Subpart F, 40 CFR Part 763, Section 1, Polarized Light Microscopy that, when dry, cannot be crumbled, pulverized, or reduced to powder by hand pressure.

The survey consisted of three major activities: visual inspection, sampling, and quantification of building materials. A brief description of each of the above elements is provided in the following sections.

### 2.1 Visual Inspection

The inspector conducted an initial building walkthrough to determine the presence and condition of suspect asbestos-containing materials (ACMs) that were accessible and/or exposed. The survey consisted of accessing accessible areas of the buildings to identify and quantify regulated RACM. The inspector identified homogeneous areas (HA) comprised of building materials that appear similar throughout in terms of color and texture and assumed date of installation. Materials that were similar in general appearance were grouped into homogeneous sampling areas. Following the EPA inspection protocol, each identified suspect homogeneous material was placed in one of the following EPA classifications:

1. Surfacing Materials (spray or trowel applied to building members)
2. Thermal System Insulation (materials generally applied to various mechanical systems)
3. Miscellaneous Materials (any materials which do not fit either of the above categories)



## 2.2 Sampling procedures

The asbestos inspector collected a representative number of samples from each HA. Building materials identified as concrete (not including cement panels or pipe and soft concrete), glass (including fiberglass), wood, masonry, metal, and plastic are not considered suspect ACM and were not sampled. The survey included destructive, intrusive, and/or exploratory testing unless specifically prohibited by IDOT. Destructive sampling is performed to identify materials that are concealed or obstructed. Concealed or obstructed areas include but are not limited to wall cavities, pipe chases, spaces above fixed ceilings, materials located under carpeting or subfloors, and ceramic tile grout/adhesive. Bulk samples of suspect ACM were collected in general accordance with Asbestos Hazard Emergency Response Act (AHERA) sampling protocols, based on the results of the visual observation. Random samples of suspect materials were collected of each HA.

A total of 51 bulk samples of suspect ACM, three (3) samples for each of the 17 homogeneous areas, were collected from various homogeneous areas of the buildings. Bulk samples were collected from the following materials/homogeneous area(s):

- Drywall System
- Interior Window Caulk
- Porch Window Caulk
- 9"x9" Red Floor Tile
- 9"x9" Red Floor Tile Mastic
- Plaster
- Attic Insulation
- Chimney Brick
- Red Roof Shingle
- Black Roof Shingle
- Brown Roof Shingle
- Roof Felt Paper
- Roof Flashing
- Garage Shingle
- Garage Felt Paper
- Window Glazing
- Exterior White Window Caulk

**Exhibit 1, Suspect ACM Sample Locations**, shows the approximate locations of the suspect ACM collected during the field survey. Samples were placed in new sealable containers and labeled with unique sample numbers using an indelible marker. All non-disposable sampling equipment was wet-wiped and cleaned before and after each use. Bulk material samples were collected in 4-milliliter plastic bags, and tightly sealed for transport to the laboratory. Bulk samples were submitted under a chain-of-custody (COC) protocol to Sterling Labs in Chicago, Illinois.

### **2.3 Quantification**

The inspector estimated the quantities of accessible and/or exposed materials that were suspected of containing asbestos using a measuring wheel and/or visual estimation. Actual quantities may differ between visually estimated values and physical measurements. The asbestos abatement contractor is responsible for verifying reported quantities of ACM.

## 3.0 ANALYTICAL RESULTS

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### 3.1 Testing Procedures

Sterling Lab analyzed the bulk samples using polarized light microscopy (PLM) method with dispersion staining techniques per USEPA methodology “Method for the Determination of Asbestos in Bulk Building Materials, EPA/600/R-93/116, July 1993”. This is a standard method of analysis in optical mineralogy and the currently accepted method for the determination of asbestos in bulk samples. A suspect material is immersed in a solution of known refractive index and subjected to illumination by polarized light. The characteristic color displays which enable mineral identification. It should be noted that some ACM may not be accurately identified and/or quantified by PLM. The percentage of asbestos applicable was determined by microscopic visual estimation. Sterling analyzed each layer of each sample, which means if multiple layers are detected in the same sample (i.e., roof field), each layer was analyzed, and a separate result was provided for each layer. If any of the sample results from a homogeneous group had a positive result, that homogeneous group was considered to be ACM. Sterling Labs is accredited under the National Voluntary Laboratory Accreditation Program (NVLAP Accreditation Number 101202-0). Refer to **Appendix D** for laboratory accreditations.

### 3.2 Findings

GSG identified a total of 17 HAs from which 51 samples were collected and analyzed. Results are summarized in **Table 1** and include a description of each material, location, material type, test results, and estimated quantity. Materials indicated to have a “negative” result were confirmed by PLM analysis to be non-asbestos-containing. The laboratory results are provided in **Appendix A** and reference photographs are included in **Appendix B**. The USEPA defines ACM as a material containing greater than 1% asbestos. Materials containing less than 1% asbestos are not regulated by the USEPA or the State of Illinois, but their disturbance is regulated by OSHA.

The following **HAs were confirmed** to be **ACMs**:

- 9”x9” Red Floor Tile
- 9”x9” Red Floor Tile Mastic
- Roof Flashing

The laboratory reported that asbestos was Not Detected (ND) in the remaining bulk samples collected by GSG. **Exhibit 2, ACM Locations**, shows the approximate locations of ACMs present in the building.

## 4.0 RECOMMENDATIONS

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GSG understands that the residential property will be demolished as part of the I-80 improvement project. ACMs identified at the site must be removed/managed in accordance with all federal, state, and local regulations governing asbestos. ACMs abatement and management are subject to the US Environmental Protection Agency (USEPA), the Occupational and Health Administration (OSHA), Illinois Department of Public Health (IDPH), the Illinois Environmental Protection Agency (Illinois EPA), and other applicable Federal, State, and Local Government regulations. The following regulations governing asbestos removal and disposal:

1. U.S. Environmental Protection Agency Regional National Emissions Standards for Hazardous Air Pollutants (NESHAP) (40 CFR Part 61 Subpart A and M).
2. U.S. Department of Transportation "Hazardous Substances Final Rule" 49 CFR 171 and 172, November 21, 1986, February 17, 1987.
3. U.S. Department of Labor Occupational Safety and Health Administration (OSHA) Asbestos Regulations (Code of Federal Regulations Title 29, Part 1910, Section 1910.1001 and Part 1926, Section 1926.1101).
4. State of Illinois, Commercial and Public Building Asbestos Abatement Act. Illinois Department of Public Health, Rules for Asbestos Abatement for Public and Private Schools and Commercial and Public Buildings in Illinois (77 IL Admin. Code 855).

All friable asbestos-containing building materials (ACBMs) identified shall be removed from any building(s) or other structures before demolition. Non-friable ACMs may be left in place, unless during demolition, the ACMs may become friable. If other suspect materials not referenced in this survey report, within or on the outside of the buildings, are identified, not listed in **Table 1**, such materials shall be assumed ACMs until the materials are inspected by a licensed asbestos inspector, sampled, and submitted for laboratory analysis. As the floor tile identified as asbestos containing is a Category I non-friable material which is not likely to become friable during demolition, it does not need to be removed prior to demolition.

GSG recommends the preparation of an asbestos abatement project design before any demolition. An asbestos abatement design plan and specifications should include information regarding the location of containments and barriers, type of sealant, and air sampling requirements and clearance during the asbestos abatement activities. The asbestos design plan and specifications shall be prepared and signed by an IDPH licensed asbestos project designer following Illinois regulations. Before starting any abatement activities, an Asbestos Abatement notification is required for all asbestos projects and must be applied for at least ten (10) working days before the start of the project. A building demolition notification is required for all demolition projects and must be applied for at least ten (10) working days before the start of the project.

Abatement and Emergency Response shall be conducted only by IDPH licensed asbestos abatement contractor(s) under the supervision of a licensed asbestos project manager in accordance with all applicable federal, state, and local regulations. Workers who abate or manage asbestos must receive the proper training and licensing. OSHA prescribes required personnel monitoring including air monitoring and medical monitoring (ref 29 CFR 1926.1101). Personnel protective equipment and procedures are also required.

All asbestos waste generated from the required pre-demolition removal activities during the project must be wetted before it is double bagged in 6-millimeter plastic bags and enclosed in a plastic, leak-tight container with a lid and proper labeling. Discharge no visible emissions to the outside air during the collection, processing, packaging, or transporting of any asbestos-containing waste material. Asbestos waste is a “special waste” in Illinois. Asbestos-containing waste can only be disposed of in Subtitle D landfills that are designated to receive asbestos waste.

## 5.0 LIMITATIONS

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This report has been prepared for the exclusive use of the Illinois Department of Transportation (IDOT) and its Design Section Engineer consultant. GSG warrants that the investigations and methodology reflect our best efforts based upon the prevailing standard of care in the environmental field. This assessment was limited to those materials which were readily visible and with limited demolition and removal of building components. Additional suspect materials may be located behind walls and ceilings. The survey is subject to the following limitations.


- The investigation did not include sampling on any system which may present a hazard to the inspection team such as energized electrical systems or within confined spaces
- Materials associated with electrical components and energized equipment were not safely accessible and were not sampled.
- Estimated quantities of the ACMs are based on observations during the field survey and additional materials may be concealed or were not accessible. Therefore, all estimated quantities shall be field verified by the abatement contractor.

6.0 CERTIFICATION

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The undersigned hereby affirm that the conditions described herein are accurate to the best of our knowledge and belief and are subject to the limitations inherent in the investigative techniques used and any expressed limitations of this survey. Applicable licensing to perform the described survey activities was valid at the time of performance of services in accordance with applicable federal, state and local laws, rules, and regulations.

Inspection Performed By:

<u>Tim Walsh</u>	<u>100-08900</u>
Asbestos Inspector's Name	IDPH License Number
<u></u>	<u>4.8.2025</u>
Asbestos Inspector's Signature	Date

## EXHIBITS

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<b>Exhibit 1</b>	<b>Suspect ACM Sample Location Plans</b>
<b>Exhibit 2</b>	<b>Asbestos-Containing Materials Location Plan</b>

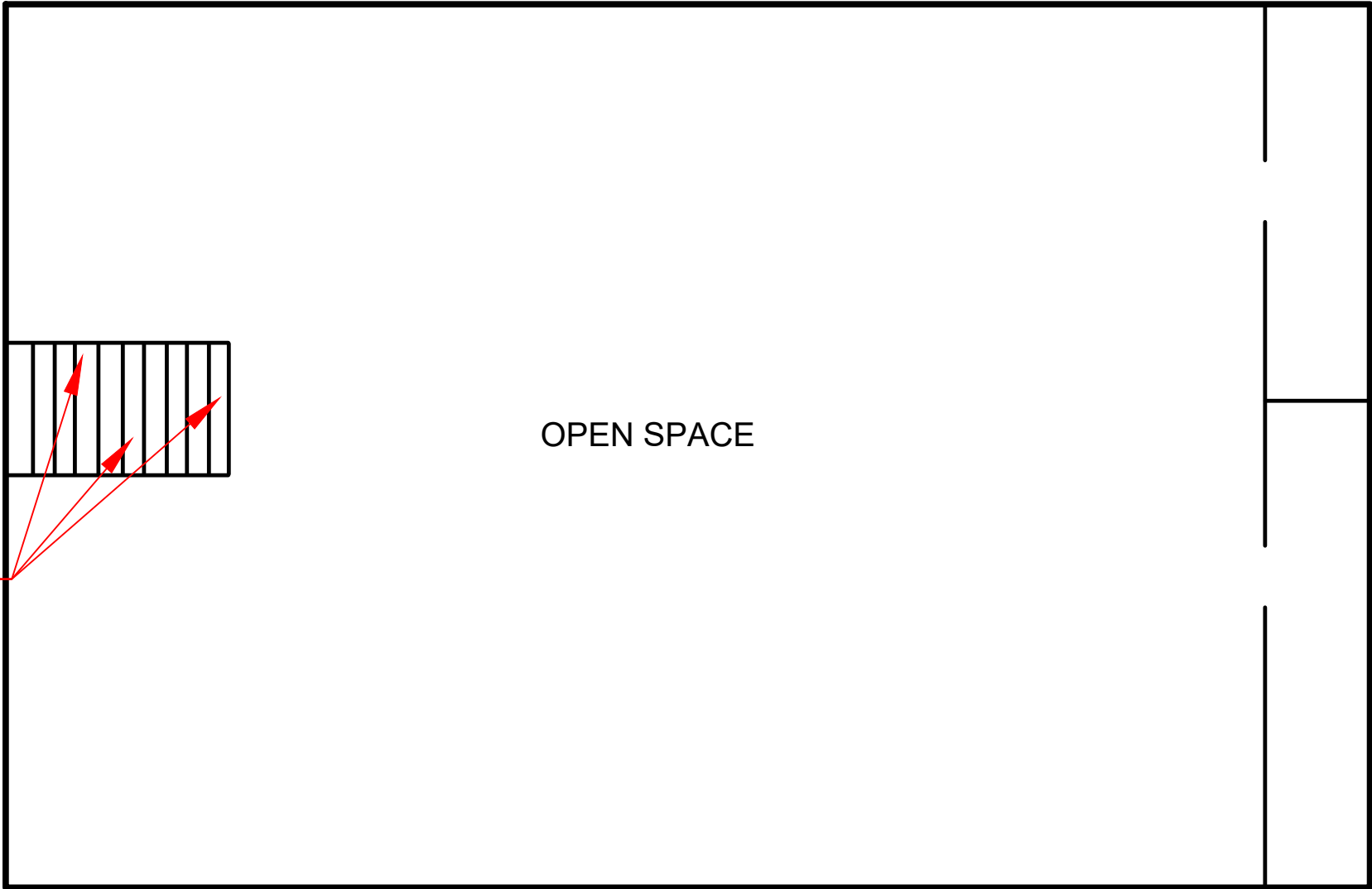


## EXHIBIT 1

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### **SL-1, SL-2, SL-3, and SL-4 Suspect ACM Sample Location Plans**

TW032525-10,11,12,13,14,15



BASEMENT  
SCALE = N.T.S.



LEGEND

SUSPECT ACM SAMPLE LOCATIONS: TW032525-XX  
BATCH NUMBER: 374266  
RED SAMPLES TESTED POSITIVE FOR ASBESTOS

SUSPECT ASBESTOS-CONTAINING MATERIALS SAMPLE LOCATION PLAN

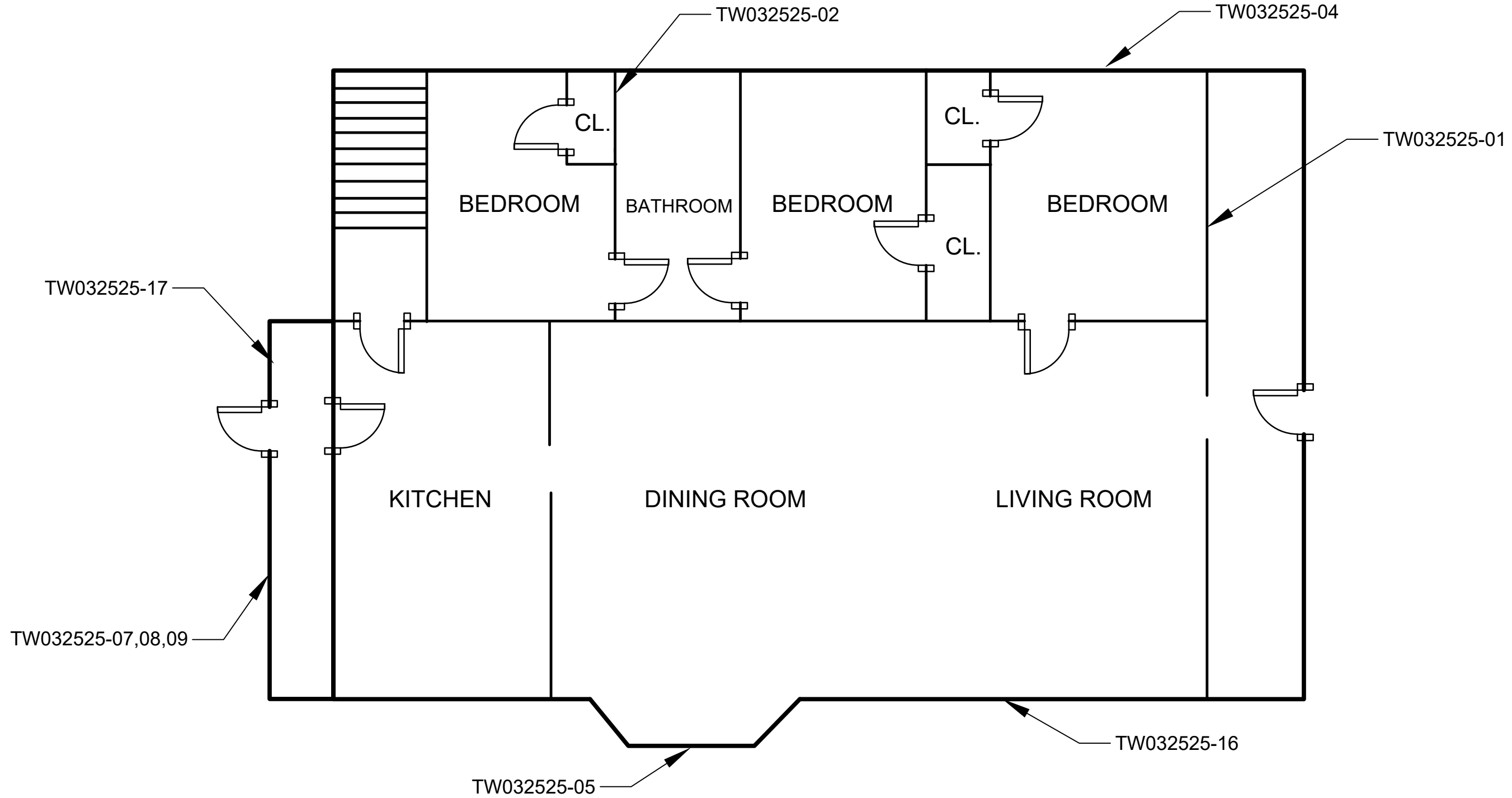
ASBESTOS SURVEY FOR BUILDING DEMOLITION (I-80)  
521 S. JOLIET STREET  
JOLIET, IL, 60436



DRAWN BY:	PROJECT:
EP	21-2007
CHECKED BY:	SCALE:
TC	NTS
DATE:	SHEET #:
3/24/2025	1 OF 4

SHEET NAME:

SL-1



FIRST FLOOR  
SCALE = N.T.S.



LEGEND

SUSPECT ACM SAMPLE LOCATIONS: TW032525-XX  
BATCH NUMBER: 374266

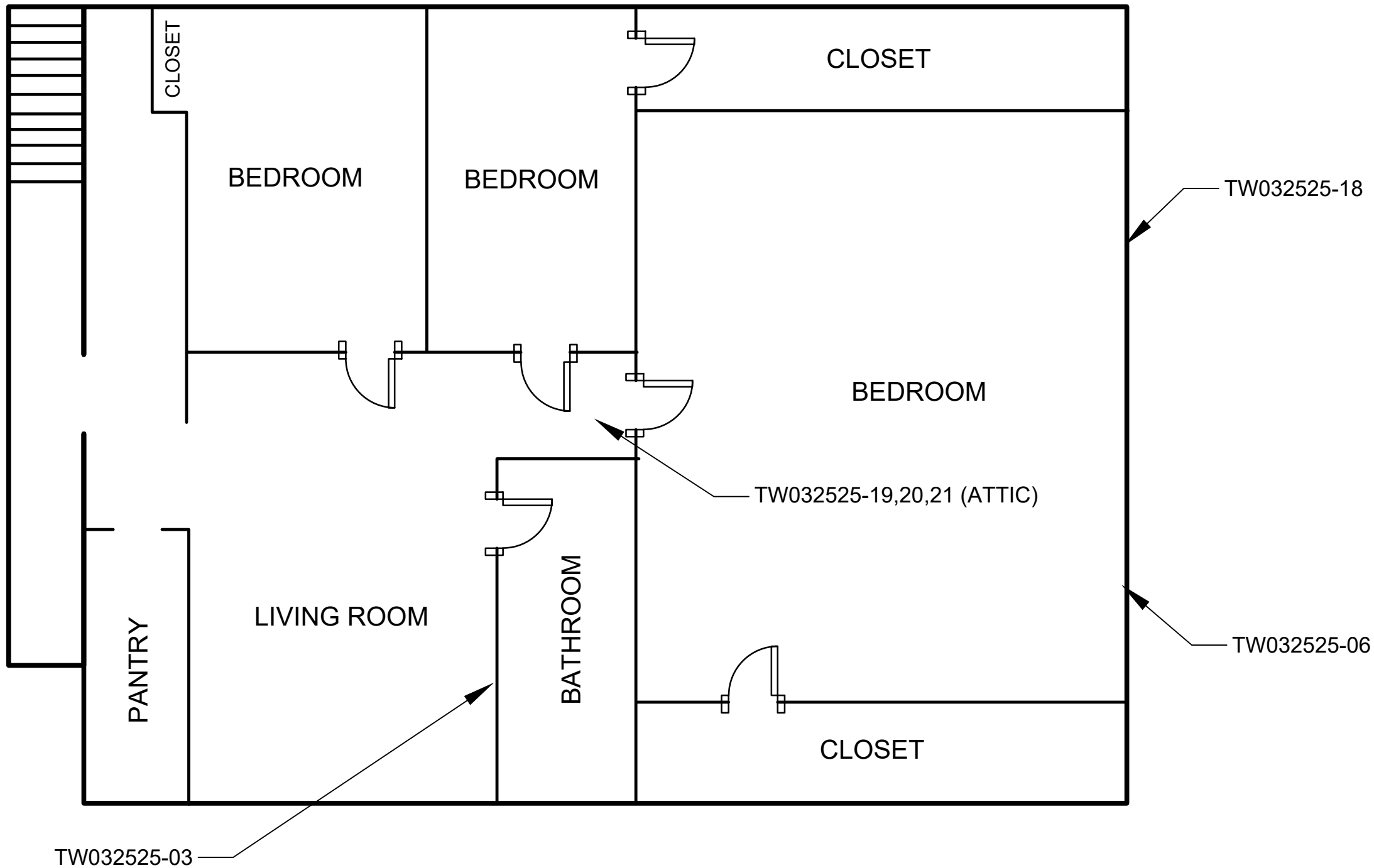
SUSPECT ASBESTOS-CONTAINING MATERIALS SAMPLE LOCATION PLAN

ASBESTOS SURVEY FOR BUILDING DEMOLITION (I-80)  
521 S. JOLIET STREET  
JOLIET, IL, 60436



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SHEET NAME:	

**SL-2**



SECOND FLOOR  
SCALE = N.T.S.



LEGEND

SUSPECT ACM SAMPLE LOCATIONS: TW032525-XX  
BATCH NUMBER: 374266

SUSPECT ASBESTOS-CONTAINING MATERIALS SAMPLE LOCATION PLAN

ASBESTOS SURVEY FOR BUILDING DEMOLITION (I-80)  
521 S. JOLIET STREET  
JOLIET, IL, 60436



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3/24/2025	3 OF 4

SHEET NAME:

**SL-3**





SUSPECT ASBESTOS-CONTAINING MATERIALS SAMPLE LOCATION PLAN

ASBESTOS SURVEY FOR BUILDING DEMOLITION (I-80)  
521 S. JOLIET STREET  
JOLIET, IL 60436

GSG CONSULTANTS, INC.

735 E. REMINGTON RD., SUITE 100, JOLIET, IL 60438  
TEL: 815.725.1234 FAX: 815.725.1235  
ILLINOIS PROFESSIONAL DESIGN FRANK BAPOZZESE

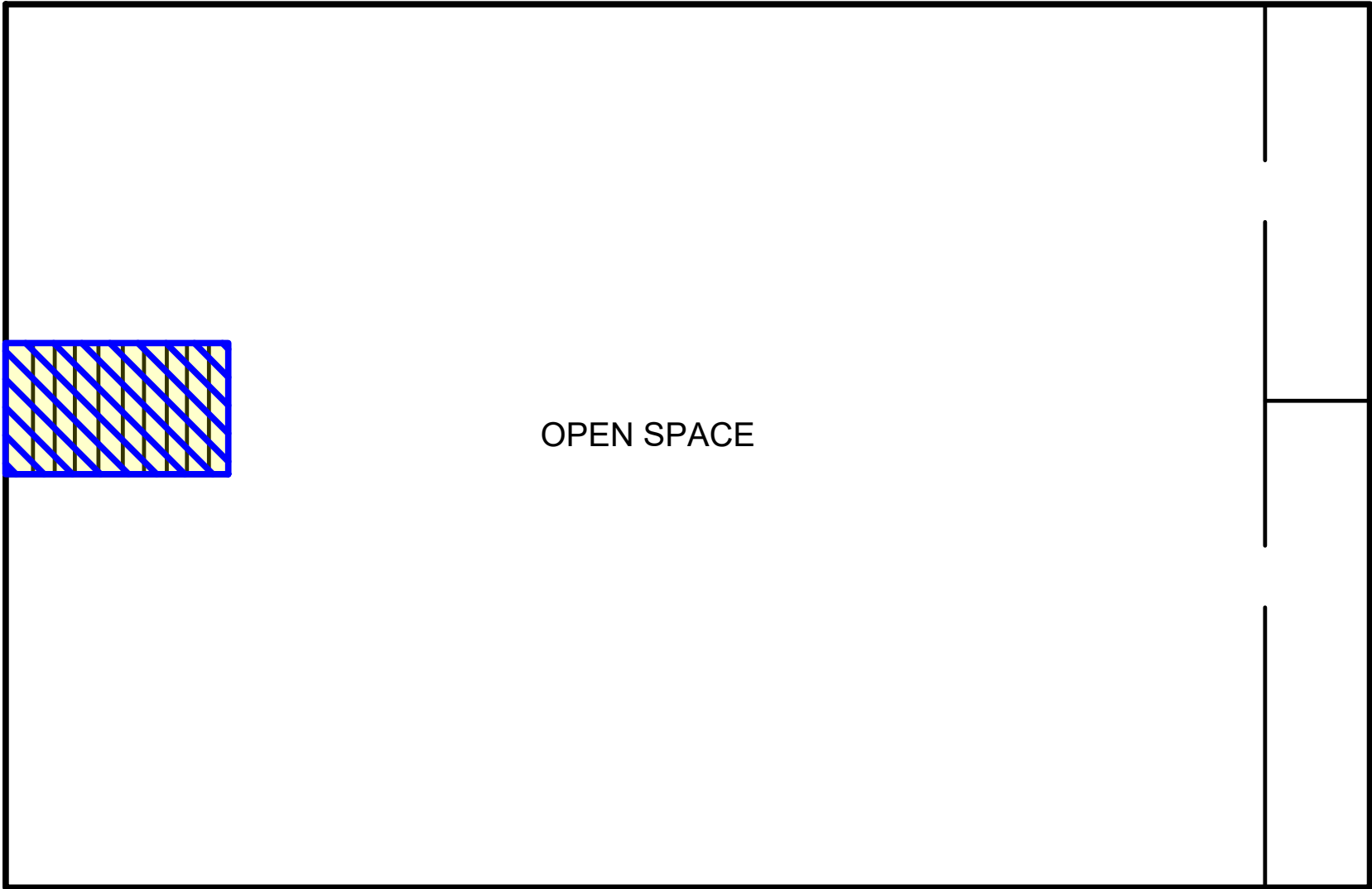
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SHEET NAME:	
SL-4	



## EXHIBIT 2

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### ACM-1 and ACM-2 ACM Location Plan




BASEMENT  
SCALE = N.T.S.



LEGEND

LOCATIONS OF ASBESTOS CONTAINING MATERIALS

 9"X9" VINYL FLOOR TILE & MASTIC

ASBESTOS-CONTAINING MATERIALS LOCATION PLAN

ASBESTOS SURVEY FOR BUILDING DEMOLITION (I-80)  
521 S. JOLIET STREET  
JOLIET, IL 60436

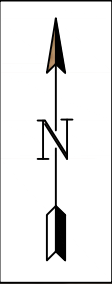
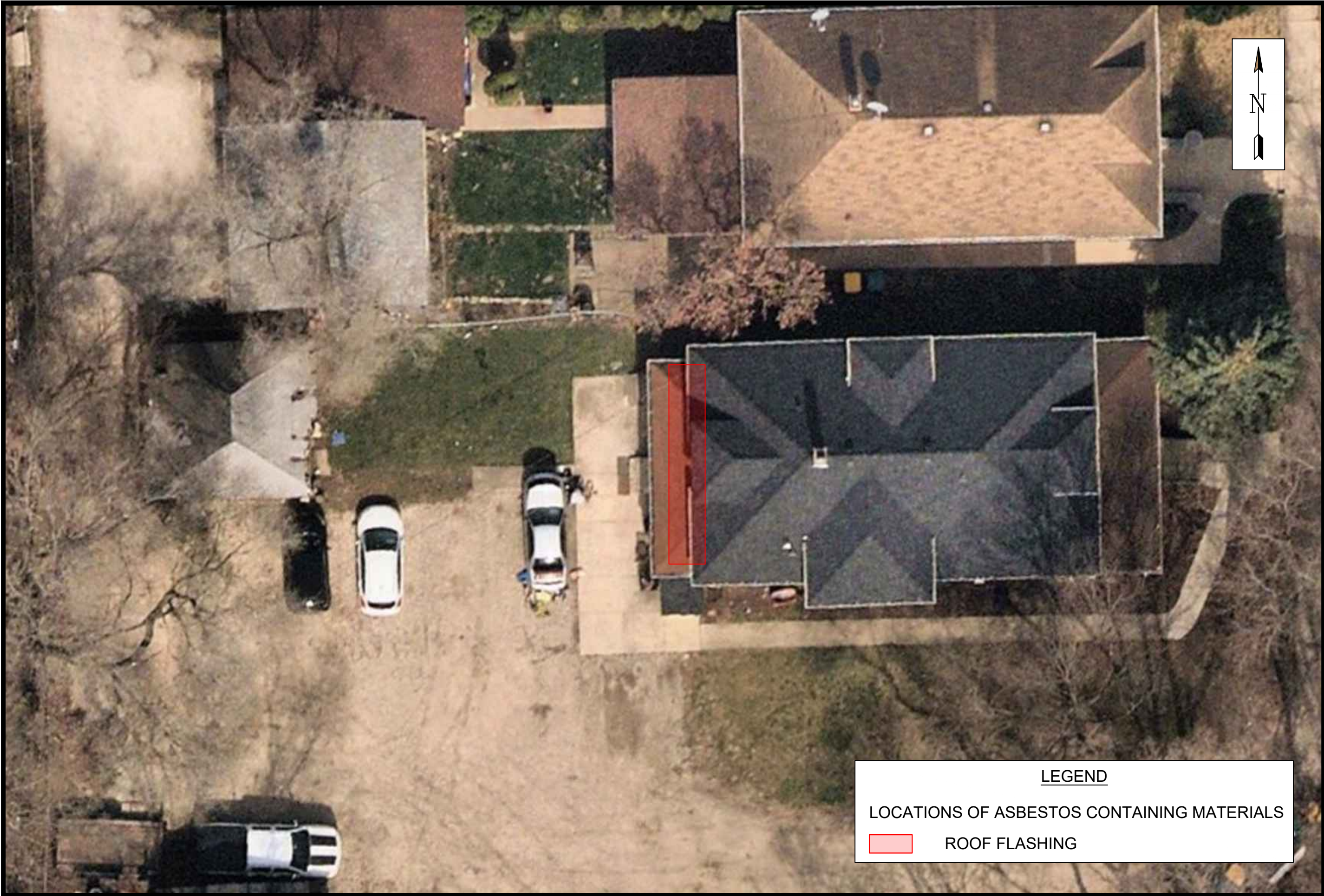


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DATE:	SHEET #:
3/24/2025	1 OF 2

SHEET NAME:

ACM-1






LEGEND

LOCATIONS OF ASBESTOS CONTAINING MATERIALS

ROOF FLASHING

ASBESTOS-CONTAINING MATERIALS LOCATION PLAN

ASBESTOS SURVEY FOR BUILDING DEMOLITION (I-80)  
521 S. JOLIET STREET  
JOLIET, IL, 60436

**GSG CONSULTANTS, INC.**  
735 E REMINGTON RD., SUITE 100, JOLIET, IL 60436  
TEL: 815.725.1234 FAX: 815.725.1235  
ILLINOIS PROFESSIONAL DESIGN FIRM #14-002828

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EP	21-2007
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TC	NTS
DATE:	SHEET #:
2/24/2025	2 OF 2
SHEET NAME:	
ACM-2	



## APPENDIX A

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### Analytical Testing Results

**ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY**

Method: EPA/600/R-93/116

GSG Consultants, Inc.  
735 Remington Road  
Schaumburg, IL 60173  
Phone: (630) 994-2600  
Fax: (312) 733-5612

Reference: Date Received: 03/27/2025  
Location: 521 Joliet Date Analyzed: 04/03/2025  
Batch No.: 374266 Date Reported: 04/03/2025  
Customer No.: 4651 Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374266001	TW032525-1	ND	Cellulose 10-15% Binder 85-90%
374266002	TW032525-2	ND	Cellulose 10-15% Binder 85-90%
374266003	TW032525-3	ND	Cellulose 10-15% Binder 85-90%
374266004	TW032525-4	ND	Cellulose 1-5% Binder 95-99%
374266005	TW032525-5	ND	Cellulose 1-5% Binder 95-99%
374266006	TW032525-6	ND	Cellulose 1-5% Binder 95-99%
374266007	TW032525-7	ND	Cellulose 1-5% Binder 95-99%
374266008	TW032525-8	ND	Cellulose 1-5% Binder 95-99%
374266009	TW032525-9	ND	Cellulose 1-5% Binder 95-99%
374266010	TW032525-10	Chrysotile 5-10%	Binder 90-95%
374266011	TW032525-11	NA	


ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

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Analyzed by Name :

  
Daniel Mikos / Microscopist

**ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY**

Method: EPA/600/R-93/116

GSG Consultants, Inc.  
735 Remington Road  
Schaumburg, IL 60173  
Phone: (630) 994-2600  
Fax: (312) 733-5612

## Reference:

Location: 521 Joliet  
Batch No.: 374266  
Customer No.: 4651

Date Received: 03/27/2025  
Date Analyzed: 04/03/2025  
Date Reported: 04/03/2025  
Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374266012	TW032525-12	NA	
374266013	TW032525-13	Chrysotile 1-5%	Binder 95-99%
374266014	TW032525-14	NA	
374266015	TW032525-15	NA	
374266016	TW032525-16	ND	Cellulose 1-5% Binder 95-99%
374266017	TW032525-17	ND	Cellulose 1-5% Binder 95-99%
374266018	TW032525-18	ND	Cellulose 1-5% Binder 95-99%
374266019	TW032525-19	ND	Binder 15-20% Glass 80-85%
374266020	TW032525-20	ND	Binder 15-20% Glass 80-85%
374266021	TW032525-21	ND	Binder 15-20% Glass 80-85%
374266022	TW032525-22	ND	Cellulose 35-40% Binder 60-65%
374266023	TW032525-23	ND	Cellulose 35-40% Binder 60-65%

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Analyzed by Name :



**ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY**

Method: EPA/600/R-93/116

GSG Consultants, Inc.  
735 Remington Road  
Schaumburg, IL 60173  
Phone: (630) 994-2600  
Fax: (312) 733-5612

Reference:

Location: 521 Joliet  
Batch No.: 374266  
Customer No.: 4651

Date Received: 03/27/2025

Date Analyzed: 04/03/2025

Date Reported: 04/03/2025

Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374266024	TW032525-24	ND	Cellulose 35-40% Binder 60-65%
374266025	TW032525-25	ND	Binder 85-90% Glass 10-15%
374266026	TW032525-26	ND	Binder 85-90% Glass 10-15%
374266027	TW032525-27	ND	Binder 85-90% Glass 10-15%
374266028	TW032525-28	ND	Binder 85-90% Glass 10-15%
374266029	TW032525-29	ND	Binder 85-90% Glass 10-15%
374266030	TW032525-30	ND	Binder 85-90% Glass 10-15%
374266031	TW032525-31	ND	Cellulose 10-15% Binder 85-90%
374266032	TW032525-32	ND	Cellulose 10-15% Binder 85-90%
374266033	TW032525-33	ND	Cellulose 10-15% Binder 85-90%


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Analyzed by Name :

  
Daniel Mikos / Microscopist

Date: 04/03/2025

## ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

GSG Consultants, Inc.  
 735 Remington Road  
 Schaumburg, IL 60173  
 Phone: (630) 994-2600  
 Fax: (312) 733-5612

## Reference:

Location: 521 Joliet  
 Batch No.: 374266  
 Customer No.: 4651

Date Received: 03/27/2025

Date Analyzed: 04/03/2025

Date Reported: 04/03/2025

Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374266034	TW032525-34	ND	Cellulose 60-65% Binder 35-40%
374266035	TW032525-35	ND	Cellulose 60-65% Binder 35-40%
374266036	TW032525-36	ND	Cellulose 60-65% Binder 35-40%
374266037	TW032525-37	Chrysotile 5-10%	Binder 90-95%
374266038	TW032525-38	NA	
374266039	TW032525-39	NA	
374266040	TW032525-40	ND	Binder 85-90% Glass 10-15%
374266041	TW032525-41	ND	Binder 85-90% Glass 10-15%
374266042	TW032525-42	ND	Binder 85-90% Glass 10-15%
374266043	TW032525-43	ND	Cellulose 60-65% Binder 35-40%
374266044	TW032525-44	ND	Cellulose 60-65% Binder 35-40%

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Analyzed by Name :

  
 Daniel Mikos / Microscopist

## ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

GSG Consultants, Inc.  
735 Remington Road  
Schaumburg, IL 60173  
Phone: (630) 994-2600  
Fax: (312) 733-5612

## Reference:

Location: 521 Joliet  
Batch No.: 374266  
Customer No.: 4651

Date Received: 03/27/2025

Date Analyzed: 04/03/2025

Date Reported: 04/03/2025

Turn Around Time: 5 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
374266045	TW032525-45	ND	Cellulose 60-65% Binder 35-40%
374266046	TW032525-46	ND	Cellulose 1-5% Binder 95-99%
374266047	TW032525-47	ND	Cellulose 1-5% Binder 95-99%
374266048	TW032525-48	ND	Cellulose 1-5% Binder 95-99%
374266049	TW032525-49	ND	Cellulose 1-5% Binder 95-99%
374266050	TW032525-50	ND	Cellulose 1-5% Binder 95-99%
374266051	TW032525-51	ND	Cellulose 1-5% Binder 95-99%

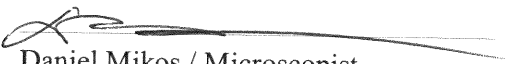
ND = Asbestos Not Detected (Not Present)    NA = Not Analyzed    NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

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Analyzed by Name :

  
Daniel Mikos / Microscopist



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Engineering and Industrial Hygiene Services

735 Remington Road

Schaumburg, IL 60173

(630) 994-2600 Fax: (312) 733-5612

www.gsg-consultants.com

Page 1 of 4

374266

PLM BULK LABORATORY ANALYSIS FORM

Project Name:		Project Manager:	
Project Number:		Building Inspector:	
Project Address: <u>521 Solist</u>		IDPH Number:	
City/ State:		Work Day: S M T W TH F S	
Client:		Analyze by Method:	
Date: <u>3/25/25</u>		EPA/600/R-93-116	

Field Number	HA Number	Type of material, specific sample location (i.e. Room Number, Building Construction Date)
<u>TW032525-1</u>	<u>HA-1</u>	<u>Drywall System Throughout 1st &amp; 2nd</u>
<u>-2</u>	<u>↓</u>	<u>↓</u>
<u>-3</u>	<u>↓</u>	<u>↓</u>
<u>-4</u>	<u>HA-2</u>	<u>Interior Window Cank Throughout</u>
<u>-5</u>	<u>↓</u>	<u>↓</u>
<u>-6</u>	<u>↓</u>	<u>↓</u>
<u>-7</u>	<u>HA-3</u>	<u>Window Cank Porch</u>
<u>-8</u>	<u>↓</u>	<u>↓</u>
<u>-9</u>	<u>↓</u>	<u>↓</u>
<u>-10</u>	<u>HA-4</u>	<u>9x9 Red F.T Basement Stairs</u>
<u>-11</u>	<u>↓</u>	<u>505F</u>
<u>12</u>	<u>↓</u>	<u>↓</u>
<u>13</u>	<u>HA-5</u>	<u>Mastic</u>
<u>14</u>	<u>↓</u>	<u>↓</u>
<u>15</u>	<u>↓</u>	<u>↓</u>

TURN AROUND TIME:	1 Day 2 Days 3 Days  (5 Day) Other	COMMENTS: E-mail Results to: <a href="mailto:twalsh@gsg-consultants.com">twalsh@gsg-consultants.com</a> <a href="mailto:epahomi@gsg-consultants.com">epahomi@gsg-consultants.com</a>  STOP AT FIRST POSITIVE
-------------------	--	--

CHAIN OF CUSTODY RECORD

Collected By(Signature) <u>[Signature]</u>	Date: <u>3/25/25</u>	Time:	Relinquished by (Signature) <u>[Signature]</u>	Date: <u>3/26/25</u>	Time:
Received by: (Signature)	Date:	Time:	Relinquished by: (signature)	Date:	Time:
Dispatched by: (Signature, if mailed)	Date:	Time:	Received for Laboratory by: <u>[Signature]</u>	Date: <u>3/27/25</u>	Time: <u>08:10</u>

Definitions: BLK-Bulk Sample, PLM-Polarized Light Microscopy, TEM-Transmission Electron Microscope.



GSG CONSULTANTS, INC.

Engineering and Industrial Hygiene Services

735 Remington Road

Schaumburg, IL 60173

(630) 994-2600 Fax: (312) 733-5612

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374266

Page 2 of 4

PLM BULK LABORATORY ANALYSIS FORM

Project Name:	Project Manager:
Project Number:	Building Inspector:
Project Address: 521 Joliet	IDPH Number:
City/ State:	Work Day: S M T W TH F S
Client:	Analyze by Method:
Date:	EPA/600/R-93-116

Field Number	HA Number	Type of material, specific sample location (i.e. Room Number, Building Construction Date)
16	HA-6	Plaster Throughout 1st & 2nd
17	↓	↓
18	↓	↓
19	HA-7	Attic Insulation
20	↓	↓
21	↓	↓
22	HA-8	Chimney Brick
23	↓	↓
24	↓	↓
25	HA-9	Red Roof Shingle
26	↓	↓
27	↓	↓
28	HA-10	Black roof Shingle
29	↓	↓
30	↓	↓

TURN AROUND TIME:

1 Day  
2 Days  
3 Days

(5 Day) Other

COMMENTS: E-mail Results to:  
[twalsh@gsg-consultants.com](mailto:twalsh@gsg-consultants.com)  
[epahomi@gsg-consultants.com](mailto:epahomi@gsg-consultants.com)

STOP AT FIRST POSITIVE

CHAIN OF CUSTODY RECORD

Collected By (Signature)	Date: 3/25/25	Time:	Relinquished by (Signature)	Date: 3/26/25	Time:
Received by: (Signature)	Date:	Time:	Relinquished by: (signature)	Date:	Time:
Dispatched by: (Signature, if mailed)	Date:	Time:	Received for Laboratory by:	Date: 3/27/25	Time: 08:10

Definitions: BLK-Bulk Sample, PLM-Polarized Light Microscopy, TEM-Transmission Electron Microscope.





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374266

Page 3 of 4

PLM BULK LABORATORY ANALYSIS FORM

Project Name:	Project Manager:
Project Number:	Building Inspector:
Project Address: 521 Joliet	IDPH Number:
City/ State:	Work Day: S M T W TH F S
Client:	Analyze by Method:
Date:	EPA/600/R-93-116

Field Number	HA Number	Type of material, specific sample location (i.e. Room Number, Building Construction Date)
TW032525 31	HA-11	Brown Red Shingle
32		
33		
34	HA-12	Felt paper
35		
36		
37	HA-13	Red Flashing
38		
39		
40	HA-14	Garage Shingle
41		
42		
43	HA-15	Garage Felt paper
44		
45		

<b>TURN AROUND TIME:</b> 1 Day 2 Days 3 Days (5 Day) Other	<b>COMMENTS:</b> E-mail Results to: <a href="mailto:twalsh@gsg-consultants.com">twalsh@gsg-consultants.com</a> <a href="mailto:epahomi@gsg-consultants.com">epahomi@gsg-consultants.com</a> <b>STOP AT FIRST POSITIVE</b>
--	--

CHAIN OF CUSTODY RECORD

Collected By(Signature)	Date: 3/25/25	Time:	Relinquished by (Signature)	Date: 3/26/25	Time:
Received by: (Signature)	Date:	Time:	Relinquished by: (signature)	Date:	Time:
Dispatched by: (Signature, if mailed)	Date:	Time:	Received for Laboratory by:	Date: 3/27/25	Time: 08:10

Definitions: BLK-Bulk Sample, PLM-Polarized Light Microscopy, TEM-Transmission Electron Microscope.




374266

Page 1 of 1

## PLM BULK LABORATORY ANALYSIS FORM

Project Name:		Project Manager:	
Project Number:		Building Inspector:	
Project Address: 521 Solist		IDPH Number:	
City/ State:		Work Day: S M T W TH F S	
Client:		Analyze by Method: EPA/600/R-93-116	
Date:			
Field Number	HA Number	Type of material, specific sample location (i.e. Room Number, Building Construction Date)	
TW032525-46	HA-16	Window Glazing 19 windows	
47	↓	Front + Back Porch	
48	↓		
49	HA-17	Exterior White Window Cailk	
50	↓	↓	
51	↓	↓	
TURN AROUND TIME:		COMMENTS: E-mail Results to:	
1 Day		twalsh@gsg-consultants.com	
2 Days		epahomi@gsg-consultants.com	
3 Days		STOP AT FIRST POSITIVE	
(5 Day) Other			

## CHAIN OF CUSTODY RECORD

Collected By(Signature) 	Date: 3/25/25	Time:	Relinquished by (Signature) 	Date: 3/26/25	Time:
Received by: (Signature)	Date:	Time:	Relinquished by: (signature)	Date:	Time:
Dispatched by: (Signature, if mailed)	Date:	Time:	Received for Laboratory by: 	Date: 3/27/25	Time: 08:10

Definitions: BLK-Bulk Sample, PLM-Polarized Light Microscopy, TEM-Transmission Electron Microscope.

## APPENDIX B

---

### Reference Photographs



**Material Description:**  
Suspect ACM Drywall  
System

**Photo Location:**  
First Floor Living Room

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-80 OVER DES PLAINES RIVER BRIDGE  
IMPROVEMENTS**



GSG Consultants, Inc.  
735 Remington Road  
Schaumburg, Illinois 60173

**Date:** 3/25/25



**Material Description:**  
Suspect ACM Window Caulk

**Photo Location:**  
First Floor Living Room

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-80 OVER DES PLAINES RIVER BRIDGE  
IMPROVEMENTS**



GSG Consultants, Inc.  
735 Remington Road  
Schaumburg, Illinois 60173

**Date:** 3/25/25



**Material Description:**  
Suspect ACM Window Caulk

**Photo Location:**  
Porch

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-80 OVER DES PLAINES RIVER BRIDGE  
IMPROVEMENTS**



GSG Consultants, Inc.  
735 Remington Road  
Schaumburg, Illinois 60173

**Date:** 3/25/25



**Material Description:**  
9"x9" Red Floor Tile &  
Mastic - **Tested Positive  
for Asbestos**

**Photo Location:**  
Basement Stairs

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-80 OVER DES PLAINES RIVER BRIDGE  
IMPROVEMENTS**



GSG Consultants, Inc.  
735 Remington Road  
Schaumburg, Illinois 60173

**Date:** 3/25/25



**Material Description:**  
Suspect ACM Plaster

**Photo Location:**  
Second Floor

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-80 OVER DES PLAINES RIVER BRIDGE  
IMPROVEMENTS**



GSG Consultants, Inc.  
735 Remington Road  
Schaumburg, Illinois 60173

**Date:** 3/25/25



**Material Description:**  
Suspect ACM Attic  
Insulation

**Photo Location:**  
Attic

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-80 OVER DES PLAINES RIVER BRIDGE  
IMPROVEMENTS**



GSG Consultants, Inc.  
735 Remington Road  
Schaumburg, Illinois 60173

**Date:** 3/25/25





**Material Description:**  
Suspect ACM Chimney Brick

**Photo Location:**  
Attic

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-80 OVER DES PLAINES RIVER BRIDGE  
IMPROVEMENTS**



GSG Consultants, Inc.  
735 Remington Road  
Schaumburg, Illinois 60173

**Date:** 3/25/25



**Material Description:**  
Suspect ACM Red Roof  
Shingle

**Photo Location:**  
House Roof

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-80 OVER DES PLAINES RIVER BRIDGE  
IMPROVEMENTS**



GSG Consultants, Inc.  
735 Remington Road  
Schaumburg, Illinois 60173

**Date:** 3/25/25



**Material Description:**  
Suspect ACM Black Roof  
Shingle

**Photo Location:**  
House Roof

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-80 OVER DES PLAINES RIVER BRIDGE  
IMPROVEMENTS**



GSG Consultants, Inc.  
735 Remington Road  
Schaumburg, Illinois 60173

**Date:** 3/25/25



**Material Description:**  
Suspect ACM White Window  
Caulk

**Photo Location:**  
Exterior

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-80 OVER DES PLAINES RIVER BRIDGE  
IMPROVEMENTS**



GSG Consultants, Inc.  
735 Remington Road  
Schaumburg, Illinois 60173

**Date:** 3/25/25





**Material Description:**  
Suspect ACM Roofing  
Materials

**Photo Location:**  
Garage Roof

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-80 OVER DES PLAINES RIVER BRIDGE  
IMPROVEMENTS**



GSG Consultants, Inc.  
735 Remington Road  
Schaumburg, Illinois 60173

**Date:** 3/25/25



**Material Description:**  
Suspect ACM Window  
Glazing

**Photo Location:**  
Back Porch

**ILLINOIS DEPARTMENT OF  
TRANSPORTATION  
I-80 OVER DES PLAINES RIVER BRIDGE  
IMPROVEMENTS**



GSG Consultants, Inc.  
735 Remington Road  
Schaumburg, Illinois 60173

**Date:** 3/25/25

## APPENDIX C

---

### Inspector Licenses and Training Certifications



**ASBESTOS  
PROFESSIONAL  
LICENSE**

ID NUMBER  
**100 - 08900**

ISSUED  
**3/1/2024**

EXPIRES  
**05/15/2025**

**TIMOTHY WALSH**  
15237 LAPORTE AVE  
OAK FOREST, IL 60452

Environmental Health



**ENDORSEMENTS**

**TC EXPIRES**

INSPECTOR

1/27/2025

PROJECT MANAGER  
AIR SAMPLING PROFESSIONAL

8/30/2024

**Alteration of this license shall result in legal action**  
This license issued under authority of the State of Illinois  
Department of Public Health  
This license is valid only when accompanied by a valid  
training course certificate.

## APPENDIX D

---

### Laboratory Accreditations

United States Department of Commerce  
National Institute of Standards and Technology



---

# Certificate of Accreditation to ISO/IEC 17025:2017

---

NVLAP LAB CODE: 101202-0

**STAT Analysis Corporation**  
Chicago, IL

*is accredited by the National Voluntary Laboratory Accreditation Program for specific services,  
listed on the Scope of Accreditation, for:*

**Asbestos Fiber Analysis**

*This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017.  
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality  
management system (refer to joint ISO-ILAC-IAF Communiqué on ISO/IEC 17025).*

---

2024-07-01 through 2025-06-30

*Effective Dates*



  
For the National Voluntary Laboratory Accreditation Program

**SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017**

**STAT Analysis Corporation**

Sterling Labs  
2242 W. Harrison St. Suite 200  
Chicago, IL 60612  
Carolyn Mazzuca  
Phone: 312-733-0551  
Email: cmazzuca@statanalysis.com

**ASBESTOS FIBER ANALYSIS**

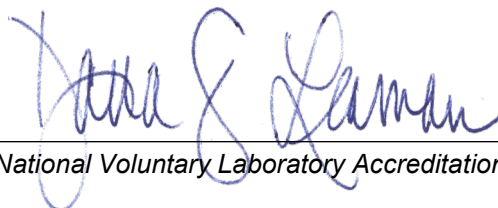
**NVLAP LAB CODE 101202-0**

**Bulk Asbestos Analysis**

<u><b>Code</b></u>	<u><b>Description</b></u>
18/A01	EPA -- 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples
18/A03	EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials

**Airborne Asbestos Analysis**

<u><b>Code</b></u>	<u><b>Description</b></u>
18/A02	U.S. EPA's "Interim Transmission Electron Microscopy Analytical Methods-Mandatory and Nonmandatory-and Mandatory Section to Determine Completion of Response Actions" as found in 40 CFR, Part 763, Subpart E, Appendix A.



*For the National Voluntary Laboratory Accreditation Program*