ADDENDUM NO. 2

TO: PLANS AND SPECIFICATIONS FOR STATE OF MISSOURI

Window Replacement Building 1029
Missouri National Guard
Fort Leonard Wood, Missouri
PROJECT NO.: T2028-01

Bid Opening Date: 1:30 PM, Thursday, June 11, 2020 (Not Changed)

Bidders are hereby informed that the construction Plans and/or Specifications are modified as follows:

SPECIFICATION CHANGES:

1. EXHIBIT B – ASBESTOS SURVEY
   a. ADD attached EXHIBIT B – ASBESTOS SURVEY
2. EXHIBIT C – LEAD BASED PAINT SURVEY
   a. ADD attached EXHIBIT C – LEAD BASED PAINT SURVEY

DRAWING CHANGES: NONE

GENERAL COMMENTS:

1. The Pre-Bid meeting was held Wednesday, May 28, 2020 followed by a walk-through of the facility.
2. Changes to, or clarification of, the bid documents are only made as issued in the addenda.
3. All correspondence with respect to this project must include the State of Missouri project number as indicated above.
4. Current Planholders list available online at: https://www.oafmdcplanroom.com/jobs/490/details/t2028-01-window-repl-flw-building-1029
5. Please contact Mandy Roberson, Contract Specialist, at 573-522-0074 or mandy.roberson@oa.mo.gov for questions about bidding procedures and MBE\WBE\SDVE Goals and bid submittal requirements.
6. Prospective Bidders contact American Document Solutions, 1400 Forum Blvd Suite 1C, Columbia MO 65201, 573-446-7768 to order official plans and specifications.

ATTACHMENTS:

1. EXHIBIT B – ASBESTOS SURVEY
2. EXHIBIT C – LEAD BASED PAINT SURVEY

June 4, 2020

END ADDENDUM NO. 2

EXHIBIT B - ASBESTOS SURVEY

SCI ENGINEERING, INC.
CONSULTANTS IN DEVELOPMENT, DESIGN, AND CONSTRUCTION
GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

March 7, 2017

Mr. Ty Morris
Barr Engineering Company
1001 Diamond Ridge, Suite 1100
Jefferson City, Missouri 65109

RE: Summary of Asbestos Survey Activities
FLW Building 1029 Renovation (T1713-01)
Fort Leonard Wood, Missouri
SCI No. 2017-7007.25

Dear Mr. Morris:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report of the analytical test results for samples of suspect asbestos-containing materials (ACMs) collected during the survey performed on February 13, 2017.

The purpose of this survey was to identify ACMs in accessible areas of Building 1029 at Fort Leonard Wood. This survey is intended to satisfy the requirements for the asbestos National Emission Standard for Hazardous Air Pollutant for demolition and renovation. It is also intended to be used for Occupational Safety and Health Administration (OSHA) compliance.

The on-site structure is an approximate 13,500-square-foot three-story residential dormitory which appears to have been constructed in the early 1940s. The exterior of the building was brick with metal windows and utilized boilers with natural gas for heating.

ASBESTOS SURVEY

Sixty-three samples were collected from the on-site structure. These samples were analyzed by Polarized Light Microscopy (PLM). Of these 61 samples, 96 individual layers were analyzed, 17 of which were found to contain asbestos. Analytical test results and chain-of-custody documentation are enclosed. The results of the analysis of all samples are summarized in Table 1.

Table 1 – Summary of Analytical Test Results

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
1a	Throughout	9” x 9” Brown Floor Tile (on concrete)	38,100 sf	5-10% Chrysotile in Floor Tile; None Detected in Mastic	NCI
1b				5-10% Chrysotile in Floor Tile; None Detected in Mastic	
1c				5-10% Chrysotile in Floor Tile; None Detected in Mastic	

sf – square feet
NCI – Non-Friable Category I Material

Table 1 – Summary of Analytical Test Results (continued)

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
2a	Throughout	Beige Cove Base	--	None Detected in Cove Base or Mastic	--
2b				None Detected in Cove Base or Mastic	
2c				None Detected in Cove Base or Mastic	
3a	Throughout	Black Window Caulk	--	None Detected in Mastic or Caulk	--
3b				None Detected in Mastic or Caulk	
3c				None Detected in Mastic or Caulk	
4a	Throughout	Gray Window Caulk	--	None Detected	--
4b				None Detected	
4c				None Detected	
5a	Room 125	Pipe Insulation (lag cloth over fiberglass)	1,200 lf *See Discussion Below	5-10% Chrysotile	Friable
5b	Room 201			None Detected	--
5c	Room 233			5-10% Chrysotile	Friable
6a	Room 121	Drywall System	--	None Detected in Drywall or Joint Compound	--
6b	Room 134			None Detected in Drywall or Joint Compound	
6c	2nd Floor Men's Restroom			None Detected in Drywall or Joint Compound	
7a	Side A Entryway	Leveling Compound	--	None Detected in Compound or Mastic	--
7b				None Detected in Compound or Mastic	
7c				None Detected in Compound or Mastic	
8a	North Stairwell 1st Floor	Ceiling Texture	--	None Detected	--
8b	Room 134			None Detected	
8c	West Stairwell			None Detected	

lf – linear feet

Table 1 – Summary of Analytical Test Results (continued)

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
9a	Room 134	12” x 12” Beige Floor Tile	--	None Detected in Floor Tile, or Black or Tan Mastic	--
9b				None Detected in Floor Tile, or Black or Tan Mastic	
9c				None Detected in Floor Tile, or Black or Tan Mastic	
10a	Room 134	12” x 12” Light Brown Floor Tile	--	None Detected in Floor Tile or Mastic	--
10b				None Detected in Floor Tile or Mastic	
10c				None Detected in Floor Tile or Mastic	
11a	Women’s Restroom	Plaster Ceiling	--	None Detected in Plaster or Paint Layers	--
11b				None Detected in Plaster or Paint Layers	
11c				None Detected in Plaster or Paint Layers	
12a	Room 112	9” x 9” Green Floor Tile	5 sf	5-10% Chrysotile in Black Mastic; None Detected in Floor Tile or Tan Mastic	NCI
12b				5-10% Chrysotile in Black Mastic; None Detected in Floor Tile or Tan Mastic	
12c				5-10% Chrysotile in Black Mastic; None Detected in Floor Tile or Tan Mastic	
13a	Room 205	Ceiling Texture	See Below	5-10% Chrysotile	Friable
13b	Room 200	Ceiling Texture		5-10% Chrysotile	
13c	Room 228	Ceiling Texture		5-10% Chrysotile	
14a	Room 327	Ceiling Texture	See Below	5-10% Chrysotile	Friable
14b	Room 300	Ceiling Texture		5-10% Chrysotile	
14c	Room 304	Ceiling Texture		5-10% Chrysotile	

sf – square feet
NCI – Non-Friable Category I Material

Table 1 – Summary of Analytical Test Results (continued)

Sample Number	Material Location	Material Description	Approx. Quantity	Result	Category
15a	All Windows	Transite Panel (with wood fiber insulation)	185 panels	25-30% Chrysotile	NCII
15b	All Windows	Transite Panel (with wood fiber insulation)		25-30% Chrysotile	
15c	All Windows	Transite Panel (with wood fiber insulation)		25-30% Chrysotile	
16a	Basement	Pipe Insulation	--	None Detected	--
16b				None Detected	
16c				None Detected	
17a	Basement Mechanical Room	Spray-On Fireproofing?	--	None Detected	--
17b				None Detected	
17c				None Detected	
18a	Exterior	Window Glaze	--	None Detected	--
18b				None Detected	
18c				None Detected	
19a	Exterior	Window Caulk	--	None Detected	--
19b				None Detected	
19c				None Detected	
20a	Exterior	Expansion Joint Caulk	--	None Detected	--
20b				None Detected	
20c				None Detected	
21a	Exterior	Brown Door Caulk	--	None Detected	--
21b				None Detected	
21c				None Detected	

NCII – Non-Friable Category II Material

DEMOLITION/RENOVATION

According to the Missouri Department of Natural Resources (MDNR), any friable or potentially friable ACM equal to or greater than 260 linear feet or 160 square feet is classified as a regulated ACM (RACM) and must be removed prior to demolition or renovation which would significantly damage the material.

SCI collected 3 ceiling texture samples per floor (9 total samples). The 3 samples from the first floor were determined to be negative. The 3 samples collected from the second floor and the 3 samples collected from the third floor were determined to be positive for asbestos. Additionally, SCI was provided with an asbestos sampling report prepared by LB&B Associates, dated September 29, 2009.

During this sampling event, LB&B Associates collected 14 ceiling texture samples and only one sample (on the second floor) tested positive for asbestos. Based on in-conclusive nature of the sample results, SCI recommends either all ceiling texture be considered asbestos-containing or room-by-room sampling be performed to determine whether homogenous areas can be determined.

The lag cloth on the pipe insulation was found to contained asbestos and is considered a friable material. All pipe insulation in the crawl spaces, wet walls, and pipe chases is asbestos-containing. The insulation in the basement mechanical room had been replaced and was not identified to contain asbestos. Based on a copy of the demolition drawing provided to SCI, it appears that only the pipe insulation within the restrooms will be impacted by renovations. The pipe insulation in the restrooms is expected to total approximately 1,200 linear feet. This material will require abatement prior to building renovations.

The transite paneling is a Category II non-friable material and according to the rule outlined above, is not, by definition, an RACM. However, if renovation activities (such as window replacement) will damage these materials, they must be properly abated.

The 9”x9” brown floor tile and 9”x9” green floor tile are Category I non-friable materials and would not require removal. However, if renovation activities will damage these materials, they must be properly abated. Alternately, new flooring materials can be installed over the ACM flooring if the floor preparation does not render the ACM friable. If any renovation activities will impact the floor tile or mastic, OSHA regulations will apply.

The building had a flat membrane roof which is not planned to be impacted by building renovations. Due to the potential for water leakage from the sample location, SCI did not collect a sample of the roofing material. The roofing membrane would need to be sampled prior to any renovation or replacement to determine whether or not the roofing membrane is an ACM.

The Occupational Safety & Health Administration also has regulations (29 CFR Parts 1910 et al, Occupational Exposure to Asbestos, August 10, 1994) regarding removal of asbestos-containing materials which must be followed.

REPORTING

Attached is Demolition and Renovation form which has been filled out to the extent possible by SCI. The remaining information must be completed by you.

This report, as well as the completed EPA Notification of Demolition and Renovation form, must be submitted to the MDNR as follows:

- MDNR, Air Pollution Control, PO Box 176, Jefferson City, MO, 65102, Mr. Todd Schneiders.

It should be noted that following submittal of the notification form, there is a ten day waiting period before demolition, renovation, or abatement activities can begin.

SCI's asbestos survey entailed visually assessing accessible areas only. If any other suspect asbestos materials are discovered during demolition or renovation, please contact SCI, and we will make arrangements for assessment of these materials. Areas behind walls, under subfloors and above fixed ceilings are considered non-accessible.

If this report is to be used for bidding purposes for asbestos abatement, SCI recommends the contractor visit the site to verify all conditions and quantities.

SCI appreciates the opportunity to be of service to you on this project, and we look forward to working with you in the future. Please contact us if you have any questions or comments regarding the information provided.

Respectfully,

SCI ENGINEERING, INC.

Jessica Keeven

Jessica B. Keeven
Missouri State Certified Asbestos Inspector
Certificate Number 7011031809MOIR11683

Trey Coad

Trey Coad, CHMM
Vice President

Brian Lieb

Brian L. Lieb
Staff Scientist

ZSU/BLL/TLC/rah

Enclosure

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STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

ASBESTOS NESHAP NOTIFICATION OF DEMOLITION AND RENOVATION

OPERATOR PROJECT NO.	POSTMARK	DATE RECEIVED	NOTIFICATION NUMBER

I. TYPE OF NOTIFICATION

☒ O – ORIGINAL ☐ C – CANCELLED ☐ R – REVISION, WRITE REVISION NUMBER _____

II. FACILITY INFORMATION (IDENTIFY OWNER, REMOVAL CONTRACTOR, AND OTHER OPERATOR)

OWNER NAME	ADDRESS		
CITY	COUNTY	STATE	ZIP CODE
CONTACT		TELEPHONE NUMBER	

ASBESTOS REMOVAL CONTRACTOR	ADDRESS		
CITY		STATE	ZIP CODE
CONTACT	TELEPHONE NUMBER	TITLE	

DEMOLITION CONTRACTOR	ADDRESS		
CITY		STATE	ZIP CODE
CONTACT	TELEPHONE NUMBER	TITLE	

III. TYPE OF OPERATION

☐ D - DEMO ☐ O – ORDERED DEMO ☐ R – RENOVATION ☐ E – EMERGENCY RENOVATION

IV. IS ASBESTOS PRESENT	LIST TYPE OF ASBESTOS MATERIAL(S) TO BE REMOVED
☒ YES ☐ NO	Pipe insulation, transite panels, ceiling texture

V. FACILITY DESCRIPTION (INCLUDE BUILDING NAME, NUMBER AND FLOOR OR ROOM NUMBER)

BUILDING NAME
Building 1029

ADDRESS
Fort Leonard Wood

CITY	COUNTY	STATE	ZIP CODE
Fort Leonard Wood		MO	

SITE LOCATION
Fort Leonard Wood

BUILDING SIZE	NUMBER OF FLOORS	AGE IN YEARS
13,500 sf	3	

PRESENT USE	PRIOR USE
Dormitory	

VI. PROCEDURE, INCLUDING ANALYTICAL METHOD, IF APPROPRIATE, USED TO DETECT THE PRESENCE OF ASBESTOS MATERIAL. INCLUDE A COPY OF THE ASBESTOS INSPECTION.

Inspection with analysis by Polarized Light Microscopy (PLM)

VII. APPROXIMATE AMOUNT OF ASBESTOS, INCLUDING: **1. REGULATED ACM (RACM)** **2. CATEGORY I ACM** **3. CATEGORY II ACM**	**RACM TO BE REMOVED**	**NONFRIABLE ASBESTOS MATERIAL TO BE REMOVED**		**NONFRIABLE ASBESTOS MATERIAL NOT TO BE REMOVED**	
		CAT I	**CAT II**	**CAT I**	**CAT II**
PIPES (LINEAR FEET)					
SURFACE AREA (SQUARE FEET)					
VOL. RACM OFF FACILITY COMPONENT (CUBIC FEET)					

VIII. SCHEDULED DATES DEMO/RENOVATION (MM/DD/YY) START: COMPLETE:		
IX. SCHEDULED DATES ASBESTOS REMOVAL (MM/DD/YY) START: COMPLETE:	WEEKDAYS WORK HOURS	WEEKEND WORK HOURS
X. DESCRIPTION OF PLANNED DEMOLITION OR RENOVATION WORK, AND METHOD(S) TO BE USED		
XI. DESCRIPTION OF WORK PRACTICES AND ENGINEERING CONTROLS TO BE USED TO PREVENT EMISSIONS OF ASBESTOS AT THE DEMOLITION AND RENOVATION SITE.		

XII. WASTE TRANSPORTER

ADDRESS		
CITY	STATE	ZIP CODE
CONTACT PERSON	TELEPHONE NUMBER	

XIII. WASTE DISPOSAL SITE

NAME		
LOCATION		
CITY	STATE	ZIP CODE
TELEPHONE NUMBER		

XIV. IF DEMOLITION ORDERED BY A GOVERNMENT AGENCY, PLEASE IDENTIFY THE AGENCY BELOW

NAME	TITLE
AUTHORITY	
DATE OF ORDER (MM/DD/YY) INCLUDE A COPY OF THE ORDER.	DATE ORDERED TO BEGIN (MM/DD/YY)

XV. FOR EMERGENCY RENOVATIONS

A. DATE AND HOUR OF EMERGENCY (MM/DD/YY)
B. DESCRIPTION OF THE SUDDEN, UNEXPECTED EVENT
C. EXPLANATION OF HOW THE EVENT CAUSED UNSAFE CONDITIONS OR WOULD CAUSE EQUIPMENT DAMAGE OR AN UNREASONABLE FINANCIAL BURDEN
XVI. DESCRIPTION OF PROCEDURES TO BE FOLLOWED IN THE EVENT THAT UNEXPECTED ASBESTOS IS FOUND OR PREVIOUSLY NONFRIABLE ASBESTOS MATERIAL BECOMES CRUMBLED, PULVERIZED, OR REDUCED TO POWDER. Stop work and contact a licensed inspector.
XVII. I certify that an individual trained in the provisions of this regulation (40 CFR Part 61, Subpart M) will be on-site during the demolition or renovation and evidence that the required training has been accomplished by this person will be available for inspection during normal business hours (required 1 year after promulgation).

SIGNATURE OF OWNER/OPERATOR	DATE
XVIII. I Certify that the above information is correct.	
SIGNATURE OF OWNER/OPERATOR	DATE

PRECISION ANALYSIS, INC.

BULK SAMPLE ANALYSIS

Client: SCI Engineering, Inc. - St. Charles
Project No.: 2017-7007.25
Project Name: FLW Building 1029 Renovation

Date Received: 02-14-17
Date Reported: 02-17-17

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
308542	1a	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		None Detected in Mastic		Black Tar Binders
309164	1b	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		None Detected in Mastic		Black Tar Binders
309165	1c	5-10% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
		None Detected in Mastic		Black Tar Binders
308543	2a	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
308544	2b	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
308545	2c	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders

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

22 ORVIETO COURT FLORISSANT, MISSOURI 63031 TEL./FAX (314) 838-5052

PRECISION ANALYSIS, INC.

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Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
308546	3a	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
308547	3b	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
308548	3c	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
308549	4a	None Detected		Binders, Vinyl
308550	4b	None Detected		Binders, Vinyl
308551	4c	None Detected		Binders, Vinyl
308552	5a	5-10% Chrysotile	Glass Wool	Binders, Paint
308553	5b	None Detected	Cellulose, Glass Wool	Binders, Paint, Black Tar Binders, Aluminum
308554	5c	5-10% Chrysotile	Glass Wool	Binders, Paint

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Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
308555	6a Drywall	None Detected	Cellulose, Glass Wool	Binders
	Joint Compound	None Detected		Binders, Paint, Mica
308556	6b Drywall	None Detected	Cellulose, Glass Wool	Binders
	Joint Compound	None Detected		Binders, Paint, Mica
308557	6c Drywall	None Detected	Cellulose, Glass Wool	Binders
	Joint Compound	None Detected		Binders, Paint, Mica
308558	7a	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
308559	7b	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
308560	7c	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders

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Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
308561	8a	None Detected	Glass Wool	Binders, Paint, Mica
308562	8b	None Detected	Glass Wool	Binders, Paint, Mica
308563	8c	None Detected	Glass Wool	Binders, Paint, Mica
308564	9a	None Detected		Binders, Vinyl, Aggregate
		None Detected in Tan Mastic		Binders
		None Detected in Black Mastic		Black Tar Binders
308565	9b	None Detected		Binders, Vinyl, Aggregate
		None Detected in Tan Mastic		Binders
		None Detected in Black Mastic		Black Tar Binders
308566	9c	None Detected		Binders, Vinyl, Aggregate
		None Detected in Tan Mastic		Binders
		None Detected in Black Mastic		Black Tar Binders

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Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
308567	10a	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
308568	10b	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
308569	10c	None Detected		Binders, Vinyl, Aggregate
		None Detected in Mastic		Binders
308570	11a Plaster	None Detected	Glass Wool	Binders
	Paint	None Detected		Binders, Paint, Mica
308571	11b Plaster	None Detected	Glass Wool	Binders
	Paint	None Detected		Binders, Paint, Mica
308572	11c Plaster	None Detected	Glass Wool	Binders
	Paint	None Detected		Binders, Paint, Mica

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Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
308573	12a	None Detected		Binders, Vinyl, Aggregate
		None Detected in Tan Mastic		Binders
		5-10% Chrysotile in Mastic		Black Tar Binders
308574	12b	None Detected		Binders, Vinyl, Aggregate
		None Detected in Tan Mastic		Binders
		5-10% Chrysotile in Mastic		Black Tar Binders
308575	12c	None Detected		Binders, Vinyl, Aggregate
		None Detected in Tan Mastic		Binders
		5-10% Chrysotile in Mastic		Black Tar Binders
308576	13a	5-10% Chrysotile	Glass Wool	Binders, Paint, Mica
309151	13b	5-10% Chrysotile	Glass Wool	Binders, Paint, Mica
309152	13c	5-10% Chrysotile	Glass Wool	Binders, Paint, Mica
308577	14a	5-10% Chrysotile	Glass Wool	Binders, Paint, Mica

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Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
309153	14b	5-10% Chrysotile	Glass Wool	Binders, Paint, Mica
309154	14c	5-10% Chrysotile	Glass Wool	Binders, Paint, Mica
308578	15a	25-30% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
309166	15b	25-30% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
309167	15c	25-30% Chrysotile	Antigorite	Binders, Vinyl, Aggregate
308579	16a	None Detected	Cellulose, Glass Wool	Binders, Vinyl, Paint, Aluminum
308580	16b	None Detected	Cellulose, Glass Wool	Binders, Vinyl, Paint, Aluminum
308581	16c	None Detected	Cellulose, Glass Wool	Binders, Vinyl, Paint, Aluminum
308582	17a	None Detected	Glass Wool	Binders
308583	17b	None Detected	Glass Wool	Binders
308584	17c	None Detected	Glass Wool	Binders
308585	18a	None Detected		Binders, Vinyl

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Lab No.	Sample No.	Asbestos Detected & Percentage *	Fibrous Material	Non-Fibrous Material
308586	18b	None Detected		Binders, Vinyl
308587	18c	None Detected		Binders, Vinyl
308588	19a	None Detected		Binders, Vinyl, Paint
308589	19b	None Detected		Binders, Vinyl, Paint
308590	19c	None Detected		Binders, Vinyl, Paint
308591	20a	None Detected		Binders, Vinyl, Paint
308592	20b	None Detected		Binders, Vinyl, Paint
308593	20c	None Detected		Binders, Vinyl, Paint
308594	21a	None Detected		Binders, Vinyl
308595	21b	None Detected		Binders, Vinyl

* 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

Client: SCI Engineering, Inc. - St. Charles
Project No.: 2017-7007.25
Project Name: FLW Building 1029 Renovation

Date Received: 02-14-17
Date Reported: 02-17-17

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
308596	21c	None Detected		Binders, Vinyl

Paul Spell
Laboratory Director

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

PLM is not recommended for analysis of vinyl floor tile. Vinyl floor tile often contains milled asbestos with fiber lengths of 1 micrometer or less. Because these fibers are not detected by PLM, PLM analysis may yield a false negative result. We recommend qualitative analysis of vinyl floor tile by Transmission Electron Microscopy (TEM).

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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EXHIBIT C - LEAD BASED PAINT SURVEY

SCI ENGINEERING, INC.
CONSULTANTS IN DEVELOPMENT, DESIGN, AND CONSTRUCTION
GEOTECHNICAL
ENVIRONMENTAL
NATURAL RESOURCES
CULTURAL RESOURCES
CONSTRUCTION SERVICES

March 7, 2017

Mr. Ty Morris
Barr Engineering Company
1001 Diamond Ridge, Suite 1100
Jefferson City, Missouri 65109

RE: Summary of Lead-Based Paint Survey Activities
FLW Building 1029 Renovation (T1713-01)
Fort Leonard Wood, Missouri
SCI No. 2017-7007.25

Dear Mr. Morris:

INTRODUCTION

SCI Engineering, Inc. (SCI) is pleased to submit this report summarizing lead-based paint (LBP) survey activities performed on February 13, 2017. The purpose of this survey was to determine the presence of lead-based paint within Building 1029 at Fort Leonard Wood.

LEAD BASED PAINT SURVEY

X-Ray Fluorescence Testing (XRF)

This survey was performed using an XRF that can quickly and nondestructively determine the quantity of lead present in various painted coatings on interior and exterior components of the structures.

The United States Department of Housing and Urban Development and the Iowa Department of Public Health indicates that LBP is any paint, varnish, stain, or other applied coating that has one milligram per square centimeter (mg/cm^2) or 5,000 micrograms per gram (ug/g) by dry weight (0.5 percent by mass) or more of lead. Based upon a review of the XRF results, several of the paint systems analyzed had a lead content greater than 1.0 mg/cm^3.

A summary of these LPB systems is included in Table 1 below. A complete summary of the lead testing results are included.

Table 1 - LBP XRF Results – Positive Test Results

Sample Number	Sample Location	Sample Description
64	Stairwell 100	Brown metal handrail
66	Stairwell 100	Tan concrete ceiling
96	Stairwell 235	Brown metal handrail
112	Stairwell 300	Brown metal handrail

Table 1 - LBP XRF Results – Positive Test Results (continued)

Sample Number	Sample Location	Sample Description
119	Basement Mechanical Room	Gray metal door
120	Basement Mechanical Room	Green metal frame

RECOMMENDATIONS

During renovation of these areas, care should be taken not to sand, grind or abrade surfaces coated with LBPs. SCI typically recommends that any disturbance of these painted surfaces be performed by workers that are renovation, repair and paint program (RRP) trained. Furthermore, if the renovation includes stripping the paint from the components in reparation for repainting, SCI typically recommends it be done by RRP-trained workers with appropriate safety training. The paint waste should be drummed or containerized and characterized for proper disposal.

If the components are to be removed without disturbing the paint, then they can be removed and disposed as construction waste. There are no special disposal considerations in Missouri for disposal of demolition rubble from this structure as long as it is disposed in a licensed solid waste landfill.

Should you have any questions or comments regarding these results, please feel free to contact us.

Respectfully,

SCI ENGINEERING, INC.

Jessica Keeven

Jessica B. Keeven, CHMM
Missouri State Certified Lead Inspector
Certificate Number 10061-300002979

Trey Coad

Trey Coad, CHMM
Vice President

JBK/TLC/rah

Enclosure

\\scieng\shared\StCharles\shared\1soils\1NEW\PROJECT FILES\Springfield\2017 Project Files\2017-7007 13334 Artillery Circ.-Bldg. 1029 FLW\ES\FLW Bldg. 1029-LBPSurvey.doc

Sample No	Substrate	Component	Color	Side	Location	Results	Pb	Pb Error	Units	Action Level	Date
1			Calibration (Negative)			Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
2			Calibration (Positive)			Positive	1.18	0.11	mg / cm ^2	1	2/13/17
3	block	wall	tan	D	Restroom 145	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
4	ceramic	floor	tan	NA	Room 130	Negative	< LOD	0.09	mg / cm ^2	1	2/13/17
5	block	wall	off-white	D	Room 130	Negative	< LOD	0.02	mg / cm ^2	1	2/13/17
6	metal	frame	brown	D	Room 130	Negative	< LOD	0.44	mg / cm ^2	1	2/13/17
7	metal	door	brown	A	Room 130	Negative	< LOD	0.21	mg / cm ^2	1	2/13/17
8	block	baseboard	gray	A	Corridor 146	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
9	block	wall	cream	B	Room 129	Negative	< LOD	0.02	mg / cm ^2	1	2/13/17
10	metal	door	brown	D	Room 129	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
11	metal	frame	brown	C	Room 129	Negative	< LOD	0.06	mg / cm ^2	1	2/13/17
12	concrete	column	tan	D	Room 124	Negative	< LOD	0.09	mg / cm ^2	1	2/13/17
13	block	baseboard	tan	D	Room 124	Negative	< LOD	0.04	mg / cm ^2	1	2/13/17
14	concrete	column	tan	C	Room 127	Negative	< LOD	0.38	mg / cm ^2	1	2/13/17
15	block	wall	tan	C	Room 127	Negative	< LOD	0.44	mg / cm ^2	1	2/13/17
16	metal	frame	brown	D	Room 127	Negative	< LOD	0.05	mg / cm ^2	1	2/13/17
17	block	wall	tan	B	Room 125	Negative	< LOD	0.15	mg / cm ^2	1	2/13/17
18	metal	frame	brown	C	Room 125	Negative	< LOD	0.45	mg / cm ^2	1	2/13/17
19	metal	frame	brown	C	Room 126	Negative	< LOD	0.04	mg / cm ^2	1	2/13/17
20	block	wall	tan	B	Room 121	Negative	< LOD	0.05	mg / cm ^2	1	2/13/17
21	block	wall	tan	A	Room 121	Negative	< LOD	0.31	mg / cm ^2	1	2/13/17
22	drywall	wall	tan	D	Room 121	Negative	< LOD	0.04	mg / cm ^2	1	2/13/17
23	transite	window	maroon	A	Room 121	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
24	metal	radiator	tan	A	Room 121	Negative	< LOD	0.02	mg / cm ^2	1	2/13/17
25	metal	door	brown	D	Room 121	Negative	< LOD	0.01	mg / cm ^2	1	2/13/17
26	metal	frame	brown	D	Room 121	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
27	metal	radiator	brown	B	Stairwell 135	Negative	< LOD	0.12	mg / cm ^2	1	2/13/17
28	metal	door	brown	A	Stairwell 135	Negative	< LOD	0.04	mg / cm ^2	1	2/13/17
29	metal	frame	brown	A	Stairwell 135	Negative	< LOD	0.13	mg / cm ^2	1	2/13/17
30	block	wall	tan	A	Stairwell 135	Negative	< LOD	0.01	mg / cm ^2	1	2/13/17
31	metal	frame	brown	C	Stairwell 135	Negative	< LOD	0.04	mg / cm ^2	1	2/13/17
32	block	wall	tan	B	Stairwell 135	Negative	< LOD	0.07	mg / cm ^2	1	2/13/17
33	plaster	wall	tan	C	Stairwell 135	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
34	metal	handrail	brown	D	Stairwell 135	Negative	< LOD	0.01	mg / cm ^2	1	2/13/17
35	block	wall	tan	A	Stairwell 135	Negative	< LOD	0.1	mg / cm ^2	1	2/13/17

Sample No	Substrate	Component	Color	Side	Location	Results	Pb	Pb Error	Units	Action Level	Date
36	concrete	stairs	tan	B	Stairwell 135	Negative	< LOD	0.28	mg / cm ^2	1	2/13/17
37	metal	handrail	brown	B	Stairwell 135	Negative	< LOD	0.07	mg / cm ^2	1	2/13/17
38	metal	frame	brown	A	Main Entry 134	Negative	< LOD	0.05	mg / cm ^2	1	2/13/17
39	metal	door	brown	A	Main Entry 134	Negative	< LOD	0.06	mg / cm ^2	1	2/13/17
40	transite	window	maroon	C	Room 131	Negative	< LOD	0.02	mg / cm ^2	1	2/13/17
41	block	baseboard	gray	A	Room 131	Negative	< LOD	0.02	mg / cm ^2	1	2/13/17
42	wood	frame	brown	D	Corridor 129	Negative	< LOD	0.05	mg / cm ^2	1	2/13/17
43	wood	door	brown	D	Room 132	Negative	< LOD	0.72	mg / cm ^2	1	2/13/17
44	block	wall	tan	C	Room 132	Negative	< LOD	0.07	mg / cm ^2	1	2/13/17
45	concrete	wall	tan	C	Room 132	Negative	< LOD	0.06	mg / cm ^2	1	2/13/17
46	block	baseboard	gray	C	Room 132	Negative	< LOD	0.01	mg / cm ^2	1	2/13/17
47	metal	radiator	tan	C	Room 132	Negative	< LOD	0.01	mg / cm ^2	1	2/13/17
48	drywall	wall	tan	A	Room 132	Negative	< LOD	0.05	mg / cm ^2	1	2/13/17
49	drywall	wall	tan	D	Restroom 124	Negative	< LOD	0.02	mg / cm ^2	1	2/13/17
50	metal	frame	brown	B	Restroom 124	Negative	< LOD	0.02	mg / cm ^2	1	2/13/17
51	ceramic	floor	lt. brown	NA	Restroom 124	Negative	< LOD	0.06	mg / cm ^2	1	2/13/17
52	block	wall	lt. brown	C	Restroom 124	Negative	< LOD	0.04	mg / cm ^2	1	2/13/17
53	block	wall	tan	A	Laundry 123	Negative	< LOD	0.04	mg / cm ^2	1	2/13/17
54	metal	frame	brown	C	Laundry 123	Negative	< LOD	0.04	mg / cm ^2	1	2/13/17
55	metal	door	brown	C	Laundry 123	Negative	< LOD	0.06	mg / cm ^2	1	2/13/17
56	plaster	ceiling	tan	NA	Laundry 123	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
57	block	wall	tan	D	Restroom 121	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
58	plaster	ceiling	tan	NA	Restroom 121	Negative	< LOD	0.01	mg / cm ^2	1	2/13/17
59	transite	window	maroon	A	Room 112	Negative	< LOD	0.05	mg / cm ^2	1	2/13/17
60	metal	radiator	brown	B	Stairwell 100	Negative	< LOD	0.51	mg / cm ^2	1	2/13/17
61	metal	door	brown	B	Stairwell 100	Negative	< LOD	0.46	mg / cm ^2	1	2/13/17
62	metal	frame	brown	B	Stairwell 100	Negative	< LOD	0.07	mg / cm ^2	1	2/13/17
63	quarry tile	baseboard	brown	D	Stairwell 100	Negative	< LOD	0.05	mg / cm ^2	1	2/13/17
64	**metal**	**handrail**	**brown**	**D**	**Stairwell 100**	**Positive**	**4.86**	**1.5**	**mg / cm ^2**	**1**	**2/13/17**
65	concrete	stair runner	tan	D	Stairwell 100	Negative	< LOD	0.07	mg / cm ^2	1	2/13/17
66	**concrete**	**ceiling**	**tan**	**D**	**Stairwell 100**	**Positive**	**1.7**	**0.38**	**mg / cm ^2**	**1**	**2/13/17**
67	concrete	column	tan	C	Stairwell 100	Negative	< LOD	0.09	mg / cm ^2	1	2/13/17
68	wood	mailbox	tan	A	Room 213	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
69	metal	frame	brown	C	Room 212	Negative	< LOD	0.08	mg / cm ^2	1	2/13/17
70	block	wall	tan	D	Room 207	Negative	< LOD	0.08	mg / cm ^2	1	2/13/17

Sample No	Substrate	Component	Color	Side	Location	Results	Pb	Pb Error	Units	Action Level	Date
71	block	baseboard	gray	A	Room 206	Negative	< LOD	0.08	mg / cm ^2	1	2/13/17
72	metal	door	brown	C	Room 203	Negative	< LOD	0.06	mg / cm ^2	1	2/13/17
73	metal	drame	brown	C	Room 203	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
74	drywall	wall	tan	B	Lounge 217	Negative	< LOD	0.05	mg / cm ^2	1	2/13/17
75	metal	frame	brown	D	Room 200	Negative	< LOD	0.07	mg / cm ^2	1	2/13/17
76	transite	window	maroon	C	Room 200	Negative	< LOD	0.01	mg / cm ^2	1	2/13/17
77	concrete	upper wall	tan	C	Room 200	Negative	< LOD	0.04	mg / cm ^2	1	2/13/17
78	block	wall	tan	C	Room 236	Negative	< LOD	0.05	mg / cm ^2	1	2/13/17
79	block	wall	lt. brown	D	Restroom 221	Negative	< LOD	0.02	mg / cm ^2	1	2/13/17
80	metal	stall	brown	B	Restroom 221	Negative	< LOD	0.07	mg / cm ^2	1	2/13/17
81	plaster	ceiling	tan	NA	Restroom 221	Negative	< LOD	0.06	mg / cm ^2	1	2/13/17
82	block	baseboard	gray	D	Room 201	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
83	ceramic	floor	lt. brown	NA	Restroom 219	Negative	< LOD	0.08	mg / cm ^2	1	2/13/17
84	metal	frame	brown	A	Room 235	Negative	< LOD	0.01	mg / cm ^2	1	2/13/17
85	concrete	column	tan	A	Room 235	Negative	< LOD	0.05	mg / cm ^2	1	2/13/17
86	metal	door	brown	B	Supply Closet 225	Negative	< LOD	0.04	mg / cm ^2	1	2/13/17
87	metal	frame	brown	B	Supply Closet 225	Negative	< LOD	0.1	mg / cm ^2	1	2/13/17
88	block	wall	tan	A	Room 223	Negative	< LOD	0.09	mg / cm ^2	1	2/13/17
89	metal	radiator	tan	A	Room 223	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
90	metal	door	brown	C	Room 232	Negative	< LOD	0.12	mg / cm ^2	1	2/13/17
91	ceramic	tile floor	blue	NA	Room 232	Negative	< LOD	0.05	mg / cm ^2	1	2/13/17
92	metal	frame	brown	C	Room 231	Negative	< LOD	0.06	mg / cm ^2	1	2/13/17
93	block	wall	tan	A	Room 228	Negative	< LOD	0.06	mg / cm ^2	1	2/13/17
94	block	baseboard	gray	D	Room 226	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
95	concrete	column	tan	B	Stairwell 235	Negative	< LOD	0.08	mg / cm ^2	1	2/13/17
96	**metal**	**handrail**	**brown**	**A**	**Stairwell 235**	**Positive**	**5.3**	**2.49**	**mg / cm ^2**	**1**	**2/13/17**
97	concrete	stair runner	tan	B	Stairwell 235	Negative	< LOD	0.23	mg / cm ^2	1	2/13/17
98	block	wall	tan	B	Stairwell 235	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
99	metal	frame	brown	B	Room 328	Negative	< LOD	0.01	mg / cm ^2	1	2/13/17
100	concrete	column	tan	B	Room 327	Negative	< LOD	0.09	mg / cm ^2	1	2/13/17
101	metal	frame	brown	C	Room 330	Negative	< LOD	0.05	mg / cm ^2	1	2/13/17
102	metal	door	brown	C	Room 332	Negative	< LOD	0.04	mg / cm ^2	1	2/13/17
103	block	baseboard	gray	A	Corridor 346	Negative	< LOD	0.01	mg / cm ^2	1	2/13/17
104	metal	ladder	brown	D	Stairwell 335	Negative	< LOD	0.22	mg / cm ^2	1	2/13/17
105	metal	frame	brown	B	Stairwell 335	Negative	< LOD	0.43	mg / cm ^2	1	2/13/17

Sample No	Substrate	Component	Color	Side	Location	Results	Pb	Pb Error	Units	Action Level	Date
106	block	wall	tan	B	Lounge 317	Negative	< LOD	0.05	mg / cm ^2	1	2/13/17
107	transite	window	maroon	A	Lounge 317	Negative	< LOD	0.04	mg / cm ^2	1	2/13/17
108	block	wall	tan	D	Room 319	Negative	< LOD	0.02	mg / cm ^2	1	2/13/17
109	drywall	wall	tan	C	Corridor 322	Negative	< LOD	0.05	mg / cm ^2	1	2/13/17
110	block	wall	tan	D	Room 300	Negative	< LOD	0.06	mg / cm ^2	1	2/13/17
111	metal	frame	brown	A	Room 312	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
112	**metal**	**handrail**	**brown**	**A**	**Stairwell 300**	**Positive**	**4.77**	**2.33**	**mg / cm ^2**	**1**	**2/13/17**
113	block	wall	tan	C	Room 311	Negative	< LOD	0.01	mg / cm ^2	1	2/13/17
114	ceramic	floor	blue	NA	Room 302	Negative	< LOD	0.06	mg / cm ^2	1	2/13/17
115	block	wall	lt. brown	A	Room 302	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
116	metal	radiator	tan	C	Room 304	Negative	< LOD	0.01	mg / cm ^2	1	2/13/17
117	block	baseboard	gray	D	Room 305	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
118	metal	frame	brown	C	Room 308	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
119	**metal**	**door**	**gray**	**C**	**Basement Mech Rm.**	**Positive**	**1.34**	**0.15**	**mg / cm ^2**	**1**	**2/13/17**
120	**metal**	**frame**	**green**	**C**	**Basement Mech Rm.**	**Positive**	**1.33**	**0.13**	**mg / cm ^2**	**1**	**2/13/17**
121	metal	handrail	brown	C	Ext. Basement Stairs	Negative	< LOD	0.34	mg / cm ^2	1	2/13/17
122	metal	handrail	brown	C	Ext. Basement Stairs	Negative	< LOD	0.03	mg / cm ^2	1	2/13/17
123	metal	handrail	brown	C	Ext. Basement Stairs	Negative	< LOD	0.01	mg / cm ^2	1	2/13/17
124	metal	door	brown	C	Exterior Door	Negative	< LOD	0.05	mg / cm ^2	1	2/13/17
125	metal	frame	brown	C	Exterior Door	Negative	< LOD	0.12	mg / cm ^2	1	2/13/17
126	metal	handrail	brown	A	Exterior Back Door	Negative	< LOD	0.01	mg / cm ^2	1	2/13/17
127	metal	door	brown	D	Exterior Door	Negative	< LOD	0.08	mg / cm ^2	1	2/13/17
128	metal	frame	brown	A	Exterior Door	Negative	< LOD	0.14	mg / cm ^2	1	2/13/17
129			Calibration (Negative)			Negative	< LOD	0.08	mg / cm ^2	1	2/13/17
130			Calibration (Inconclusive)			Inconclusive	1	0.1	mg / cm ^2	1	2/13/17
131			Calibration (Positive)			Positive	1.19	0.1	mg / cm ^2	1	2/13/17