ADDENDUM 1 – OUTLINE AND SUMMARY INFORMATION

Project Name: Miller Pavilion Roof Recover, Bid Package #3
Location: Montana State University
PPA No.: 18-2038
Date: February 25, 2021
Owner: State of Montana
Montana State University
Bozeman, Montana

To: All Plan Holders of Record

Bidders are to acknowledge the receipt of this Addendum by inserting its number and date into their Bid Forms. Failure to do so may subject the Bidder to disqualification. This Addendum forms part of the Contract Documents as if bound therein and modifies them as follows:

I. PRIOR APPROVALS
   A. None

II. AMENDMENTS TO THE PROJECT MANUAL
   A. None

III. AMENDMENTS TO THE DRAWINGS
   A. None

IV. GENERAL INFORMATION
   A. Wood Panel Sheathing: Contractors shall remove all existing wood panel sheathing (kick panels) found on the inside of the west wall of the building. Contractors shall provide and install new wood sheathing panels (kick panels) over the new metal panel siding across the entire width of the west wall of the building. New wood sheathing panels to be 3/4" exterior treated plywood and shall be continuous in height from the bottom channel of the wall up to the first wall girt.

   1. Contractors shall include the cost of this work in the base bid.

   B. Existing Septic Tank: Contractors shall disregard the notes on the Drawings pertaining to the existing septic tank. All modifications required to this existing system will be the responsibility of the Owner. Should the Contractor be requested to provide any work associated with this system, a proposal will be requested and a change order will be executed.

V. ATTACHMENTS
   A. Pre-Renovation Asbestos Inspection Report; prepared by Tetra Tech and dated February 18, 2021
   B. Pre-Bid Conference – Meeting Notes
   C. Pre-Bid Conference Sign-In Sheet
   D. Pre-Bid Conference – Agenda and Information
February 18, 2021

Mr. Michael Bowers
Project Manager
Montana State University
P.O. Box 172760
Bozeman, Montana 59717

Delivered via email: charles.bowers1@montana.edu

**SUBJECT:** Pre-Renovation Asbestos Inspection Report
Door Replacements Project
End Walls
Bob Miller Pavilion
Bozeman, Montana
Tetra Tech Project No. 117-8598054

Dear Mr. Bowers:

On February 4, 2021, Tetra Tech, Inc. (Tetra Tech) conducted a pre-renovation asbestos inspection at the above referenced site. Based on correspondence with you prior to commencement of the project, Tetra Tech was instructed to conduct an inspection for suspect asbestos-containing materials (ACM) associated with the 2021 door replacement project associated with the end walls. Details of our inspection is provided below.

**PRE-RENOVATION ASBESTOS INSPECTION**

The pre-renovation asbestos inspection was conducted in accordance with the Administrative Rules of Montana 17.74.354, using the currently recognized standard protocol developed under the National Emission Standards for Hazardous Air Pollutants (NESHAP) and the Asbestos Hazard Emergency Response Act (AHERA), as administered by the State of Montana Department of Environmental Quality (MDEQ).

Mr. Jay Harper of Tetra Tech, MDEQ Accredited Asbestos Inspector, collected samples of suspect ACM. His Inspector Accreditation Certification is presented in Attachment A.

The bulk samples were shipped, along with completed chain-of-custody documentation, to Crisp Analytical of Carrollton, Texas for the analysis of asbestos fibers by polarized light microscopy (PLM) using U.S. Environmental Protection Agency (EPA) Methods described in 40 CFR Part 763 Appendix E Subpart E (Interim and EPA 600/R-93 / 116 (Improved). Only one of the samples from each homogenous material was tested if the initial sample tested positive for asbestos. A copy of the bulk asbestos laboratory analysis report is contained in Attachment B.

A summary of the ACMs identified to contain greater than 1% asbestos are provided in Table 1. Approximate sample collection locations are presented on Figure 1 and approximate ACM locations are presented on Figure 2.
In accordance with state and federal regulations pertaining to asbestos, the ACMs identified in Table 1 are required to be abated prior to disturbance. The ACMs are required to be removed by a licensed asbestos abatement contractor using appropriate asbestos abatement methods and procedures in accordance with applicable state and federal regulations. Following the completion of asbestos abatement, a visual inspection and asbestos air clearance need to be conducted as required by ARM 17.74.357. Any contractor preparing to bid or perform work on the site should be informed of the potential presence of ACMs. Contractors should also be informed of compliance requirements under current state and federal regulations.

The following materials sampled from the site were suspected to contain asbestos but were found not to contain asbestos by laboratory analysis:

- Off white caulking located on exterior sliding doors on both ends of the building (MSU-M8.2A, B, C)
- Concrete located on perimeter walls, interior south side floor slab, and one step by man door located on east side of the building (MSU-M18.1A, B, C)
- Yellow fiberglass insulation with white backing located on interior of perimeter walls and ceiling (MSU-32.1A, B, C)

**LIMITATIONS**

Our opinions are intended exclusively for use by the Montana State University. The scope of services performed by Tetra Tech may not be appropriate to satisfy the needs of other users, and any use or re-use of this document, or the findings presented herein is prohibited and at the sole risk of the user. No additions or deletions are permitted without the express written consent of Tetra Tech. Furthermore, the opinions presented herein are limited by the requested scope of services and the site conditions existing at the time of our investigation. Therefore, our opinions and recommendations may not apply to future site conditions which we have not had the opportunity to evaluate.
It has been a pleasure assisting you with this project. If you should have any questions or need any additional information please contact me in our Tetra Tech Billings, Montana office at (406) 248-9161.

Respectfully submitted,

Tetra Tech, Inc.

Roger W. Herman, Jr.
Roger W. Herman, Jr.
Asbestos, Lead & IH Services Manager

I:\H-M\Montana State University\117-8598054 - Bob Miller PAVILLION ASB\05-Deliverables\Final\MSU-Bob Miller Pre-Renovation Asbestos Inspection Report Positive.docx

Figures
Attachment A – Inspector Accreditation Certification
Attachment B – Bulk Asbestos Laboratory Analysis Report
PRE-RENOVATION ASBESTOS INSPECTION
SAMPLE COLLECTION LOCATIONS
MILLER LIVESTOCK PAVILION
MONTANA STATE UNIVERSITY
WEST LINCOLN STREET
BOZEMAN, MONTANA

FIGURE
1

Copyright Tetra Tech

Asbestos sample location

LEGEND

MSU-M8.2A
MSU-M8.2C
MSU-M8.2B
MSU-M18.1A
MSU-M18.1B
MSU-M18.1C
MSU-M3.1A
MSU-M3.1B
MSU-M3.1C
MSU-M32.1A
MSU-M32.1B
MSU-M32.1C
ATTACHMENT A

Inspector Accreditation Certification
JAY L HARPER

has met the requirements of Montana Administrative Rule
17.74.362 and/or 17.74.363 for accreditation in the following
asbestos occupation(s) through the specified expiration date(s).

Asbestos Inspector
Project Contractor/Supervisor

MTA-3388

02/07/2021
03/13/2021

MT DEQ Asbestos Control Program
ATTACHMENT B

Bulk Asbestos Laboratory Analysis Report
Analysis and Method

Summary of polarized light microscopy (PLM / Stereomicroscopy bulk asbestos analysis) using the methods described in 40CFR Part 763 Appendix E to Subpart E (Interim and EPA 600 / R/93 / 116 (Improved). The sample is first viewed with the aid of a stereomicroscope. Numerous liquid slide preparations are created for analysis under the polarized microscope where identifications and quantifications are performed. Calibrated liquid refractive oils are used as liquid mounting medium. These oils are used for identification (dispersion staining). A calibrated visual estimation is reported, should any asbestiform mineral be present. Other techniques such as acid washing are used in conjunction with refractive oils for detection of smaller quantities of asbestos. All asbestos percentages are based on calibrated visual estimation traceable to NIST standards for regulated asbestos. Traceability to measurement and calibration is achieved by using known amounts and types of asbestos from standards where analyst and laboratory accuracy are measured. As little as 0.001% asbestos can be detected in favorable samples, while detection in unfavorable samples may approach the detection limit of 0.50% (well above the laboratory definition of trace).

Discussion

Vermiculite containing samples may contain trace amounts of actinolite/tremolite. When not detected by PLM, these samples should be analyzed using TEM methods and / or water separation techniques. Suspected actinolite/vermiculite presence will be indicated through the sample comment section of this report.

Fibrous talc containing samples may contain a regulated asbestos fiber known as anthophyllite. Under certain conditions the same fiber may actually contain both talc and anthophyllite (a phenomenon called intergrowth). Again, TEM detection methods are recommended. CA Labs PLM report comments will denote suspected amounts of asbestiform anthophyllite with talc, where further analysis is recommended.

Some samples (floor tiles, surfacings, etc.) may contain fibers too small to be detectable by PLM analysis and should be analyzed by TEM bulk protocols.

A "trace asbestos" will be reported if the analyst observes far less than 1% asbestos. CA Labs defines "trace asbestos" as a few fibers detected by the analyst in several preparations and will indicate as such under these circumstances.

Since allowable variation in quantification of samples close to 1% is high, <1% may be reported. Such results are ideal for point counting, and the technique is mandatory for friable samples (NESHAP, Nov. 1990 and clarification letter 8 May 1991) under 1% percent asbestos or "trace asbestos". In order to make all initial PLM reports issued from CA Labs NESHAP compliant, all <1% asbestos results (except floor tiles) will be point counted at no additional charge.

Qualifications

CA Labs is accredited by the National Voluntary Accreditation Program (NVLAP) for selected test methods for airborne fiber analysis (TEM), and for bulk asbestos fiber analysis (PLM). CA Labs is also accredited by AIHA LAP, LLC. in the PLM asbestos field of testing for Industrial Hygiene. All analysts have completed college courses or hold a degree in a natural science (geology, biology, or environmental science). Recognition by a state professional board in one these disciplines is preferred, but not required. Extensive in-house training programs are used to augment the educational background of the analyst. The Laboratory Director and Quality Manager have received supplemental McCrone Research training for asbestos identification. Analysis performed at Crisp Analytical Labs, LLC 1929 Old Denton Road Carrolton, TX 75006

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235 AIHA LAP, LLC Laboratory #102929
Overview of Project Sample Material Containing Asbestos

<table>
<thead>
<tr>
<th>Customer Project:</th>
<th>Bob Miller Pavilion</th>
<th>CA Labs Project #: CAL21021181AG</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laboratory Sample ID</td>
<td>Sample #</td>
<td>Layer #</td>
</tr>
</tbody>
</table>

| 11472 | MSU-M3.1A | M3.1A-1 | Wallboard and Taping System/ white surfaced white compound | 2% Chrysotile | white surfaced white compound white compound (beneath tape) green surfaced tan caulking |
| 11472 | M3.1A-2 | | white compound (beneath tape) | 2% Chrysotile |
| 11475 | MSU-M8.1A | M8.1A-1 | Caulking/ green surfaced tan caulking | 3% Chrysotile |

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235 AIHA LAP, LLC Laboratory #102929

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

- ca - carbonate
- gypsum - gypsum
- bi - binder
- or - organic
- ma - matrix
- mica
- ve - vermiculite
- ot - other
- pe - perlite
- qu - quartz
- fg - fiberglass
- pa - palygorskite (clay)
- mw - mineral wool
- wo - wollastonite
- ta - talc
- sy - synthetic
- ce - cellulose
- br - brucite
- ka - kaolin (clay)

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, AIHA LAP, LLC, or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs’ current terms of sale, condition of sale, including the company’s standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.
Polarized Light Asbestiform Materials Characterization

Customer Info:
Tetra Tech
7100 Commercial Ave. Ste 4
Billings, MT 59101

Attn:

Customer Project:
Bob Miller Pavillion

Date:

Turnaround Time:
5 days

CA Labs Project #:
CAL21021181AG

Samples Rec’d: 2/8/21 10:30AM
Date Of Sampling: None Given

CA Labs
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
Phone 225-751-5632
Fax 225-751-5634

CA Labs
1929 Old Denton Road
Carrollton, TX 75006
Phone 972-242-2754
Fax 972-242-2798

Crisp Analytical, L.L.C.
Dedicated to Quality

Laboratory Sample ID Sample # Comment Layer # Analysts Physical Description of Subsample Homogeneous (Y/N) Asbestos type / calibrated visual estimate percent Non-asbestos fiber type / percent Non-fibrous type / percent

Wallboard and Taping System/ white surfaced white compound

11472 MSU-M3.1A

2% Chrysotile
mi,bi,ca

11472 M3.1A-2

2 white compound (beneath tape) y 2% Chrysotile
98% mi,ca

11472 M3.1A-3

white drywall with brown paper n None Detected 20% ce 80% qu,gy

Wallboard and Taping System/ white surfaced white compound

11473 MSU-M3.1B

Positive Stop

11473 M3.1B-2

white drywall with brown paper n None Detected 20% ce 80% qu,gy

Wallboard and Taping System/ white surfaced white compound

11474 MSU-M3.1C

Positive Stop

11474 M3.1C-2

white compound (beneath tape) Positive Stop

Dallas NVLAP Lab Code 200349-0 TEM/PLM TCEQ# T104704513-15-3 TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

Approved Signatories:

Tanner Rasmussen
Technical Manager

Julio Robles
Senior Analyst

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested
## Polarized Light Asbestiform Materials Characterization

### Customer Info:
**Attn:**
**Tetra Tech**  
7100 Commercial Ave. Ste 4  
Billings, MT 59101

**Phone #** 406-248-9161  
**Fax #** 406-248-9282

### Customer Project:
**Bob Miller Pavilion**  
**Date:** 2/12/2021  
**5 days**

### CA Labs Project #:
**CAL21021181AG**

### Samples Rec'd:
**2/8/21 10:30AM**

### Laboratory Samples

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Comment</th>
<th>Layer #</th>
<th>Analysts Physical Description of Subsample</th>
<th>Homogeneous (Y/N)</th>
<th>Asbestos type / calibrated visual estimate percent</th>
<th>Non-asbestos fiber type / percent</th>
<th>Non-fibrous type / percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>11474</td>
<td>M3.1C-3</td>
<td>white drywall with brown paper</td>
<td>n</td>
<td>None Detected</td>
<td>20% ce</td>
<td>80% qu, gy</td>
<td></td>
</tr>
<tr>
<td>11475</td>
<td>MSU-M8.1A</td>
<td>M8.1A-1</td>
<td>Caulking/ green surfaced tan caulking</td>
<td>n</td>
<td>3% Chrysotile</td>
<td>qu, bi, ca</td>
<td></td>
</tr>
<tr>
<td>11476</td>
<td>MSU-M8.1B</td>
<td>M8.1B-1</td>
<td>Caulking/ tan caulking</td>
<td>&amp;</td>
<td>Positive Stop</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11477</td>
<td>MSU-M8.1C</td>
<td>M8.1C-1</td>
<td>Caulking/ tan caulking</td>
<td>&amp;</td>
<td>Positive Stop</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11478</td>
<td>MSU-M8.2A</td>
<td>M8.2A-1</td>
<td>Caulk on Doors/ tan sealant</td>
<td>y</td>
<td>None Detected</td>
<td>qu, gy, bi</td>
<td></td>
</tr>
<tr>
<td>11479</td>
<td>MSU-M8.2B</td>
<td>M8.2B-1</td>
<td>Caulk on Doors/ tan sealant</td>
<td>y</td>
<td>None Detected</td>
<td>qu, gy, bi</td>
<td></td>
</tr>
<tr>
<td>11480</td>
<td>MSU-M8.2C</td>
<td>M8.2C-1</td>
<td>Caulk on Doors/ tan sealant</td>
<td>y</td>
<td>None Detected</td>
<td>qu, gy, bi</td>
<td></td>
</tr>
</tbody>
</table>

### Approval Signatories:
- **Julio Robles**  
  Analyst  
  1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers  
  2. Fire Damage no significant fiber damages affecting fibrous percentages  
  3. Actinolite in association with Vermiculite  
  4. Layer not analyzed - attached to previous positive layer and contamination is suspected  
  5. Not enough sample to analyze  

- **Tanner Rasmussen**  
  Technical Manager  
  6. Anthophyllite in association with Fibrous Talc  
  7. Contamination suspected from other building materials  
  8. Favorable scenario for water separation on vermiculite for possible analysis by another method  
  9. < 1% Result point counted positive  
  10. TEM analysis suggested

---

### Notes:
- Dallas NVLAP Lab Code 200349-0 TEM/PLM  
- TCEQ# T104704513-15-3  
- TDH 30-0235  
- AIHA LAP, LLC Laboratory #102929  
- Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
- Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.  
- Approved Signatories: Julio Robles  
  Analyst  
  Tanner Rasmussen  
  Technical Manager  
  Senior Analyst  
  Julio Robles  
 Analyst

---

**Data about the document has been extracted and organized for better readability.**
### Polarized Light Asbestiform Materials Characterization

**Customer Info:**
- **Attn:** Customer Project:
  - **Tetra Tech**
  - 7100 Commercial Ave. Ste 4
  - Billings, MT 59101
  - **Bob Miller Pavilion**
  - **CAL21021181AG**

**Laboratory Sample IDs:**

<table>
<thead>
<tr>
<th>Sample ID</th>
<th>Comment</th>
<th>Layer</th>
<th>Analysts Physical Description of Subsample</th>
<th>Homogeneity</th>
<th>Asbestos type / calibrated visual percent</th>
<th>Non-asbestos fiber type / percent</th>
<th>Non-fibrous type / percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSU-M18.1A</td>
<td>M18.1 A-1</td>
<td>concrete</td>
<td><strong>Concrete Sidewalk/Step/</strong> gray</td>
<td>y</td>
<td>None Detected</td>
<td>100% qu.ca</td>
<td></td>
</tr>
<tr>
<td>MSU-M18.1B</td>
<td>M18.1 B-1</td>
<td>concrete</td>
<td><strong>Concrete Sidewalk/Step/</strong> gray</td>
<td>y</td>
<td>None Detected</td>
<td>100% qu.ca</td>
<td></td>
</tr>
<tr>
<td>MSU-M18.1C</td>
<td>M18.1 C-1</td>
<td>concrete</td>
<td><strong>Concrete Sidewalk/Step/</strong> gray</td>
<td>y</td>
<td>None Detected</td>
<td>100% qu.ca</td>
<td></td>
</tr>
<tr>
<td>MSU-M32.1A</td>
<td>M32.1 A-1</td>
<td>Backing/ tan covering</td>
<td><strong>Fiberglass Insulation w/</strong></td>
<td>y</td>
<td>None Detected</td>
<td>100% qu.bi</td>
<td></td>
</tr>
<tr>
<td>MSU-M32.1B</td>
<td>M32.1 B-1</td>
<td>yellow insulation</td>
<td><strong>Fiberglass Insulation w/</strong></td>
<td>y</td>
<td>None Detected</td>
<td>100% qu.bi</td>
<td></td>
</tr>
</tbody>
</table>

**Dallas NVLAP Lab Code:** 200349-0 TEM/PLM

**TCEQ No.:** T104704513-15-3

**TDH No.:** TDH 30-0235

**AIHA LAP, LLC Laboratory No.:** 102929

**Analysis Method:** Interim (40 CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116).

**Preparation Method:** HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

---

**Approved Signatories:**

- Julio Robles
  - Analyst

- C. T. Ren
  - Technical Manager

---

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested
Polarized Light Asbestiform Materials Characterization

Customer Info:  
Tetra Tech  
7100 Commercial Ave. Ste 4  
Billings, MT 59101

Attn:  
Bob Miller Pavilion

Customer Project:  
CAL21021181AG

Tetra Tech  
Bob Miller Pavillion

Date:  
2/12/2021

CA Labs Project #:  
CAL21021181AG

CA Labs  
12232 Industriplex, Suite 32  
Baton Rouge, LA  70809

Phone 972-242-2754
Fax 972-242-2798

Tetra Tech  
Bob Miller Pavillion

Fax #  
406-248-9282

Crisp Analytical, L.L.C.  
1929 Old Denton Road  
Carrollton, TX  75006

Phone 972-242-2754
Fax 972-242-2798

Date Of Sampling:  
None Given

Laboratory  
Crisp Analytical, L.L.C.

Sample ID  
CA Labs  
12232 Industriplex, Suite 32  
Baton Rouge, LA  70809

Phone 972-242-2754
Fax 972-242-2798

Polarized Light Asbestiform Materials Characterization

<table>
<thead>
<tr>
<th>Laboratory Sample ID</th>
<th>Sample #</th>
<th>Comment</th>
<th>Layer</th>
<th>Analysts Physical Description of Subsample</th>
<th>Homogeneous (Y/N)</th>
<th>Asbestos type/ calibrated visual estimate percent</th>
<th>Non-asbestos fiber type/ percent</th>
<th>Non-fibrous type/ percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSU-11486</td>
<td>M32.1</td>
<td>C-1</td>
<td></td>
<td>Fiberglass Insulation w/ Backing/ tan covering</td>
<td>y</td>
<td>None Detected</td>
<td>100% qu.bi</td>
<td></td>
</tr>
<tr>
<td>v</td>
<td>M32.1</td>
<td>C-2</td>
<td></td>
<td>yellow insulation</td>
<td>y</td>
<td>None Detected</td>
<td>100% fg</td>
<td></td>
</tr>
</tbody>
</table>

Dallas NVLAP Lab Code 200349-0 TEM/PLM  
TCEQ# T104704513-15-3  
TDH 30-0235

AIHA LAP, LLC Laboratory #102929

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

carbonate - mi - mica  
gypsum - ve - vermiculite  
binder - ot - other  
organic - pe - perlite  
matrix - qu - quartz  
fiberglass - mg - mineral wool  
woolastonite - ta - talc  
 synthetic - sy - synthetic  
cellulose - br - brucite  
kaolin (clay) - pa - palygorskite (clay)

Approved Signatories:

Julio Robles  
Analyst

C.T. Rasmussen  
Technical Manager

Julio Robles  
Senior Analyst

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water separation on vermiculite for possible analysis by another method
9. < 1% Result point counted positive
10. TEM analysis suggested
<table>
<thead>
<tr>
<th>Time</th>
<th>Task Description</th>
<th>Sample Description</th>
<th>LAB ID</th>
<th>Homogeneous ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:30AM</td>
<td>Concrete Sidewalk/Step</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M18.1C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M18.1B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M18.1A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>White caulk on doors</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M18.2C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M18.2B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M18.2A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Off white caulk</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M17.1C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M17.1B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M17.1A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Off white caulk</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M3.1C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M3.1B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M3.1A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M3.1A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wallboard and rapping system</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M3.1C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M3.1B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M3.1A</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wallboard and rapping system</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M3.1C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M3.1B</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Wallboard and rapping system</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MSU-M3.1A</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ASBESTOS PLAN CHAIN OF CUSTODY
The following is a summary of the above referenced meeting:

I. PURPOSE OF MEETING
   A. Pre-Bid Conference for above referenced project. Introductions were made and Contractor information was collected.

II. ITEMS OF DISCUSSION
   A. Existing Wood Sheathing Panels – West Wall Interior
      1. Existing wood sheathing panels attached to the inside of the west wall will be removed.
      2. New wood sheathing panels (3/4" exterior treated plywood) will be installed over the new metal panel siding across the west end of the building. This will be address by addendum.
   B. Mechanical Scope of Work
      1. There are two scopes of work defined by the bidding documents with regard to mechanical.
      2. Straight ventilation improvements are the base bid (Sheet M1.1).
      3. Ventilation improvements that include heated make-up air are Alternate 1 (Sheet M1.1A).
      4. Should Alternate 1 be accepted, fence modifications will be required to provide space for the new mechanical equipment outside the building. This work will either be accomplished by the Owner or will be added to the Project by change order.
   C. Construction Schedule
      1. Contractors will be able to commence construction work on site beginning May 3, 2021.
      2. Project is to be substantially complete on or around June 30, 2021.
      3. Project is to reach final completion by July 31, 2021.
   D. Asbestos
      1. Owner stated that an asbestos inspection had been performed.
      2. The report is not complete yet, but might be done in time to include in the addendum.
      3. Inspector mentioned they might have some concern with sealant found near the top of the wall panels.
   E. Existing Septic Tank
      1. The intent is to relocate the existing septic tank slightly north so that it does not remain in front of the new overhead door location.
      2. This work will be the responsibility of the Owner. Refer to Addendum 1.

III. FUTURE ACTION ITEMS
   A. Addendum 1: Will be issued no later than Thursday, February 25, 2021.
This information is forwarded to all those who attended the meeting. If any information summarized above is not correct, complete, or is inaccurate in any way, please notify the Authorized Agent listed above.
**Pre-Bid Conference Sign-in Sheet**

**Project Name:** Miller Pavilion Roof Recover, Bid Package #3  
**Location:** Montana State University  
**PPA No.:** 18-2038 (A118 18-043B)  
**Meeting Date:** February 16, 2021

**Owner:** State of Montana  
Montana State University  
Bozeman, Montana

---

Please provide the following information:

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scott Stroh</td>
<td>Architecture 118</td>
<td>(406) 404-1777</td>
<td><a href="mailto:scott.s@arch118.com">scott.s@arch118.com</a></td>
</tr>
<tr>
<td>Curt Smit</td>
<td>Consulting Design Solutions</td>
<td>(406) 282-7082</td>
<td><a href="mailto:csmit@cdsiengineering.com">csmit@cdsiengineering.com</a></td>
</tr>
<tr>
<td>Michael Bowers</td>
<td>MSU - CPDC</td>
<td>(406) 994-7493</td>
<td><a href="mailto:charles.bowers1@montana.edu">charles.bowers1@montana.edu</a></td>
</tr>
<tr>
<td>Jason Boyer</td>
<td>PRG Commercial</td>
<td>(406) 920-1146</td>
<td><a href="mailto:jboyer@prgcommercialmt.com">jboyer@prgcommercialmt.com</a></td>
</tr>
<tr>
<td>Vern Karnath</td>
<td>Karnath Contracting, Inc.</td>
<td>(406) 287-9223</td>
<td><a href="mailto:vern@karnath-inc.com">vern@karnath-inc.com</a></td>
</tr>
<tr>
<td>Brad Wright</td>
<td>TruNorth Contractors, Inc.</td>
<td>(406) 599-4587</td>
<td><a href="mailto:bwright@trunorthcontractors.com">bwright@trunorthcontractors.com</a></td>
</tr>
</tbody>
</table>
I. SIGN-IN, COLLECT BUSINESS CARDS

II. INTRODUCTIONS

A. Architect: Scott Stroh; Architecture 118, Bozeman, Montana; (406) 404-1777; scott.s@arch118.com

B. Mechanical Engineer: Curt Smit; Consulting Design Solutions; (406) 282-7082; csmit@cdsiengineering.com

C. Owner: Michael Bowers; MSU Project Manager; (406) 994-7493; charles.bowers1@montana.edu

III. SUMMARY OF PROJECT

A. The Project will accomplish the following:

1. Replacement of existing metal wall panel siding with new metal wall panel siding on selected exterior walls.
2. Replacement of existing thermal insulation with new thermal insulation within selected exterior walls.
3. Replacement of existing exterior sliding doors with new sectional overhead doors in selected locations.
4. Installation of new mechanical ventilation systems.
5. Renovation of existing electrical systems.

B. There is one bid alternate represented in the bidding documents. It pertains to mechanical improvements.

IV. BIDDING PROCESS AND CONTRACT REQUIREMENTS

A. Refer to Invitation to Bid for bid date and location.

B. Refer to Instructions to Bidders for general bidding requirements and procedures, bonding requirements, permits and fees, substantial completion date, liquidated damages, etc.

V. QUESTIONS PERTAINING TO BIDDING DOCUMENTS

VI. MISCELLANEOUS

VII. TOUR THE PROJECT SITE

VIII. FUTURE ACTION ITEMS

A. The Architect anticipates that an addendum will be issued by February 25, 2021.