

# ADDENDUM 1 – OUTLINE AND SUMMARY INFORMATION



Project Name: Miller Pavilion Roof Recover, Bid Package #3

PPA No.: 18-2038

Location: Montana State University

Date: February 25, 2021

Owner: State of Montana

Montana State University

Bozeman, Montana

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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  $\frac{3}{4}$ " 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

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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](mailto: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**

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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.

| Table 1<br>Summary of ACM  |   |  |               |                            |
|--|---|--|---------------|----------------------------|
| HA Number  | Material Description                                    | Percent Asbestos   | Material Type | NESHAP Category            |
| MSU-M3.1   | Joint compounds associated with smooth wallboard system | Wallboard: ND<br>Joint Compound<br>Layers: 2% Chrysotile | Miscellaneous | Category II<br>Non-Friable |
| MSU-M8.1   | Off white caulking on upper, vertical, beams            | 2% Chrysotile  | Miscellaneous | Category II<br>Non-Friable |
| HA = Homogeneous Area Number, NESHAP = National Emission Standard for Hazardous Air Pollutants |   |  |               |                            |

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

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Figures

Attachment A – Inspector Accreditation Certification

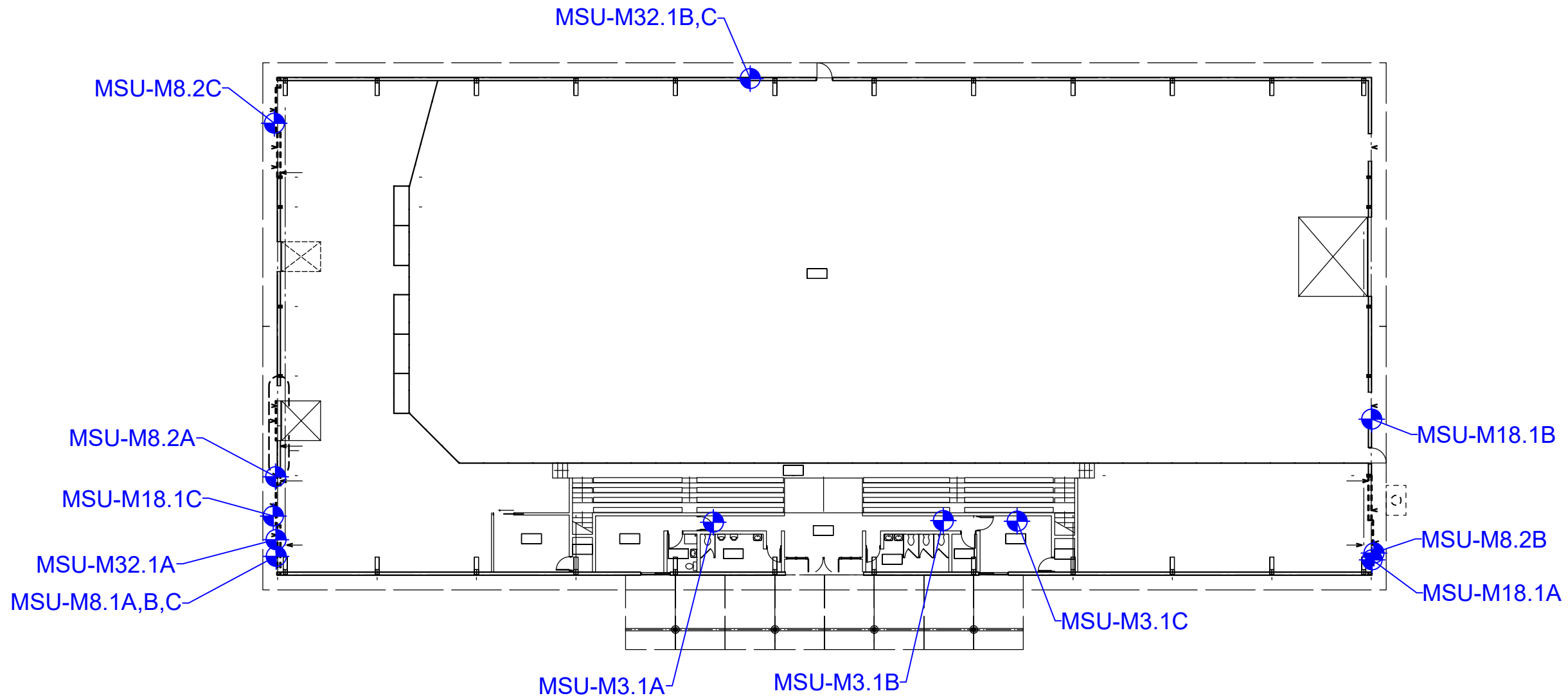
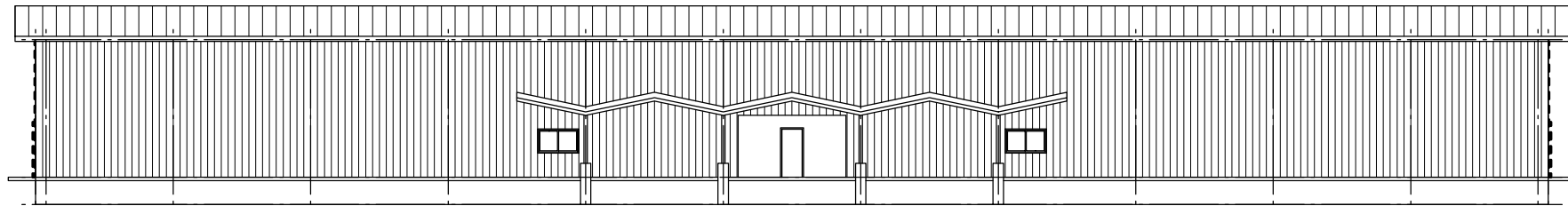
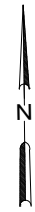
Attachment B – Bulk Asbestos Laboratory Analysis Report




TETRA TECH


## FIGURES

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**LEGEND**

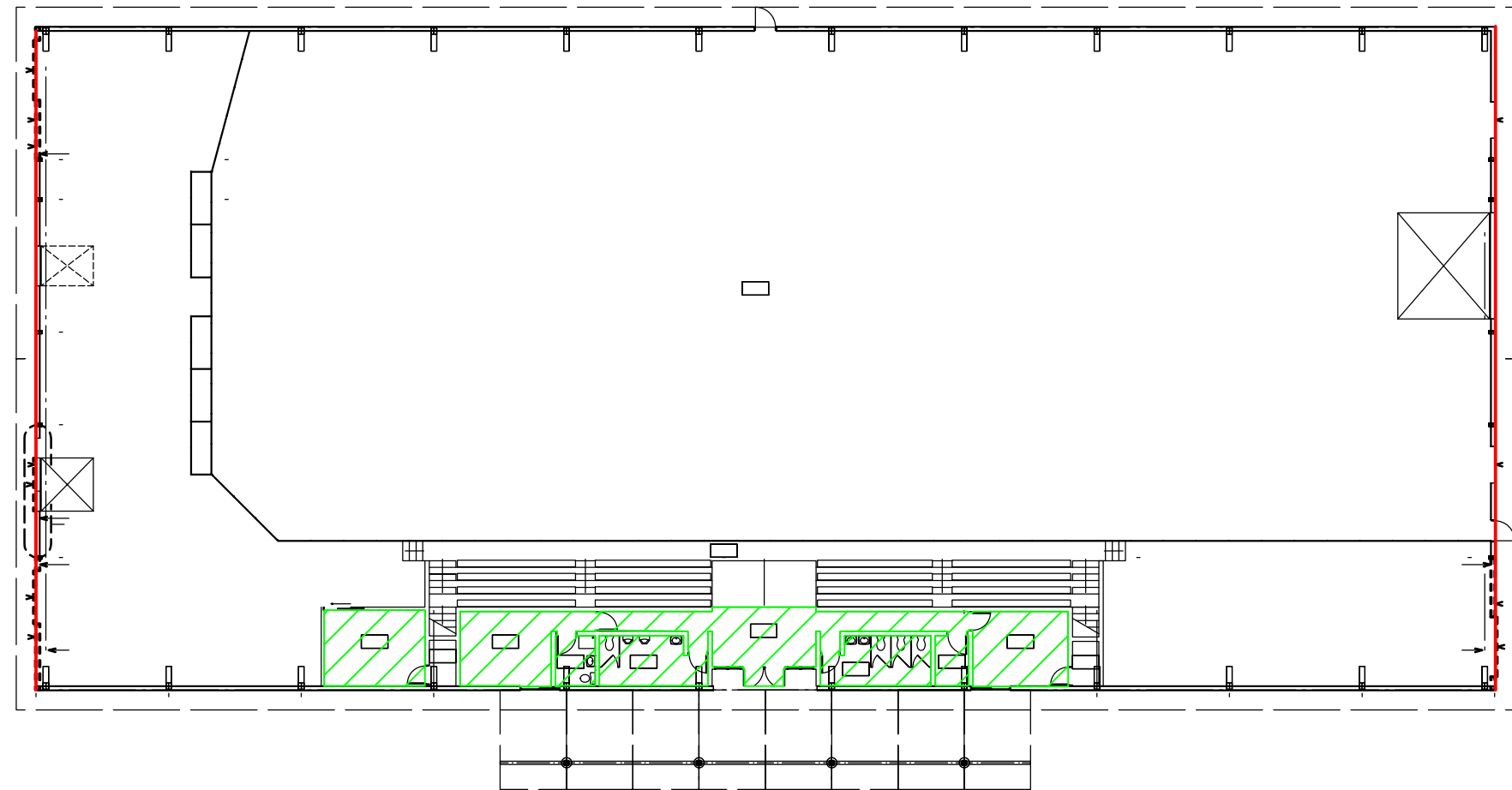
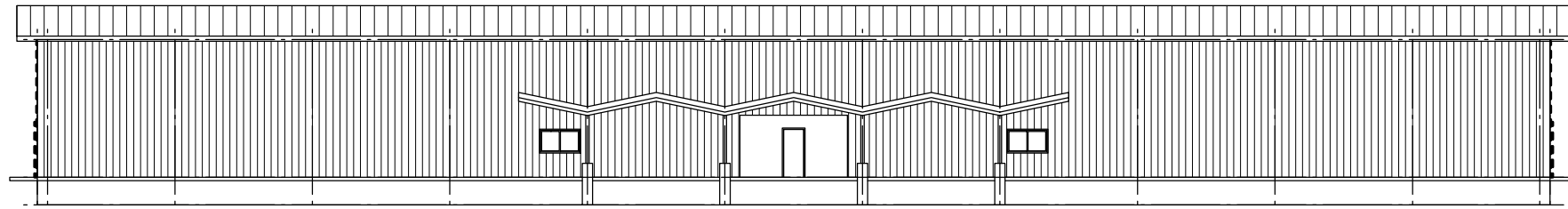
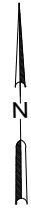
 Asbestos sample location

|   |  |  |
|---|--|--|
|  <b>TETRA TECH</b><br>www.tetrattech.com<br>7100 Commercial Ave, Suite 4<br>Billings, Montana 59101<br>PHONE: 406-248-9161 FAX: 406-248-9282 | <b>PRE-RENOVATION ASBESTOS INSPECTION</b><br>SAMPLE COLLECTION LOCATIONS<br>MILLER LIVESTOCK PAVILION<br>MONTANA STATE UNIVERSITY<br>WEST LINCOLN STREET<br>BOZEMAN, MONTANA | Project No.: 117-8598054<br>Designed By: TETRA TECH<br>Drawn By: CJM<br>Checked By: JH |
|   | <b>FIGURE</b><br><b>1</b>  |  |

Not To Scale

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**LEGEND**

— M8.1 - Off-white caulk

▨ M3.1 - Wallboard and taping system

**TETRA TECH**  
 www.tetrattech.com  
 7100 Commercial Ave, Suite 4  
 Billings, Montana 59101  
 PHONE: 406-248-9161 FAX: 406-248-9282

PRE-RENOVATION ASBESTOS INSPECTION  
 ASBESTOS LOCATIONS  
 MILLER LIVESTOCK PAVILION  
 MONTANA STATE UNIVERSITY  
 WEST LINCOLN STREET  
 BOZEMAN, MONTANA

Project No.: 117-8598054  
 Designed By: TETRA TECH  
 Drawn By: CJM  
 Checked By: JH

FIGURE  
2

Not To Scale

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## **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).

**MTA-3388**

Asbestos Inspector

02/07/2021

Project Contractor/Supervisor

03/13/2021

MT DEQ Asbestos Control Program

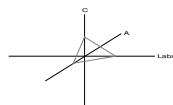


## **ATTACHMENT B**

### **Bulk Asbestos Laboratory Analysis Report**

**CA Labs**  
Dedicated to Quality

**Crisp Analytical, L.L.C.**  
1929 Old Denton Road  
Carrollton, TX 75006  
Phone 972-242-2754  
Fax 972-242-2798



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

## **Materials Characterization - Bulk Asbestos Analysis**

### **Laboratory Analysis Report - Polarized Light**

#### **Tetra Tech**

7100 Commercial Ave. Ste 4  
Billings, MT 59101

Customer Project: Bob Miller Pavillion  
Reference #: CAL21021181AG Date: 02/12/21

#### **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 Carrollton, 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

| <b>Customer Project:</b> |           |         | Bob Miller Pavillion  | <b>CA Labs Project #:</b> CAL21021181AG            |  |  |
|--------------------------|-----------|---------|---|--|--|--|
| Laboratory Sample ID     | Sample #  | Layer # | Analysts Physical Description of Subsample                        | Asbestos type / calibrated visual estimate percent | List of Affected Building Material Types   |  |
| 11472                    | MSU-M3.1A | M3.1A-1 | <b>Wallboard and Taping System/ white surfaced white compound</b> | <b>2% Chrysotile</b>                               | <b>white surfaced white compound white compound (beneath tape) green surfaced tan caulking</b> |  |
| 11472                    |           | M3.1A-2 | white compound (beneath tape)                                     | <b>2% Chrysotile</b>                               |  |  |
| 11475                    | MSU-M8.1A | M8.1A-1 | <b>Caulking/ green surfaced tan caulking</b>                      | <b>3% Chrysotile</b>                               |  |  |

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   | pe - perlite | fg - fiberglass    | pa - palygorskite (clay) |
| gypsum - gypsum  | qu - quartz  | mw - mineral wool  |                          |
| bi - binder      |              | wo - wollastinite  |                          |
| or - organic     |              | ta - talc          |                          |
| ma - matrix      |              | sy - synthetic     |                          |
| mi - mica        |              | ce - cellulose     |                          |
| ve - vermiculite |              | br - brucite       |                          |
| ot - other       |              | 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 and 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**

|  |              |  |  |
|--|--------------|--|--|
| <b>Customer Info:</b><br><b>Tetra Tech</b><br>7100 Commercial Ave. Ste 4<br>Billings, MT 59101 | <b>Attn:</b> | <b>Customer Project:</b><br>Bob Miller Pavillion | <b>CA Labs Project #:</b><br>CAL21021181AG |
| Phone # 406-248-9161   |              | <b>Turnaround Time:</b><br>5 days                | <b>Date:</b> 2/12/2021                     |
| Fax # 406-248-9282   |              |  | <b>Samples Rec'd:</b> 2/8/21 10:30AM       |
|  |              |  | <b>Date Of Sampling:</b> None Given        |
|  |              |  | <b>Purchase Order #:</b>                   |

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

|       |           |  |         |   |   |                      |  |              |
|-------|-----------|--|---------|---|---|----------------------|--|--------------|
| 11472 | MSU-M3.1A |  | M3.1A-1 | <b>Wallboard and Taping System/ white surfaced white compound</b> | n | <b>2% Chrysotile</b> |  | 98% mi,bi,ca |
|-------|-----------|--|---------|---|---|----------------------|--|--------------|

|       |  |  |         |                               |   |                      |  |           |
|-------|--|--|---------|-------------------------------|---|----------------------|--|-----------|
| 11472 |  |  | M3.1A-2 | white compound (beneath tape) | y | <b>2% Chrysotile</b> |  | 98% mi,ca |
|-------|--|--|---------|-------------------------------|---|----------------------|--|-----------|

|       |  |  |         |                                |   |                      |        |           |
|-------|--|--|---------|--------------------------------|---|----------------------|--------|-----------|
| 11472 |  |  | M3.1A-3 | white drywall with brown paper | n | <b>None Detected</b> | 20% ce | 80% qu.gy |
|-------|--|--|---------|--------------------------------|---|----------------------|--------|-----------|

|       |           |  |         |   |  |                      |  |  |
|-------|-----------|--|---------|---|--|----------------------|--|--|
| 11473 | MSU-M3.1B |  | M3.1B-1 | <b>Wallboard and Taping System/ white surfaced white compound</b> |  | <b>Positive Stop</b> |  |  |
|-------|-----------|--|---------|---|--|----------------------|--|--|

|       |  |  |         |                                |   |                      |        |           |
|-------|--|--|---------|--------------------------------|---|----------------------|--------|-----------|
| 11473 |  |  | M3.1B-2 | white drywall with brown paper | n | <b>None Detected</b> | 20% ce | 80% qu.gy |
|-------|--|--|---------|--------------------------------|---|----------------------|--------|-----------|

|       |           |  |         |   |  |                      |  |  |
|-------|-----------|--|---------|---|--|----------------------|--|--|
| 11474 | MSU-M3.1C |  | M3.1C-1 | <b>Wallboard and Taping System/ white surfaced white compound</b> |  | <b>Positive Stop</b> |  |  |
|-------|-----------|--|---------|---|--|----------------------|--|--|

|       |  |  |         |                               |  |                      |  |  |
|-------|--|--|---------|-------------------------------|--|----------------------|--|--|
| 11474 |  |  | M3.1C-2 | white compound (beneath tape) |  | <b>Positive Stop</b> |  |  |
|-------|--|--|---------|-------------------------------|--|----------------------|--|--|


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

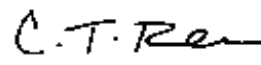
**AIHA LAP, LLC Laboratory #102929**

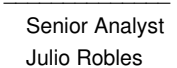
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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

Approved Signatories:

  
Julio Robles  
Analyst

  
Technical Manager  
Tanner Rasmussen

  
Senior Analyst  
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting 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

|  |                      |   |   |
|--|----------------------|---|---|
| <b>Customer Info:</b><br><b>Tetra Tech</b><br>7100 Commercial Ave. Ste 4<br>Billings, MT 59101 | <b>Attn:</b><br><br> | <b>Customer Project:</b><br>Bob Miller Pavillion<br><b>Turnaround Time:</b><br>5 days | <b>CA Labs Project #:</b><br>CAL21021181AG<br><br><b>Date:</b> 2/12/2021<br><b>Samples Rec'd:</b> 2/8/21 10:30AM<br><b>Date Of Sampling:</b> None Given<br><b>Purchase Order #:</b> |
| Phone # 406-248-9161   |                      |   |   |
| Fax # 406-248-9282   |                      |   |   |

| Laboratory Sample ID | Sample #  | Com ment | Layer # | Analysts Physical Description of Subsample   | Homo-geneo us (Y/N) | Asbestos type / calibrated visual estimate percent | Non-asbestos fiber type / percent | Non-fibrous type / percent |
|----------------------|-----------|----------|---------|--|---------------------|--|-----------------------------------|----------------------------|
| 11474                |           |          | M3.1C-3 | white drywall with brown paper               | n                   | <b>None Detected</b>                               | 20% ce                            | 80% qu,gy                  |
| 11475                | MSU-M8.1A |          | M8.1A-1 | <b>Caulking/ green surfaced tan caulking</b> | n                   | <b>3% Chrysotile</b>                               |                                   | 97% qu,bi,ca               |
| 11476                | MSU-M8.1B |          | M8.1B-1 | <b>Caulking/ tan caulking</b>                |                     | <b>Positive Stop</b>                               |                                   |                            |
| 11477                | MSU-M8.1C |          | M8.1C-1 | <b>Caulking/ tan caulking</b>                |                     | <b>Positive Stop</b>                               |                                   |                            |
| 11478                | MSU-M8.2A |          | M8.2A-1 | <b>Caulk on Doors/ tan sealant</b>           | y                   | <b>None Detected</b>                               |                                   | 100% qu,gy,bi              |
| 11479                | MSU-M8.2B |          | M8.2B-1 | <b>Caulk on Doors/ tan sealant</b>           | y                   | <b>None Detected</b>                               |                                   | 100% qu,gy,bi              |
| 11480                | MSU-M8.2C |          | M8.2C-1 | <b>Caulk on Doors/ tan sealant</b>           | y                   | <b>None Detected</b>                               |                                   | 100% qu,gy,bi              |

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

### AIHA LAP, LLC Laboratory #102929

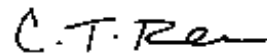
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Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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

Approved Signatories:



Julio Robles  
Analyst



Technical Manager  
Tanner Rasmussen

Senior Analyst  
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
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**Polarized Light Asbestiform Materials Characterization**

|  |              |  |  |
|--|--------------|--|--|
| <b>Customer Info:</b><br><b>Tetra Tech</b><br>7100 Commercial Ave. Ste 4<br>Billings, MT 59101 | <b>Attn:</b> | <b>Customer Project:</b><br>Bob Miller Pavillion | <b>CA Labs Project #:</b><br>CAL21021181AG |
| Phone # 406-248-9161   |              | <b>Turnaround Time:</b><br>5 days                | <b>Date:</b> 2/12/2021                     |
| Fax # 406-248-9282   |              |  | <b>Samples Rec'd:</b> 2/8/21 10:30AM       |
|  |              |  | <b>Date Of Sampling:</b> None Given        |
|  |              |  | <b>Purchase Order #:</b>                   |

| Laboratory Sample ID | Sample #   | Com ment  | Layer # | Analysts Physical Description of Subsample     | Homogeneous (Y/N) | Asbestos type / calibrated visual estimate percent | Non-asbestos fiber type / percent | Non-fibrous type / percent |
|----------------------|------------|-----------|---------|--|-------------------|--|-----------------------------------|----------------------------|
| 11481                | MSU-M18.1A | M18.1 A-1 |         | Concrete Sidewalk/Step/ gray concrete          | y                 | None Detected                                      |                                   | 100% qu,ca                 |
| 11482                | MSU-M18.1B | M18.1 B-1 |         | Concrete Sidewalk/Step/ gray concrete          | y                 | None Detected                                      |                                   | 100% qu,ca                 |
| 11483                | MSU-M18.1C | M18.1 C-1 |         | Concrete Sidewalk/Step/ gray concrete          | y                 | None Detected                                      |                                   | 100% qu,ca                 |
| 11484                | MSU-M32.1A | M32.1 A-1 |         | Fiberglass Insulation w/ Backing/ tan covering | y                 | None Detected                                      |                                   | 100% qu,bi                 |
| 11484                |            | M32.1 A-2 |         | yellow insulation                              | y                 | None Detected                                      | 100% fg                           |                            |
| 11485                | MSU-M32.1B | M32.1 B-1 |         | Fiberglass Insulation w/ Backing/ tan covering | y                 | None Detected                                      |                                   | 100% qu,bi                 |
| 11485                |            | M32.1 B-2 |         | yellow insulation                              | y                 | None Detected                                      | 100% fg                           |                            |


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

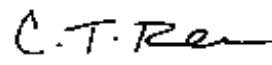
**AIHA LAP, LLC Laboratory #102929**

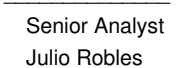
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion attaining / becke line method.

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

Approved Signatories:

  
Julio Robles  
Analyst

  
Technical Manager  
Tanner Rasmussen

  
Senior Analyst  
Julio Robles

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damages effecting 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**

|  |              |  |  |
|--|--------------|--|--|
| <b>Customer Info:</b><br><b>Tetra Tech</b><br>7100 Commercial Ave. Ste 4<br>Billings, MT 59101 | <b>Attn:</b> | <b>Customer Project:</b><br>Bob Miller Pavillion | <b>CA Labs Project #:</b><br>CAL21021181AG |
| Phone # 406-248-9161   |              | <b>Turnaround Time:</b><br>5 days                | <b>Date:</b> 2/12/2021                     |
| Fax # 406-248-9282   |              |  | <b>Samples Rec'd:</b> 2/8/21 10:30AM       |
|  |              |  | <b>Date Of Sampling:</b> None Given        |
|  |              |  | <b>Purchase Order #:</b>                   |

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


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

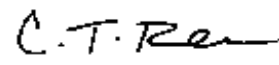
**AIHA LAP, LLC Laboratory #102929**

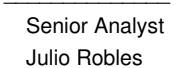
Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116). All samples received in good condition unless noted.  
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|                |                  |                   |                          |
|----------------|------------------|-------------------|--------------------------|
| ca - carbonate | mi - mica        | fg - fiberglass   | ce - cellulose           |
| gy - gypsum    | ve - vermiculite | mw - mineral wool | br - brucite             |
| bi - binder    | ot - other       | wo - wollastonite | ka - kaolin (clay)       |
| or - organic   | pe - perlite     | ta - talc         | pa - palygorskite (clay) |
| ma - matrix    | qu - quartz      | sy - synthetic    |                          |

Approved Signatories:

  
Julio Robles  
Analyst

  
Technical Manager  
Tanner Rasmussen

  
Senior Analyst  
Julio Robles

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8. Favorable scenario for water separation on vermiculite for possible analysis by another method
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10. TEM analysis suggested



TETRA TECH

7100 Commercial Ave, Suite 4  
Billings, Montana 59101  
Phone: 406.248.9161 Fax 406.248.9282

AL 20021181

### ASBESTOS PLM CHAIN OF CUSTODY

#### CONTACT INFORMATION

Company: Tetra Tech, Inc. Phone: 406.248.9161  
 Primary Contact: Roger W. Herman, Jr. Phone / Email: Direct - 406.384.0297 cell - 406.670.4844  
roger.herman@tetratech.com  
 Additional Contact: Paydn Borland Phone / Email: Cell - 406.598.2758  
paydn.borland@tetratech.com  
 Sampler Name(s) (print): Paydn Borland Sampler Signature(s): *Paydn Borland*

#### PROJECT INFORMATION

Client: Montana State University Project Name: Bob Miller Pavilion  
 Project Location: Bozeman, Montana Project Number: \_\_\_\_\_

#### PLM INSTRUCTIONS

- PLM EPA 600/R-93/116
- PLM Point Count, PC 400 Points (All samples greater than 0%, but less than 1%)
- Multi-Layered Samples:
  - Analyze and Report All Separable Layers per EPA 600  Report Composite for Drywall System per NESHAP (where applicable)  Only Analyze specifically noted layer
  - Analyze Until Positive Stop: Positive Stop by Material Type as Noted

#### TURNAROUND TIME

|                                 |   |                                |                                |                                |                                   |  |                    |             |  |
|---------------------------------|---|--------------------------------|--------------------------------|--------------------------------|-----------------------------------|--|--------------------|-------------|--|
| <input type="checkbox"/> 10 Day | <input checked="" type="checkbox"/> 5 Day | <input type="checkbox"/> 3 Day | <input type="checkbox"/> 2 Day | <input type="checkbox"/> 1 Day | <input type="checkbox"/> Same Day | <input type="checkbox"/> RUSH, Results by: _____ | Received By        | Date & Time |  |
| Relinquished By                 |   |                                |                                |                                |                                   | Date & Time                                      |                    |             |  |
| Paydn Borland                   |   |                                |                                |                                |                                   | 2-4-21/1400                                      | FEDEX              |             |  |
|                                 |   |                                |                                |                                |                                   | VIA  |                    |             |  |
|                                 |   |                                |                                |                                |                                   |  | Received By        | Date & Time |  |
|                                 |   |                                |                                |                                |                                   |  | <i>[Signature]</i> | FEB 08 2021 |  |



TETRA TECH

7100 Commercial Avenue Suite 4  
Billings, Montana 59101  
Phone: 406.248.9161 Fax 406.248.9282

CAL21021151

### ASBESTOS PLM CHAIN OF CUSTODY

| HOMOGENEOUS ID | LAB ID | SAMPLE DESCRIPTION          | NOTES       |
|----------------|--------|-----------------------------|-------------|
| MSU-M3.1A ✓    |        | Wallboard and taping system |             |
| MSU-M3.1B ✓    |        | Wallboard and taping system |             |
| MSU-M3.1C ✓    |        | Wallboard and taping system |             |
| MSU-M8.1A ✓    |        | Off white caulk             |             |
| MSU-M8.1B ✓    |        | Off white caulk             |             |
| MSU-M8.1C ✓    |        | Off white caulk             |             |
| MSU-M8.2A ✓    |        | White caulk on doors        |             |
| MSU-M8.2B ✓    |        | White caulk on doors        |             |
| MSU-M8.2C ✓    |        | White caulk on doors        |             |
| MSU-M18.1A ✓   |        | Concrete sidewalk/step      |             |
| MSU-M18.1B ✓   |        | Concrete sidewalk/step      |             |
| MSU-M18.1C ✓   |        | Concrete sidewalk/step      | 10:30AM<br> |

FEB 08 2021



**TETRA TECH**

7100 Commercial Avenue Suite 4  
 Billings, Montana 59101  
 Phone: 406.248.9161 Fax 406.248.9282

*Handwritten notes:*  
 CAT 2110  
 CAT 21081181  
 5-21  
 [Signature]

**ASBESTOS PLM CHAIN OF CUSTODY**

| HOMOGENEOUS ID | LAB ID | SAMPLE DESCRIPTION                              | NOTES                  |
|----------------|--------|---|------------------------|
| MSU-M32.1A ✓   |        | Yellow fiberglass insulation with white backing |                        |
| MSU-M32.1B ✓   |        | Yellow fiberglass insulation with white backing |                        |
| MSU-M32.1C ✓   |        | Yellow fiberglass insulation with white backing |                        |
|                |        |   |                        |
|                |        |   |                        |
|                |        |   |                        |
|                |        |   |                        |
|                |        |   |                        |
|                |        |   |                        |
|                |        |   |                        |
|                |        |   |                        |
|                |        |   |                        |
|                |        |   |                        |
|                |        |   | 10:30AM<br>FEB 08 2021 |

# PRE-BID CONFERENCE - MEETING NOTES



Project Name: Miller Pavilion Roof Recover, Bid Package #3 PPA No.: 18-2038 (A118 18-043)  
Location: Montana State University Meeting Date: February 16, 2021  
Owner: State of Montana  
Montana State University  
Bozeman, Montana  
Attending: Refer to Pre-Bid Conference Sign-In Sheet

---

*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.

Architecture 118

RECORDED BY (ARCHITECT)

Scott Stroh

AUTHORIZED AGENT

Feb. 17, 2021

DATE

*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 – AGENDA AND INFORMATION



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

---

---

## 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@cdsengineering.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.