Addendum No.1
Issued: 09/16/2020

Spokane HERB Building Cooling Tower Replacement
Washington State University
Spokane, WA

Project No.1152-2020
Washington State University
Facilities Services, Capital
Addendum No. 1  
Issued: 09/16/2020  

Spokane HERB Building Cooling Tower Replacement  
Washington State University  
Spokane, WA  

Bid Date: September 24, 2020  

1. This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated August 27, 2020, and any prior addenda, as noted below.  

2. Please acknowledge receipt of this addendum on the Form of Proposal.  

This Addendum consists of fifty-seven total pages including the following Attachments:  

<table>
<thead>
<tr>
<th>Attachments</th>
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<tr>
<td>Pre-Bid Meeting 9/10/20: Agenda/ Meeting Minutes</td>
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<tr>
<td>Pre-Bid Meeting 9/10/20: List of Attendees</td>
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<td>Section 00 01 10 - Table of Contents</td>
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<td>Section 00 42 00 - Form of Proposal</td>
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<td>Attachment A: Limited Asbestos Survey Report</td>
</tr>
<tr>
<td>Photograph Log &amp; Images</td>
</tr>
<tr>
<td>Project Video – Separate Attachment to the Addendum (not in overall page count)</td>
</tr>
</tbody>
</table>

Changes to prior Addenda:  
N/A  

Changes to Bidding Requirements:  

1-1. SECTION 00 11 13 – Advertisement for Bids  

Item 1. Replace “Bids will be received prior to 2:00 p.m.; Tuesday, September 22, 2020.”  

Make read “Bids will be received prior to 2:00 p.m.; Thursday, September 24, 2020.”  

Item 2. ADD Alternate No.2;  

“Alternate 2: shall include all Direct Digital Control work for the project excluded in the Base Bid, as indicated above. Contractor will be responsible for providing and installing all hardware outlined in Section 23 09 23 including, but not limited to Valve Actuators, Water Flow Meter, Control Valves, Controllers, Variable Frequency Drives and General Components. Contractor shall participate in
Start-Up, Calibration, Testing and Demonstration and the 96-Hour Test Run during programming and startup with the Owner. No additional working days shall be added to the Contract Time for this Alternate.”

1-2. SECTION 00 42 13 – Form of Proposal

Item 1. Delete section in its entirety, replace with attached section dated 9/16/2020.

Changes to Specifications:

SP 1-1. SECTION 00 01 10 – Table of Contents

Item 1. Delete section in its entirety, replace with attached section dated 9/16/2020.

SP 1-2. SECTION 00 50 00 – Agreement between Owner and Contractor

Item 1. Replace paragraph 5.2 with the following:
Alternates. The Contract Sum is based upon the following alternates, if any, which are described in the Contract Documents and are hereby accepted by Owner:

<table>
<thead>
<tr>
<th>Alternate No.</th>
<th>Description</th>
<th>Price ($0.00)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>The installation of all equipment, piping and support pads associated with the sidestream separator and basin sweeper systems.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Shall include all Direct Digital Control work for the project excluded in the Base Bid, as indicated above. Contractor will be responsible for providing and installing all hardware outlined in Section 23 09 23 including, but not limited to Valve Actuators, Water Flow Meter, Control Valves, Controllers, Variable Frequency Drives and General Components. Contractor shall participate in Start-Up, Calibration, Testing and Demonstration and the 96-Hour Test Run during programming and startup with the Owner. No additional working days shall be added to the Contract Time for this Alternate.</td>
<td></td>
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</tbody>
</table>
SP 1-3. SECTION 01 11 00 – Summary of Work

Item 1. Part 1, Article 1.02, Paragraph A, ADD:
“2. Alternate No.2: Shall include all Direct Digital Control work for the project excluded in the Base Bid, as indicated above. Contractor will be responsible for providing and installing all hardware outlined in Section 23 09 23 including, but not limited to Valve Actuators, Water Flow Meter, Control Valves, Controllers, Variable Frequency Drives and General Components. Contractor shall participate in Start-Up, Calibration, Testing and Demonstration and the 96-Hour Test Run during programming and startup with the Owner. No additional working days shall be added to the Contract Time for this Alternate.”

SP 1-4. Attachment A to SECTION 00 72 00- Good Faith Hazardous Material Survey

Item 1. ADD attached Entire Hazardous Material Survey.

SP 1-5. SECTION 23 09 23 – Direct-Digital Control for HVAC

Item 1. Add paragraph 1.4.C:
All work outlined within this section, and as indicated on the Control Drawings on sheet M701, shall be provided as part of Additive Bid Alternate #2.

Item 2. Clarification to drawings and specifications:
Existing building control software shall be upgraded as required, as part of Additive Alternate No. 2, for new control functionality outlined on M701. The note on M701 indicating ‘Existing controls for the chilled water system shall not be modified under this project.’ is referring to the existing chilled water sequence of operation and control points remaining as-is, as only the condenser water system control sequence is effected as part of this project.

SP 1-6. SECTION 23 25 00 – HVAC Water Treatment

Item 1. Revise Part 3.3.B to read as follows:
Closed Loop Condenser Water System

Clarifications and Supplemental Information:

1-1. Photograph Log and Images

Item 1. Add attached photograph log map Sheets R-1 and R2 and associated images of the existing conditions.

Item 2. Separate Video File.
Changes to Drawings:

DWG 1-1. Drawing S101 – Slab Plan and Details

Item 1.  Add Details: Following site improvements and underground construction within the existing chain link fence, filter fabric and crushed surfacing shall be placed to finish the surfaces. The contractor shall place a woven geotextile (Class B, Moderate Survivability for Permanent Erosion Control (WSDOT Specification 9-33.2(1) Table 4) over the subgrade and install 3-inches, compacted depth, of Crushed Surfacing, Top Course (WSDOT Specification 9-03.9(3)) over the geotextile and compact. Materials shall meet the requirements of the 2021 edition of the WSDOT Standard Specifications for Road, Bridge, and Municipal Construction.

DWG 1-2. Drawing M103 – Cooling Tower Yard Plans - Hydronics

Item 1.  Add note to GENERAL NOTES to read as follows: The estimated weight of the existing cooling tower is 13,720 lbs. based upon the original equipment schedule.

DWG 1-3. Drawing E-2 – Electrical High Voltage Site Demolition Plan

Item 1.  Add construction Note #11 to read: Remove power pole and associated components and deliver to Bill Morris (wrm@wsu.edu). Construction note #11 applies to the power pole that is just to the south of the power pole identified in Construction Note #8.


Item 1.  Add note to GENERAL NOTES to read as follows: The contractor shall remove and replace concrete sidewalk panel, as needed, to facilitate installation of underground piping/conduit between the building and the Cooling Tower. Sawcut concrete panel as needed to facilitate removal.

DWG 1-5. Drawing M101 – Level 2 – FLOOR PLAN - HYDRONICS – MECHANICAL

Item 1.  Add note to GENERAL NOTES to read as follows: Contractor to remove and replace concrete floor slab as needed to facilitate installation of new pipe and conduits through the foundation. Sawcut concrete prior removing slab.


Item 1.  Add note to GENERAL NOTES to read as follows:
Contractor to core drill foundation to facilitate installation of new pipe and conduits through the foundation. Seal penetration with non-shrink grout following pipe installation.


Item 1. Remove landscaping note in GENERAL NOTES and replace as follows:
Contractor to minimize removal of plants required to install conduits and pipes. Removed landscaping does not need to be replaced.


Item 1. Add note to GENERAL NOTES to read as follows:
The contractor shall provide an allowance for (6) 8” gear driven style shut-off valves, (6) 1” drain valves with threaded hose connection and ball valve, (6) air vents, and (6) vacuum breakers for condenser system isolation and draining. Final location of components on condenser water system to be coordinated with Owner in the field.


Item 1. Revise information in the “FURNISHED BY” column for CP-1 and CP-2 in the VFD’S schedule to read “Division 23” in lieu of 23 73 00.

DWG 1-10. Drawing E102 – COOLING TOWER YARD PLANS – ELECTRICAL

Item 1. Add Note 2 to read, “Existing conduit may be reused to the extent possible.”

Item 2. Add Note 3 to read, “Building interior conduit paths for new equipment shall be routed through Level 2 and parallel with piping route. Reference M101 for suggested path. Confirm route with Owner prior to rough in.”

END OF ADDENDUM No. 1
Spokane HERB Building Cooling Tower Replacement
Spokane, Washington

PRE-BID MEETING
Meeting Date: September 10, 2020

<table>
<thead>
<tr>
<th>ATTENDING</th>
<th>REPRESENTING</th>
<th>PHONE #</th>
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<tr>
<td>See attached attendance list</td>
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Meeting completed via Zoom. An attendance list is attached.

Note: A Pre-printed agenda in the form of Pre-Bid meeting minutes indicates routine items discussed at these meetings in standard print. The actual discussions that occurred at the meeting are printed in *italics*. The meeting notes and minutes will be routed to plan holders with the addendum that follows this meeting.

PROJECT SPECIFICS

- **Introductions**
  - Project Officer, Eric Smith, PE
  - Construction Manager, Eric Smith, PE
  - A/E, Anthony Schoen, PE (MW Consulting Engineers)

- **Project Description**
  The project will replace the existing cooling tower with two new fluid coolers. Work will include the removal of the existing tower, condenser pumps, piping and foundations. Project will also include all associated concrete foundations, piping, controls, pumps, water treatment system, valving, mechanical/electrical systems and associated fencing replacement required for the installation of the cooling towers and associated mechanical improvements. There are two alternates for this project. Contract Substantial Completion shall be achieved by March 12, 2021.

- **Alternatives**
  Alternate 1: The installation of all equipment, piping and support pads associated with the sidestream separator and basin sweeper systems. No additional working days shall be added to the Contract Time for this Alternate.
Alternate 2: **THIS WILL BE ISSUED IN ADDENDUM NO. 1 and will be further clarified in Addendum No. 1.** The control work for the project as part of the Base Bid will be completed by WSU Facility Operations Staff. Alternate 2 will add in all work outlined in Section 23 09 23 – Direct Digital Control for HVAC and as indicated on Sheet M701 shall be provided as part of Additive Bid Alternate No. 2. No additional working days shall be added to the Contract Time for this Alternate.

- The estimate for the project, not including taxes, is $550,000 to $650,000
- Contract Substantial Completion shall be achieved by March 12, 2021. Proposals MUST BE based on this Contract Time.

- **Bid Form**
  - Bid Date is Tuesday, September 24, 2020 at 2:00 P.M.
  - Review the Form of Proposal
  - Note that MWBE is not a bid form requirement

- **General**
  - *This is an active campus. There are students, faculty and visitors who either will not be aware of construction or will be distracted. Contractors must routinely work around the pedestrian population on campus as well as control noise and other construction related activities to minimize the effect on the campus.* **PLEASE NOTE:** At this time Fall Classes are online and as such, there will be limited people on campus. This is subject to change at any time.
  - WSU is committed to a completely accessible campus. *This means that when construction activities interfere with accessible pathways, that the General Contractor is responsible for putting in place temporary facilities (ramps, pathways, etc.,) to assure that all accessible pathways are available.*
  - Harassment in the workplace is not tolerated at WSU. All trades are required to conduct themselves such that harassment, real or perceived, does not occur. **Offending individuals will be permanently removed from the project.**

- **Project Specific**
  - Division 0 and Division 1. *Make sure and read Division 0 and Division 1 there are Contractor requirements that you need to be aware of.* Contractor is responsible for Survey and Materials Testing Costs. (Specification Sections 01 71 23 and 00 72 00)
  - Refer to Section 00 21 13, “Low Responsible Bidder”. *Contractor responsibility will be evaluated. Be prepared to submit the required information within 48 hours of receipt of request.* Completion of the Manufacturers Contractor training course; Manufacturer’s certification to install the product and meet the warranty requirements; Proof of Good Standing with the Manufacturer; The bidder has
installed 200,000 square feet of warranted manufactures roofing EPDM within the past 5 years.

- Site Access: The Cooling Tower is access from the HERB Parking Lot. The mechanical room can be accessed from the HERB Loading Dock.

- Schedule and Phasing: The Cooling Tower serves the existing vivarium located within the basement of HERB. This facility has ongoing research projects that rely upon the cooling properties that the improvements provide and will be ongoing during construction. It is imperative that the improvements are completed on time to ensure temperatures in the building can be maintained below 68 degrees at all times.

- Liquidated Damages are $2,476.48 per Day.

- Waste Management will be handled by the Contractor.

- Discuss parking. Parking permits are required at all times on Campus. Contractor will have a staging and/or parking area to work from. Permits will be required when outside of this area.

- Identify the day-to-day WSU on-site representative, typically a Construction Manager.

- Work Hours: 7am-6pm. authorization is required by WSU Spokane for alternate hours.

GENERAL ADMINISTRATION/MANAGEMENT

- MWBE PARTICIPATION
  Washington State University is committed to the enhancement of opportunities for minority and women’s owned and controlled firms in public contracting. While neither required nor a part of bidder responsiveness, the use of solicitation of minority and women’s business enterprise firms is expressly encouraged.

- PROJECT CLARIFICATIONS
  - O&M Manuals are required for “Substantial Completion”.
  - As-Built Drawings are required for “Substantial Completion”.

- ADDENDUM
  - Questions and substitution requests must be received by 5 days prior to bid.
  - Addenda No. 1 is expected to be issued on September 16, 2020.

PROJECT SITE VISIT

No site visit. Photographs and a video log of the project area will be provided.

CONTRACTOR QUESTIONS

Questions will be addressed in the addendum.
Date recorded: September 10, 2020

Recorded by: Eric Smith

These minutes represent the author's understanding of discussions held and decisions reached at the meeting. Amendments to these notes should be submitted to the author within three (3) working days after issuance or these minutes will stand as written.
**Washington State University**

**PRE Construction MEETING**

**SIGN-IN SHEET**
(Please Print)

<table>
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<tr>
<th>Name</th>
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<th>Fax Number</th>
<th>Email Address</th>
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### Pre-Bid Attendees

**WSU Spokane HERB Cooling Tower Replacement**

Date: September 10, 2020

<table>
<thead>
<tr>
<th>Company</th>
<th>Phone #</th>
<th>E-Mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eric Smith, Project Manager, WSUS</td>
<td>509-358-7629</td>
<td><a href="mailto:Eric.smith2@wsu.edu">Eric.smith2@wsu.edu</a></td>
</tr>
<tr>
<td>Jon Schad, WSU Spokane</td>
<td>509-358-7911</td>
<td><a href="mailto:schad@wsu.edu">schad@wsu.edu</a></td>
</tr>
<tr>
<td>Bill Pierce, WSU Spokane</td>
<td>509-358-7911</td>
<td><a href="mailto:wpierce@wsu.edu">wpierce@wsu.edu</a></td>
</tr>
<tr>
<td>Jake Anderson; MW Consulting Engineers</td>
<td>509-838-9020</td>
<td><a href="mailto:JakeA@mwengineers.com">JakeA@mwengineers.com</a></td>
</tr>
<tr>
<td>Gary Solberg, McClintock &amp; Turk</td>
<td>509-535-7641</td>
<td><a href="mailto:gary@mcturk.net">gary@mcturk.net</a></td>
</tr>
<tr>
<td>Dan Halme, Halme Builders</td>
<td>509-725-1200</td>
<td><a href="mailto:dan@halmebuilders.com">dan@halmebuilders.com</a></td>
</tr>
<tr>
<td>Aaron Mangum, Mangum Construction</td>
<td>509-254-1514</td>
<td><a href="mailto:aaron@mangum-construction.com">aaron@mangum-construction.com</a></td>
</tr>
<tr>
<td>Jason Ruckdashel, M&amp;M Harrison</td>
<td>509-397-2333</td>
<td><a href="mailto:jasonr@mmharrison.com">jasonr@mmharrison.com</a></td>
</tr>
<tr>
<td>Josh Chrisman, Apollo Mechanical</td>
<td>509-378-8945</td>
<td><a href="mailto:Josh.chrisman@apollomech.com">Josh.chrisman@apollomech.com</a></td>
</tr>
<tr>
<td>Tyler Cline, Haskell Corporation</td>
<td>360-676-7240</td>
<td><a href="mailto:tylercline@haskellcorp.com">tylercline@haskellcorp.com</a></td>
</tr>
<tr>
<td>Mark Caldwell, Aggreko</td>
<td>206-588-9932</td>
<td><a href="mailto:Mark.caldwell@aggreko.com">Mark.caldwell@aggreko.com</a></td>
</tr>
<tr>
<td>Scott Stevens, Aggreko</td>
<td>623-256-7148</td>
<td><a href="mailto:Scott.stevens@aggreko.com">Scott.stevens@aggreko.com</a></td>
</tr>
<tr>
<td>Matt Howell, Mackin &amp; Little, Inc.</td>
<td>509-838-2529</td>
<td><a href="mailto:matth@mackinlittle.com">matth@mackinlittle.com</a></td>
</tr>
</tbody>
</table>
CONDITIONS OF THE CONTRACT

00 11 13 Advertisement for Bids
00 21 13 Instructions to Bidders
00 42 13 Form of Proposal Part A: Base Bid & Alternate Bids
00 50 00 Agreement between Owner and Contractor
00 72 00 General Conditions for Washington State Facilities Construction with Washington State University Amendments
Attachment A: Good Faith Hazardous Material Survey

DIVISION 01    GENERAL REQUIREMENTS

01 11 00 Summary of Work
01 26 00 Change Order Procedures
01 29 00 Applications for Payment
Current Prevailing Wage Rates
01 29 73 Schedule of Values
01 31 19 Project Meetings
01 31 23 Coordination
01 32 13 Progress Schedule
01 32 33 Construction Photographs
01 33 00 Submittals
01 35 16 Alteration Procedures
01 41 00 Regulatory Requirements
01 41 19 Special Provisions
01 45 00 Quality Control
01 45 23 Testing Laboratory Services
01 45 34 Contract Performance Evaluation Program
01 50 00 Construction Facilities & Temporary Controls
01 60 00 Material and Equipment
01 70 00 Project Close-Out
01 71 23 Field Engineering
01 74 19 Construction Waste Management
01 78 23 Operation & Maintenance Manuals
01 78 39 Project Record
01 81 19 Indoor Air Quality Management Plan
01 91 00 Commissioning Requirements

DIVISION 02    EXISTING CONDITIONS

02 41 19 Demolition

DIVISION 03    CONCRETE

03 01 00 Maintenance of Concrete
03 10 00 Concrete Forming and Accessories
03 20 00 Concrete Reinforcing
03 35 00 Concrete Curing and Finishing
DIVISION 22  PLUMBING

22 05 00  Common Work Results for Plumbing
22 05 05  Additions or Remodeled Facilities
22 05 17  Sleeves and Sleeve Seals for Plumbing Piping
22 05 23  General Duty Valves for Plumbing Piping
22 05 29  Hangers and Supports for Plumbing Piping and Equipment
22 05 49  Seismic Criteria for Plumbing Piping and Equipment
22 05 53  Identification for Plumbing Piping and Equipment
22 07 00  Plumbing Insulation
22 10 00  Plumbing Piping

DIVISION 23  HEATING VENTILATING AND AIR CONDITIONING

23 05 00  Common Work Results for HVAC
23 05 05  Additions or Remodeled Facilities
23 05 13  Common Motor Requirements for HVAC Equipment
23 05 17  Expansion Fittings and Loops for HVAC Piping
23 05 19  Sleeves and Sleeve Seals for HVAC
23 05 23  Meters and Gauges for HVAC Piping
23 05 29  General Duty Valves for HVAC Piping
23 05 48  Hangers and Supports for HVAC Piping and Fittings
23 05 49  Seismic Criteria for HVAC
23 05 53  Identification for HVAC Piping and Equipment
23 05 93  Testing, Adjusting, and Balancing
23 07 00  HVAC Insulation
23 09 23  Direct-Digital Control for HVAC
23 09 95  Variable Frequency Drives
23 21 13  Hydronic Piping
23 21 16  Hydronic Piping Specialties
23 21 23  Hydronic Pumps
23 25 00  HVAC Water Treatment
23 65 00  Cooling Towers

DIVISION 26  ELECTRICAL

26 01 01  Basic Electrical Requirements
26 01 02  Project Finalization
26 01 60  Electrical Demolition for Remodeling
26 05 19  Building Wire and Cable
26 05 20  Equipment Wiring
26 05 26  Grounding and Bonding
26 05 30  Conduit
26 05 31  Surface Raceway
26 05 32  Boxes
26 05 53  Electrical Identification
26 24 16  Panel boards
26 27 16  Cabinets and Enclosures
26 27 26  Wiring Devices
26 27 27  Supporting Devices
<table>
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<td>Enclosed Motor Controllers</td>
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</table>

END OF SECTION 00 01 10
Pursuant to and in compliance with the Advertisement for Bids and the Instructions to Bidders, the Bidder, having carefully examined the Contract Documents entitled "Spokane HERB Building Cooling Tower Replacement" and having visited the Project site and examined the conditions affecting the Work, hereby proposes and agrees to provide all labor, materials, equipment, services, and incidentals necessary to complete the Work for the following stipulated sums:

A. BASE BID


DOLLARS ($__________), including trench-excavation safety provisions if required. The amount of trench-excavation safety provisions included above is $___________.

B. UNIT PRICES – NOT USED

C. ALTERNATES

The Bidder proposes to modify the Base Bid by deleting from, adding to or otherwise modifying the Work as further described by the Contract Documents for the following stipulated sums:

Alternate No. & Description

Alternate No. 1 – Installation of all equipment, piping and support pads associated with the sidestream separator and basin sweeper systems. No additional working days shall be added to the Contract Time for this Alternate.  


DOLLARS ($__________).

Alternate No. 2 - Shall include all Direct Digital Control work for the project excluded in the Base Bid, as indicated above. Contractor will be responsible for providing and installing all hardware outlined in Section 23 09 23 including, but not limited to Valve
Actuators, Water Flow Meter, Control Valves, Controllers, Variable Frequency Drives and General Components. Contractor shall participate in Start-Up, Calibration, Testing and Demonstration and the 96-Hour Test Run during programming and startup with the Owner. No additional working days shall be added to the Contract Time for this Alternate.

DOLLARS ($               ).

For Alternates, which do not affect the Base Bid, indicate a zero (0) in the space provided for the Alternate.

D. REINSTATEMENT OF BID ALTERNATES

The Bidder agrees that Owner has the right to reinstate any Alternate not incorporated in the original Contract, for the sum originally proposed, provided Owner notifies the Bidder within 60 Days of Notice to Proceed.

E. SALES TAX

The Bidder agrees that the amounts indicated in the proposal do not include Washington State and local sales taxes except as required by the Instructions to Bidders.

F. CONTRACT PROVISIONS

Should the Bidder be notified of the acceptance of this proposal within 60 Days from the date set for the opening thereof or at any time thereafter before this proposal is withdrawn, the bidder agrees to execute a Contract for the Work and to furnish the required bonds.

1. TIME OF COMPLETION
   The bidder agrees, if awarded a Contract for the Work, to complete the Work within the Contract Time specified.

2. LIQUIDATED DAMAGES
   The bidder agrees that time is of the essence of the Contract and acknowledges that the amount of damages specified is a measure of the damages which the Owner will sustain should the Bidder fail to complete the Work within the Contract Time.

G. BID GUARANTEE

The Bidder agrees that the bid guarantee accompanying the Part A Form of Proposal is left in escrow with Owner, that the amount of the guarantee is the measure of the damages that Owner will sustain by failure of the bidder to execute a Contract for the Work and furnish required bonds, and that if the bidder fails to deliver said documents within 10 Days after receipt of notice of award to the bidder, the bid guarantee shall become the property of Owner.

H. MINORITY AND WOMEN'S BUSINESS ENTERPRISE (MWBE) PARTICIPATION
Owner is committed to the enhancement of opportunities for minority and women owned and controlled firms in public contracting. While neither required, nor a part of bidder responsiveness, the use or solicitation of minority and women business enterprises is expressly encouraged.

I. ADDENDA

The bidder hereby acknowledges receipt of Addendum by number(s):

________________________

K. PREVAILING WAGE CERTIFICATION

The bidder has not been determined by a final and binding citation and notice of assessment issued by the Department of Labor and Industries, or through a civil judgment entered by a court of limited or general jurisdiction, to have willfully violated, any provision of chapter 49.46, 49.48, or 49.52 RCW, as defined in RCW 49.48.82.

L. DECLARATION

The bidder represents and warrants that he/she possess the authority to sign for and bind bidder.

The Bidder declares under penalty of perjury under the laws of the State of Washington, that all of the foregoing information as recited is true and correct to the best of his/her knowledge.

Bidder’s Firm Name: ________________________________

Signed By: ________________________________ Official Title: __________________

Print Name: ________________________________

Address: ____________________________________________________________

City: __________________ State: ___________ Zip Code: ____________

Telephone: __________________ Fax: __________________

State of Washington Contractor’s License Number: ________________________

Federal Tax Identification Number: ________________________________

Email Address: ________________________________

The firm represented by the above signature is a:

Sole Proprietorship __________
Partnership __________
Corporation ___________ State of Incorporation ________________
Other __________
END OF SECTION 00 42 13
Limited Asbestos Survey Report
HERB Cooling Tower Replacement
310 N. Riverpoint Blvd, Spokane WA

1.0 GENERAL INFORMATION

Date inspection was performed: August 8, 2020

AHERA Building Inspector performing inspection: Chad Trent

AHERA Building Inspector Signature: Chad Trent

AHERA Building Inspectors certification number: BIR20190823-09

AHERA Building Inspector certification expiration date: August 23, 2020

Name & address of entity providing certification: Kyron Environmental, 10 North Post St #218, Spokane, WA 99201

Site address: 310 N. Riverpoint Blvd, Spokane, WA.

Structure description: Four-story concrete structure.

Purpose of inspection: Replacement of cooling tower.

Limitations of Inspection: Inspection was limited to materials anticipated to be impacted by planned work activities. The cooling tower is located outside of the building. The inspection was limited to suspect materials present on the cooling tower and water lines routed through the building that may be impacted by work activities.

Homogenous Area(s): The cooling tower and water lines were considered a single homogenous work area.

2.0 BUILDING INFORMATION

The structure was constructed in 1999 and is a four-story concrete construction building. The building is used for typical university applications containing offices, classrooms, breakrooms, conference rooms, mechanical rooms and areas utilized for research.

3.0 PURPOSE

Regulations require a property owner or the owner's agent to identify asbestos containing building materials that may be impacted in a work area prior to renovation or demolition activities. An asbestos survey must be conducted by an asbestos hazard emergency response act (AHERA) certified building inspector (copy of Building Inspectors’ certificate is located in Appendix A). Results of this survey must be posted in a readily accessible and visible location at the work site for all persons at the work site.
The property owner or owner’s agent and the AHERA building inspector that performed the survey shall retain a complete copy of the asbestos survey for at least two (2) years and make it available to regulatory authorities upon request.

The purpose of the survey was to identify asbestos containing materials that may be impacted by proposed work activities. The project consists of replacing the cooling tower. In addition some water lines associated with the cooling tower on the interior of the building will be impacted to install new equipment.

A visual inspection of all accessible spaces within the work area was conducted in accordance with applicable regulatory and industry standards. Any suspect asbestos containing material (ACM) identified during the visual inspection was sampled. Collected samples were submitted for laboratory analysis to determine asbestos content. Analytical results and locations of identified ACM are presented in this survey report.

3.0 LIMITATION OF SURVEY

Scope of work was limited to sampling materials anticipated to be impacted by proposed work activities.

4.0 HOMOGENOUS AREA(S)

Homogenous materials are those considered consistent throughout an area based on color, texture, construction era, and sample results. Material appearance, texture, size, color, and manufacturer’s labels support assumptions made regarding homogenous designation assigned to each material. Homogeneous areas were delineated using the construction era, construction materials, and sample results as the primary consideration.

The work area was the identified as a single homogenous area

5.0 MATERIAL SAMPLE INFORMATION

Samples of suspect materials were collected per Spokane Regional Clean Air Agency Article IX regulations and AHERA regulations.

Regulations identify samples to be broken into homogenous materials for sampling. A homogenous material is considered to be an asbestos containing material (ACM) if one or more sample results are reported as greater than one percent (1%) asbestos. Analysis can result in both positive and negative sample results in materials containing low concentrations of asbestos fibers, have asbestos fibers tightly bound in a matrix, have asbestos fibers that have been milled (fine fibers), were hand mixed, or have a combination of these characteristics. The environmental protection agency (EPA) recommends a minimum of three samples be analyzed for these types of materials.
6.1 Asbestos Containing Materials

Asbestos containing materials are materials that contain one percent (1%) or more asbestos. No asbestos containing materials were identified.

6.2 Materials Assumed to be Asbestos Containing

Materials assumed to be asbestos containing are materials that based on labeling or other knowledge of the material or are suspect materials but not sampled. Suspect material identified include, but are not limited to:

- Gasket material present in water pipes

6.3 Non-Asbestos Containing Materials

Non-asbestos containing materials are any materials that contain one percent (1%) or less asbestos. The following materials were identified through testing/analysis to be non-asbestos containing:

- White paste on ends of fiberglass pipe insulation – Water pipes around the cooling tower
- Gray putty on seams of metal covering fiberglass insulation – Water pipes around the cooling tower
- Black gasket material – Seams on the cooling tower
- Gray/Silver paint – Exterior of the cooling tower

6.3 Materials Assumed to Be Non-Asbestos Containing

The following materials were assumed to be non-asbestos containing based on manufacturer’s labels, age, appearance, or inspector’s expertise:

- Metal – Cooling tower structure, water pipes, etc.
- Rubber – Gasket material

7.0 CONCLUSIONS

No asbestos containing materials were identified as part of this investigation. The only suspect material identified that could not be sampled were gaskets present at junctions of the water lines. It is believed that these gaskets are rubber, but if they are not EH&S should be contacted to assess if they require sampling.

If a suspect material not identified in this report is discovered, it must be sampled by an AHERA accredited Building Inspector and analyzed to determine asbestos content prior to any impacting activity.
Certificate of Completion

Chad Trent

has successfully completed

4-Hr AHERA Certified Building Inspector Refresher Training

In compliance with TSCA Title II AHERA 40 CFR Part 763

as approved by the State of Missouri

Kyron Environmental Accreditation #MO-129

Date of Training & Exam: August 23, 2019 in Spokane WA

Certificate # BIR20190823-09

Larry Hagel, Instructor

Expires: 08/23/2020
APPENDIX B
Analytical Report and NVLAP Accreditation
September 8, 2020

Washington State University
EH&S
Chad Trent
412 E. Spokane Falls Boulevard
Spokane, WA 99201

Dear Mr. Trent,

The enclosed report details results for the analysis of the bulk sample(s) submitted to Mountain Laboratories on September 2, 2020. Sample analysis was performed to determine asbestos type and content using Polarized Light Microscopy, supplemented by Dispersion Staining (PLM/DS).

This report includes a summary of the analytical results and chain of custody. Analytical results are only reflective of the samples, which were tested and presented in this report. Mountain Laboratories limits warranty to proper analysis methods and takes no responsibility for sample procurement.

It has been our pleasure providing you with these analytical services. If you have any questions regarding this report, please do not hesitate to call us at (509) 922-1365.

Sincerely,

Heidi L. Porret
Laboratory Manager
Mountain Laboratories
Mountain Laboratories NW, Inc.

Enclosure: 1926.20067.20074H
<table>
<thead>
<tr>
<th>Laboratory No.</th>
<th>B20-39993</th>
<th>B20-39994</th>
<th>B20-39995</th>
</tr>
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<tbody>
<tr>
<td>Sample ID No.</td>
<td>HERB-082620-01</td>
<td>HERB-082620-02</td>
<td>HERB-082620-03</td>
</tr>
<tr>
<td>Sample Description</td>
<td>Paste</td>
<td>Paste</td>
<td>Paste</td>
</tr>
<tr>
<td>Sample Treatment</td>
<td>Tc</td>
<td>Tc</td>
<td>Tc</td>
</tr>
<tr>
<td>Homogeneous</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Layered</td>
<td>N</td>
<td>N</td>
<td>N</td>
</tr>
<tr>
<td>Fibrous</td>
<td>Y</td>
<td>Y</td>
<td>Y</td>
</tr>
<tr>
<td>Sample Color</td>
<td>Beige</td>
<td>Beige</td>
<td>Beige</td>
</tr>
<tr>
<td>Asbestos Present</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Asbestos Type and Percentage</td>
<td>N.D.</td>
<td>N.D.</td>
<td>N.D.</td>
</tr>
<tr>
<td>Total % Asbestos</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Other Fibrous Material In Sample</td>
<td>Mineral Wool 30%</td>
<td>Mineral Wool 30%</td>
<td>Mineral Wool 30%</td>
</tr>
<tr>
<td>Non-Fibrous Material:</td>
<td>Other 70%</td>
<td>Other 70%</td>
<td>Other 70%</td>
</tr>
</tbody>
</table>

Date Analyzed: September 8, 2020


Customer #: 1926

Analyst: Liz Templeton
## MOUNTAIN LABORATORIES
### BULK SAMPLE ANALYSIS FOR ASBESTOS

**Washington State University**
**EH&S**
**Chad Trent**
**412 E. Spokane Falls Boulevard**
**Spokane, WA 99201**


<table>
<thead>
<tr>
<th>Laboratory No.</th>
<th>B20-39996</th>
<th>B20-39997</th>
<th>B20-39998</th>
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<tbody>
<tr>
<td>Sample ID No.</td>
<td>HERB-082620-04</td>
<td>HERB-082620-05</td>
<td>HERB-082620-06</td>
</tr>
<tr>
<td>Sample Description</td>
<td>Putty</td>
<td>Putty</td>
<td>Putty</td>
</tr>
<tr>
<td>Sample Treatment</td>
<td>Teased/Heated</td>
<td>Teased/Heated</td>
<td>Teased/Heated</td>
</tr>
<tr>
<td>Homogeneous</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Layered</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Fibrous</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Sample Color</td>
<td>Silver</td>
<td>Silver</td>
<td>Silver</td>
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<tr>
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<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Asbestos Type and Percentage</td>
<td>N.D.</td>
<td>N.D.</td>
<td>N.D.</td>
</tr>
<tr>
<td>Total % Asbestos</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Other Fibrous Material In Sample</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Fibrous Material:</td>
<td>Other 100%</td>
<td>Other 100%</td>
<td>Other 100%</td>
</tr>
</tbody>
</table>

**Date Analyzed:** September 8, 2020

**Analyzed By:** Liz Templeton

---

Mountain Laboratories, Mountain Laboratories NW, Inc. limits warranty to proper analysis methods only and takes no responsibility for sample procurement. Mountain Laboratories, Mountain Laboratories NW, Inc., 9922 E. Montgomery Suite #13, Spokane Washington 99206 (509) 922-1365 - Fax (509) 922-1380. PLM has been known to miss asbestos in a small percentage of samples. Thus negative or <1% PLM results should be tested with either SEM or TEM. Customer is responsible for sample separation. This report may only be reproduced in full with written approval by Mountain Laboratories. Soil/Dust samples are not covered under NVLAP Accreditation.

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## MOUNTAIN LABORATORIES
BULK SAMPLE ANALYSIS FOR ASBESTOS

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<tr>
<th>Laboratory No.</th>
<th>B20-39999</th>
<th>B20-40000</th>
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<td>HERB-082620-08</td>
<td>HERB-082620-09</td>
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<tr>
<td>Sample Description</td>
<td>Gasket Material</td>
<td>Gasket Material</td>
<td>Gasket Material</td>
</tr>
<tr>
<td>Sample Treatment</td>
<td>Teased/Heated</td>
<td>Teased/Heated</td>
<td>Teased/Heated</td>
</tr>
<tr>
<td>Homogeneous</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Layered</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Fibrous</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Sample Color</td>
<td>Silver/Black</td>
<td>Silver/Black</td>
<td>Silver/Black</td>
</tr>
<tr>
<td>Asbestos Present</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Asbestos Type and Percentage</td>
<td>N.D.</td>
<td>N.D.</td>
<td>N.D.</td>
</tr>
<tr>
<td>Total % Asbestos</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Other Fibrous Material In Sample</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Analysis Details

- **Customer #:** 1926
- **Sample Description:** Gasket Material
- **Sample Treatment:** Teased/Heated
- **Asbestos Present:** No
- **Asbestos Type and Percentage:** N.D.
- **Total % Asbestos:** None
- **Other Fibrous Material In Sample:**
  - **Non-Fibrous Material:**
    - Other 25% Foam 75%
    - Other 25% Foam 75%
    - Other 25% Foam 75%

**Date Analyzed:** September 8, 2020  
**Analyzed By:** Liz Templeton

---

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# Mountain Laboratories

## Bulk Sample Analysis for Asbestos

**Washington State University**

**EH&S**

**Chad Trent**

**412 E. Spokane Falls Boulevard**

**Spokane, WA 99201**

---

**Project:** HERB Cooling Tower


**Customer #:** 1926

<table>
<thead>
<tr>
<th>Laboratory No.</th>
<th>B20-40002</th>
<th>B20-40003</th>
<th>B20-40004</th>
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<td>Sample ID No.</td>
<td>HERB-082620-10</td>
<td>HERB-082620-11</td>
<td>HERB-082620-12</td>
</tr>
<tr>
<td>Sample Description</td>
<td>Silver Paint</td>
<td>Silver Paint</td>
<td>Silver Paint</td>
</tr>
<tr>
<td>Sample Treatment</td>
<td>Teased/Heated</td>
<td>Teased/Heated</td>
<td>Teased/Heated</td>
</tr>
<tr>
<td>Homogeneous</td>
<td>No</td>
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<td>No</td>
</tr>
<tr>
<td>Layered</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Fibrous</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Sample Color</td>
<td>Silver</td>
<td>Silver</td>
<td>Silver</td>
</tr>
<tr>
<td>Asbestos Present</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Asbestos Type and Percentage</td>
<td>N.D.</td>
<td>N.D.</td>
<td>N.D.</td>
</tr>
<tr>
<td>Total % Asbestos</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Other Fibrous Material In Sample</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Non-Fibrous Material:</td>
<td>Paint 100% Other 100%</td>
<td>Paint 100% Other 100%</td>
<td>Paint 100% Other 100%</td>
</tr>
</tbody>
</table>

**Date Analyzed:** September 8, 2020

**Analyzed By:** Liz Templeton

---

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# CHAIN OF CUSTODY RECORD

**Mountain Laboratories**
9922 E. Montgomery, Suite 13
Spokane, Washington 99206
Phone: 509-922-1365
Fax: 509-922-1380
E-Mail: heidi@mountainlaboratories.com

**Billing Information (if different)**
Contact Name, Address & Phone
Washington State University
Attn: Chad Trent
412 E. Spokane Falls Blvd
Spokane, WA 99202

**Project Name:** HERB Cooling Tower
**Project Number:**

**Results:**
- E-Mail: X
- MAIL: 
- FAX: 
- PHONE: 

**E-Mail:** chad.trent@wsu.edu

## Customer Information:
Washington State University
Attn: Chad Trent
412 E. Spokane Falls Blvd
Spokane, WA 99202

<table>
<thead>
<tr>
<th>Sample #</th>
<th>SAMPLE DESCRIPTION</th>
<th>DATE/TIME</th>
<th>PLM-Bulk</th>
<th>REMARKS</th>
<th>RESULTS</th>
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<tbody>
<tr>
<td>HERB-082620-01</td>
<td>White paste</td>
<td></td>
<td>X</td>
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<tr>
<td>HERB-082620-02</td>
<td>White paste</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HERB-082620-03</td>
<td>White paste</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
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<tr>
<td>HERB-082620-04</td>
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<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HERB-082620-05</td>
<td>Gray putty</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HERB-082620-06</td>
<td>Gray putty</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HERB-082620-07</td>
<td>Black gasket material</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HERB-082620-08</td>
<td>Black gasket material</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HERB-082620-09</td>
<td>Black gasket material</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HERB-082620-10</td>
<td>Silver paint</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HERB-082620-11</td>
<td>Silver paint</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HERB-082620-12</td>
<td>Silver paint</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Analysis Required

<table>
<thead>
<tr>
<th>TURNAROUND</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 HR Rush</td>
</tr>
<tr>
<td>3 HR Rush</td>
</tr>
<tr>
<td>24 HR Rush</td>
</tr>
</tbody>
</table>

## Condition
- Condition: Good

**RELEASED BY**
(Signature) Chad Trent
**DELIVERY METHOD** Hand
**RECEIVED BY**
(Signature) Christy Collins
**COMPANY** Mountain Laboratories
**DATE/TIME RECEIVED** 9/2/2008 am
Appendix C
Asbestos Sample Location Map, Sample Summary, and Pictures of Sampled Materials
HERB Cooling Tower
Asbestos Sampling Map

Note: Not to scale
<table>
<thead>
<tr>
<th>Homog Index</th>
<th>Sample Number</th>
<th>Analytical Results (%)</th>
<th>Sample Location</th>
<th>Homogenous Material Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OT01</td>
<td>HERB-082620-01</td>
<td>None Detected</td>
<td>North side of chiller, big water pipe, east end</td>
<td>White paste present on ends of fiberglass pipe insulation</td>
</tr>
<tr>
<td></td>
<td>HERB-082620-02</td>
<td>None Detected</td>
<td>North side of chiller, big water pipe, center</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HERB-082620-03</td>
<td>None Detected</td>
<td>West side of chiller, big water pipe, bottom</td>
<td></td>
</tr>
<tr>
<td>OT02</td>
<td>HERB-082620-04</td>
<td>None Detected</td>
<td>North side of chiller, big pipe, east end</td>
<td>Gray putty on seams of metal covering fiberglass pipe insulation</td>
</tr>
<tr>
<td></td>
<td>HERB-082620-05</td>
<td>None Detected</td>
<td>West side of chiller, big pipe, center</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HERB-082620-06</td>
<td>None Detected</td>
<td>Top of chiller, north side</td>
<td></td>
</tr>
<tr>
<td>OT03</td>
<td>HERB-082620-07</td>
<td>None Detected</td>
<td>Chiller, north side, east end, ~4’ from ground</td>
<td>Black gasket material located in metal seams on the cooling tower</td>
</tr>
<tr>
<td></td>
<td>HERB-082620-08</td>
<td>None Detected</td>
<td>Chiller, south side, east end, ~4’ from ground</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HERB-082620-09</td>
<td>None Detected</td>
<td>Chiller, south side, top of ladder, top seam</td>
<td></td>
</tr>
<tr>
<td>OT04</td>
<td>HERB-082620-10</td>
<td>None Detected</td>
<td>Chiller, south side, center, ~3’ from ground</td>
<td>Gray/Silver paint on the exterior of the cooling tower</td>
</tr>
<tr>
<td></td>
<td>HERB-082620-11</td>
<td>None Detected</td>
<td>Chiller, north side, east end, ~6’ from ground</td>
<td></td>
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<td>HERB-082620-12</td>
<td>None Detected</td>
<td>Chiller, north side, west end, ~4’ from ground</td>
<td></td>
</tr>
</tbody>
</table>
OT01: White paste on fiberglass water pipe insulation

OT02: Gray putty on seams of metal covering fiberglass water pipe insulation

OT03: Black gasket material in seams of cooling tower

OT03: Gray/Silver paint on cooling tower
Memorandum

Date: September 10, 2020
To: Spokane HERB Building Cooling Tower Replacement Bidders
From: Eric M. Smith, PE - Facilities Services Capital Spokane
Subject: Spokane HERB Building Cooling Tower Replacement Photographs

Figure 1 – HERB Loading Dock
Figure 30 – HERB Room 100S – Looking down from second floor

Figure 31 – Existing Cooling Tower