Date: June 23, 2016  Addendum #: 4
Project: Museum of the Rockies Collections & Storage Facility
Project #: Slate Architecture # : 15056
MSU PPA #: 13-0093
To: All Plan Holders of Record

This Addendum is issued to inform bidders of clarifications to the plans & specifications. The additions, clarifications, and corrections contained herein shall be made to the Project Manual, Drawings, and Schedules for the above referenced project, and shall be included in the scope of work and proposals to be submitted. References made below to the Project Manual and Drawings shall be used as a general guide only. Bidder shall determine the extent of work affected by Addendum items.

GENERAL NOTES:
1. Provide concrete wall horizontal reinforcing as indicated in the drawings or approved equivalent, approved by the Structural Engineer of Record. Approval of a change in horizontal reinforcing will be required through the RFI process.

QUESTIONS (Q) / CLARIFICATIONS (C):
Q1. I cannot locate the parapet Coping specs, I see it listed on spec 077100, but nothing called out?
   C1. See revisions to spec section 07 7100 below.

Q2. The Membrane specs states minimum 2” Taper ISO but plans state 6” ISO base layer?
   C2. The base layer is to be 6” flat stock rigid insulation with tapered board on top.

Q3. The membrane specs also calls out 25 PSI for ISO, is that definitely needed? The standard ISO is 20 PSI?
   C3. 20 PSI insulation is acceptable, so long as the warranties are still provided as indicated in the specifications.
DRAWING MODIFICATIONS/CLARIFICATIONS:

1) S1.02 - SECOND FLOOR FRAMING PLAN
   A. MODIFY All concrete slab on deck is to be reinforced with #4 @ 18” O.C.

2) A2.0 – ARCHITECTURAL SITE PLAN
   A. REPLACE the existing page with the new one attached.
      i. This revision includes the addition of a;
         1. 42” MIN. FENCING. 4”X4” WELDED CATTLE PANEL SPOT WELDED OR
            MECHANICAL ATTACHED TO GALV 2” DIA. TUBE STEEL @ 10'-0” O.C. ADJUST
            FOR SLOPE OF WALL AND STEP AS NEEDED. FIELD VERIFY AND SUPPLY
            SHOP DRAWINGS FOR APPROVAL. 2” VERTICALS ARE TO BE SLEEVED IN
            CONC. WALL OR INSTALLED BEHIND WALL 6”
         2. BASIS OF DESIGN: MCNICHOLS QUALITY 4” SQUARE OPENING WIRE MESH
            0.2500” WIRE, SQUARE WEAVE, GALVANIZED, 48” X 120”. KEEP TOP LEVEL
            AND CUT BOTTOM. STEP SECTIONS AS NEEDED.

3) A2.1 - OVERALL FLOOR PLANS
   A. REPLACE the existing page with the new one attached.
      i. This is in response to the City of Bozeman comment. The type I-5 wall will no longer be
         used in the project. The 3-hour fire wall will be constructed continuously with the
         relocation of door 111B, door 111A is to have a 180 degree closer and a new door 111C
         will need to be added to the scope of the project. Coiling Door 112B will need to be
         installed between the head and jamb of the new 3-hour fire wall.

4) A2.5 - REFLECTED CEILING PLAN
   A. REPLACE the existing page with the new one attached.
      i. This is in response to the City of Bozeman comment. The type I-5 wall will no longer be
         used in the project. The 3-hour fire wall will be constructed continuously with the
         relocation of door 111B, door 111A is to have a 180 degree closer and a new door 111C
         will need to be added to the scope of the project. Coiling Door 112B will need to be
         installed between the head and jamb of the new 3-hour fire wall.

5) A6.1 - DOOR & WINDOW SCHEDULE, ELEVATIONS & DETAILS
   A. REPLACE the existing page with the new one attached.
      i. This is in response to the City of Bozeman comment. The type I-5 wall will no longer be
         used in the project. The 3-hour fire wall will be constructed continuously with the
         relocation of door 111B, door 111A is to have a 180 degree closer and a new door 111C
         will need to be added to the scope of the project. Coiling Door 112B will need to be
         installed between the head and jamb of the new 3-hour fire wall.
6) A6.2 - DOOR DETAILS
   A. REPLACE the existing page with the new one attached.
      i. This is in response to the City of Bozeman comment. The type I-5 wall will no longer be
         used in the project. The 3-hour fire wall will be constructed continuously with the
         relocation of door 111B, door 111A is to have a 180 degree closer and a new door 111C
         will need to be added to the scope of the project. Coiling Door 112B will need to be
         installed between the head and jamb of the new 3-hour fire wall.

SPECIFICATION MODIFICATIONS/CLARIFICATIONS:

1) Bid Forms
   a. Subcontractors bidding package 1.2A Sitework are to utilize the Unit Price Bid Form attached
      to this addendum for providing pricing for the East Retention Basin work as shown on sheet
      ADD2.1 (See Attached).

2) Bid Package 1.7 Roofing and 1.22A Plumbing and Mechanical: Plumbing Contractor is to supply and
   install roof drains. Roofing contractor is to install roofing system to drains. Both contractors will
   coordinate installation to provide a watertight system.

3) Bid Package 1.9C Painting: Delete 03 3511 Concrete Floor Finishes from this scope. Concrete floor
   finishes are to be provided by successful bidder of 1.3A

4) SECTION 07 4213 – METAL WALL PANELS
   a. MODIFY 2.02 to read; "Wall Panel System: Factory fabricated prefinished aluminum metal
      panel system, site assembled."
   b. MODIFY 2.03 to read; "Precoated Aluminum Sheet: ASTM B209 (ASTM B209M), 3105 alloy,
      O temper, smooth surface texture; continuous-coil-coated on exposed surfaces with
      specified finish coating and on panel back with specified panel back coating."

5) SECTION 07 5419 – PVC THERMOPLASTIC SINGLE-PLY ROOFING
   A. MODIFY 2.04.A.1 – INSULATION; to allow for a compressive strength of 20 PSI.
      i. Note: Acceptable so long as the warranties are still provided as indicated in the
         specifications.

6) SECTION 07 7100 – ROOF SPECIALTIES
   A. ADD the following to 2.02 Components
      i. “C. Copings: Factory fabricated to sizes required; mitered, welded corners; concealed
         fasteners.
         1. Configuration: Concealed continuous hold down cleat at both legs; internal splice
            piece at joints of same material, thickness and finish as cap; concealed stainless
            steel fasteners.
2. Pull-Off Resistance: Tested in accordance with ANSI/SPRI/FM 4435/ES-1 RE-3 to positive and negative design wind pressure as defined by applicable code.
3. Material: Formed aluminum sheet, 0.050 inch thick, minimum.
4. Color: To be selected by Architect from manufacturer’s standard range.”

7) SECTION 23 8216 – REFRIGERANT COILS
   a. ADD new section see attached.

8) SECTION 23 8219 – ELECTRIC-RESISTANCE DUCT HEATERS
   a. ADD new section see attached.

9) SECTION 23 8413 – HUMIDIFIERS
   a. ADD new section see attached.

PRIOR APPROVALS
Review for prior approval is for general conformance with the plans and specifications. This review does not take the place of shop drawing review. All requirements of the Plans and Specifications must be met. This review does not relieve the Contractor of the responsibility for furnishing equipment and materials that meet the requirements of the Contract Documents.

Architectural Prior Approvals

<table>
<thead>
<tr>
<th>SECTION</th>
<th>ITEM</th>
<th>MANUFACTURER</th>
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Mechanical Prior Approvals

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<td>23 3113</td>
<td>Spiral Ductwork</td>
<td>Spiral-Tech</td>
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<td>23 3300</td>
<td>Duct Mounted Access Doors</td>
<td>Ruskin</td>
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<td>23 7200</td>
<td>Heat Recovery Units</td>
<td>American Aldes</td>
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Electrical Prior Approvals

Section 265119 – The following manufacturers are approved for bidding purposes only. All products are subject to final approval during the submittal process. The Contractor is responsible for providing equipment that meets the project requirements and meets or exceeds the equipment specified in quality, appearance and performance:

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<th>Comments</th>
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<tr>
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<td>E1</td>
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<td>X1</td>
<td>MAXILUME</td>
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**ATTACHMENTS:**

1) SHEET A2.0 – ARCHITECTURAL SITE PLAN
2) SHEET A2.1 – OVERALL FLOOR PLANS
3) SHEET A2.5 – REFLECTED CEILING PLANS
4) SHEET A6.1 – DOOR & WINDOW SCHEDULE, ELEVATIONS & DETAILS
5) SHEET A6.2 – DOOR DETAILS
6) Unit Price Bid Form
7) Sketch ADD 2.1 (Revised)
8) SECTION 23 8216 – REFRIGERANT COILS
9) SECTION 23 8219 – ELECTRIC-RESISTANCE DUCT HEATERS
10) SECTION 23 8413 – HUMIDIFIERS
11) PRE-BID SIGN-IN SHEET

**END OF ADDENDUM 4**
1. First Level Reflected Ceiling Plan
2. Second Level Reflected Ceiling Plan
3. Acoustical Ceiling Detail #1
4. Acoustical Ceiling Detail #2
5. Seismic Suspension System
6. Four Way Tee Bracing

**Note:** The suspension system is intended for the use of the manufacturer's recommended materials and accessories. The manufacturer's instructions should be followed closely. The suspension system must be designed, installed, and tested in accordance with the manufacturer's specifications. The suspension system must also be installed in accordance with ASTM C635 and ASTM C636. The requirements for the installation of suspended ceiling systems shall comply with the 2012 code in accordance with the provisions of Sec. 309.1.

**ACOUSTICAL CEILING DETAIL #1**
- Material: Armstrong Seismic RX Panel
- Wall molding to have a horizontal flange of 2" minimum. Option: Use Armstrong acoustical panel. Note: The RX suspension system allows for the use of the smaller 7/8" wall angle and BERC2 clips. Refer to the manufacturer's instructions.

**SEISMIC SUSPENSION SYSTEM**
- Support 100 lbs. connections at main beam & structure a minimum of 3 turns.
- Hanger wire: Max 8" max runner. Typical for 4 wires in line with 45° max. Typical for 4 wires in line with 45° max. Typical for 4 wires in line with 45° max. Typical for 4 wires in line with 45° max.
- Wall angle: Attatch at each stud with 1-1/4" long s-clips. Note: The Rx suspension system allows for the use of the smaller 7/8" wall angle and BERC2 clips. Refer to the manufacturer's instructions.

**FOUR WAY TEE BRACING**
- Attach one end of grid to molding at two adjacent walls. Note: The Rx suspension system allows for the use of the smaller 7/8" wall angle and BERC2 clips. Refer to the manufacturer's instructions.

**Acoustical Ceiling Detail #2**
- Material: Armstrong Seismic RX Panel
- Wall molding to have a horizontal flange of 2" minimum. Option: Use Armstrong acoustical panel. Note: The Rx suspension system allows for the use of the smaller 7/8" wall angle and BERC2 clips. Refer to the manufacturer's instructions.
Unit Price Bid Form

Instructions to bidder: Subcontractors bidding package 1.2A Sitework are to provide unit cost pricing for the East Retention Basin revisions issues on sheet ADD2.1 of Addendum #2 in the table below. **Do not include this pricing in your base bid, only provide it on this form.**

<table>
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<tr>
<th>Item #</th>
<th>Description</th>
<th>Qty</th>
<th>Unit of Measure</th>
<th>Unit Price</th>
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<tr>
<td>1</td>
<td>Regrade Area</td>
<td>4500</td>
<td>SF</td>
<td></td>
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<td>2</td>
<td>Remove &amp; Replace Topsoil</td>
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<td>3</td>
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<tr>
<td>1</td>
<td>12&quot; SDR35 PVC - Complete</td>
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<td>LF</td>
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<tr>
<td>2</td>
<td>48&quot; Manhole - Complete</td>
<td>1</td>
<td>EA</td>
<td></td>
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<tr>
<td>3a</td>
<td>Remove &amp; Replace existing farm fence</td>
<td>150</td>
<td>LF</td>
<td></td>
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<tr>
<td>3b</td>
<td>Reset 14' gate to finished grade</td>
<td>1</td>
<td>EA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Replace impacted gravel approach at finished grade</td>
<td>60</td>
<td>SF</td>
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</tr>
<tr>
<td>5a</td>
<td>Regrade area</td>
<td>4500</td>
<td>SF</td>
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<tr>
<td>5b</td>
<td>Remove &amp; Replace Topsoil</td>
<td>4500</td>
<td>SF</td>
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<td>Re-seed with native grasses</td>
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</table>
Note to bidders: This sheet previously included in addendum #2. Included here for reference to Unit Price Bid Form

Museum of the Rockies - New Collections & Storage Facility
Bid Addendum #2: Revisions to East Retention Basin

East Retention Basin, New Location
Final design to be provided after award. See below for revisions at previous location.

**Bid Quantities:**
1. Regrade area = 4,500 sq. ft.
2. Remove & replace topsoil
3. Re-seed with native grasses
4. Import Fill = 0 CY (balance)

Existing Ditch, to remain undisturbed

East Retention Basin, Previous Location (Detail 2, Sheet C4.0)

**REVISIONS TO PREVIOUS LOCATION – REPLACE DETAIL 2, SHEET C4.0 WITH THE FOLLOWING**
Final design to be provided after award.

**Bid Items & Quantities:**
1. 100 LF - 12" SDR35 PVC
2. 48" dia. manhole per City of Bozeman Std. Drawing No. 02720-4, with 12" sump
3. Remove & replace 150 LF existing farm fence, and re-set 14' gate to finished grade
4. Replace impacted gravel approach at finished grade
5. Re-grade area = 4,500 sq. ft., remove & replace topsoil, import fill = 100 cubic yards
6. Re-seed with native grasses
SECTION 23 8216.13
REFRIGERANT COILS

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes refrigerant air coils.

1.2 ACTION SUBMITTALS
A. Product Data:
   1. Case Refrigerant Coils
      a. Product Data Sheets
      b. Physical Dimensions

1.3 CLOSEOUT SUBMITTALS
A. Operation and maintenance data.

PART 2 - PRODUCTS

2.1 CASED REFRIGERANT AIR COILS
A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. Daikin/McQuay.
   2. Temtrol.
   3. York/JCI.

B. Performance Ratings: Tested and rated according to AHRI 410 and ASHRAE 33.

C. Coil
   2. Source Quality Control: Factory tested to 450 psig.
   3. Tubes: ASTM B 743 copper, minimum 0.016" thick.
   4. Fins: Aluminum, minimum 0.010 inch thick.
   5. Frames: Galvanized-steel channel frame, minimum 0.052 inch thick for slip-in or flanged mounting.

D. Casing
   1. Frame: Thermally broken galvanized framing system.
   3. Drain Pan: 26" long stainless steel with positive slope to drain connection.
E. Capacities and Characteristics:
   1. See Drawings.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install coils level and plumb.
B. Straighten bent fins on air coils.
C. Clean coils using materials and methods recommended in writing by manufacturers, and clean inside of casings and enclosures to remove dust and debris.
D. Piping installation requirements are specified in other Sections. Drawings indicate general arrangement of piping, fittings, and specialties.
E. Install piping adjacent to coils to allow service and maintenance.

END OF SECTION
SECTION 23 8216.14
ELECTRIC-RESISTANCE DUCT HEATERS

PART 1 - GENERAL

1.1 SUMMARY
A. Section includes electric resistance duct heater

1.2 ACTION SUBMITTALS
A. Product Data: For each type of product.

1.3 CLOSEOUT SUBMITTALS
A. Operation and maintenance data.

PART 2 - PRODUCTS

2.1 DESCRIPTION
A. ASHRAE Compliance: Comply with applicable requirements in ASHRAE 62.1, Section 5 - "Systems and Equipment" and Section 7 - "Construction and Startup."

2.2 COILS
A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
   1. Nailor.
   2. Qmark.
   3. Redd-i.
B. Testing Agency Listing and Labeling: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
C. Coil Assembly: Comply with UL 1995.
D. Heating Elements: Coiled resistance wire of 80 percent nickel and 20 percent chromium; surrounded by compacted magnesium-oxide powder in tubular-steel sheath; with spiral-wound, copper-plated, steel fins continuously brazed to sheath.
E. High-Temperature Coil Protection: Disk-type, automatically reset, thermal-cutout, safety device; serviceable through terminal box without removing heater from duct or casing.
1. Secondary Protection: Load-carrying, manually reset or manually replaceable, thermal cutouts; factory wired in series with each heater stage.

F. Frames: Galvanized-steel channel frame, 20 gauge minimum thick for slip-in or flanged mounting.

G. Control Panel: Unit mounted with disconnecting means and overcurrent protection. Include the following controls:
   1. Magnetic contactor.
   3. Toggle switches; one per step.
   4. Step controller.
   5. Time-delay relay.
   6. Pilot lights; one per step.
   7. Airflow proving switch.

H. See Section 23 0923.27 "Temperature Instruments" for thermostat.

I. Capacities and Characteristics:
   1. See Drawings

PART 3 - EXECUTION

3.1 INSTALLATION
A. Install coils level and plumb.
B. Install coils in metal ducts and casings constructed according to SMACNA's "HVAC Duct Construction Standards, Metal and Flexible."
C. Clean coils using materials and methods recommended in writing by manufacturers, and clean inside of casings and enclosures to remove dust and debris.

3.2 CONNECTIONS
A. Ground equipment according to Section 26 0526 "Grounding and Bonding for Electrical Systems."
B. Connect wiring according to Section 26 0519 "Low-Voltage Electrical Power Conductors and Cables."

END OF SECTION
SECTION 23 8413
HUMIDIFIERS

PART 1 - GENERAL

1.1 SUMMARY
   A. This Section includes self-contained humidifiers.

1.2 ACTION SUBMITTALS
   A. Product Data: Include rated capacities, operating characteristics, furnished specialties, and accessories.
   B. Shop Drawings: Detail fabrication and installation of humidifiers. Include piping details, plans, elevations, sections, details of components, manifolds, and attachments to other work.
      1. Include wiring diagrams.

1.3 INFORMATIONAL SUBMITTALS
   A. Field quality-control test reports.

1.4 CLOSEOUT SUBMITTALS
   A. Operation and maintenance data.

1.5 QUALITY ASSURANCE
   A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
   B. Comply with ARI 640, "Commercial and Industrial Humidifiers."

PART 2 - PRODUCTS

2.1 SELF-CONTAINED HUMIDIFIERS
   A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
      1. Carel USA, LLC.
      2. Nortec Industries Inc.

C. Manifold: Stainless-steel tube with integral fan to discharge vapor directly into occupied space.

D. Cabinet: Molded plastic for housing heater cylinder, electrical wiring, components, controls, and control panel. Enclosure shall include hinged or removable access door, and connection in bottom of cabinet for drain piping.

E. Control Panel:
   1. Factory-wired disconnect switch.
   2. Liquid-crystal display.
   3. Programmable keyboard.
   4. Set-point adjustment.
   5. Warning signal indicating end of replaceable cylinder life.
   7. Diagnostic, maintenance, alarm, and status features.
   8. High-water sensor or float to prevent overfilling.

F. Controls:
   1. Microprocessor-based control system for modulating or cycling control, and start/stop and status monitoring for interface to central HVAC instrumentation and controls.
   2. Solenoid-fill and automatic drain valves to maintain water level and temper hot drain water.
   3. Field-adjustable timer to control drain cycle for flush duration and interval.
   4. Controls shall drain tanks if no demand for humidification for more than 72 hours.
   5. Conductivity or Float-type level controls.

G. Accessories:
   1. Humidistat: Wall-mounting, solid-state, electronic-sensor controller capable of full modulation or cycling control.
   2. Airflow switch for preventing humidifier operation without airflow.

H. Capacities and Characteristics:
   1. See Drawings.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Install humidifiers with required clearance for service and maintenance. Maintain path, downstream from humidifiers, clear of obstructions as required by ASHRAE 62.1.

B. Piping installation requirements are specified in other Sections. Drawings indicate general arrangement of piping, fittings, and specialties.
   1. Install piping adjacent to humidifiers to allow service and maintenance.
   2. Install shutoff valve, strainer, backflow preventer, and union in humidifier makeup line.

C. Install electrical devices and piping specialties furnished by manufacturer but not factory mounted.
D. Ground equipment according to Section 26 0526 "Grounding and Bonding for Electrical Systems."

E. Connect wiring according to Section 26 0519 "Low-Voltage Electrical Power Conductors and Cables."

3.2 FIELD QUALITY CONTROL

A. Perform tests and inspections and prepare test reports.

B. Tests and Inspections:
   1. Leak Test: After installation, charge system and test for leaks. Repair leaks and retest until no leaks exist.
   2. Operational Test: After electrical circuitry has been energized, start units to confirm proper motor rotation and unit operation.
   3. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.

C. Remove and replace malfunctioning units and retest as specified above.

3.3 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain humidifiers. Refer to Section 01 7900 "Demonstration and Training."

END OF SECTION
# Museum of the Rockies: Pre-Bid Walk-Through Sign-In

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<th>Name</th>
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<th>Email</th>
<th>Phone</th>
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<tbody>
<tr>
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