ADDENDUM NO. 1 - OUTLINE AND SUMMARY INFORMATION

To: All Plan Holders of Record

The Plans and Specification prepared by Morrison Maierle, Inc., dated 2/1/2021 shall be clarified and added as follow. The bidder proposes to perform all the following clarifications or changes. It is understood that the Base Bid shall include any modification of Work or Additional Work that may be required by reason of the following change or clarifications.

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

I. PRIOR APPROVALS
   A. ….Not applicable.

II. AMENDMENTS TO THE PROJECT MANUAL
   A. …Revision to Invitation to Bid: New Bid Opening Date: March 4, 2021 at 2:00 PM

III. AMENDMENTS TO THE DRAWINGS

Sheet SD1.0
   1. Lighting and conduit – See revised structural plans attached.

Sheet SD1.3
   1. New sheet added – See revised structural plans attached.

Sheet S1.0
   1. Lighting and conduit – See revised structural plans attached.

IV. GENERAL INFORMATION
   A. ….None

V. ATTACHMENTS
   A. ….Drawings as indicated above
**GENERAL STRUCTURAL NOTES:**

**DESIGN LOADS AND STANDARDS:**

1. **DESIGN LOADS:**
   - **Dead Loads:**
     - Cast-in-place concrete: 40 PSF
     - Cast-in-place columns: 40 PSF
   - **Live Loads:**
     - Flat roof/beam line load: 10 PSF
     - City of Bozeman Minimum (C.O.B.M.)
   - **Building Code:**
     - Minimum: 15 lb/ft²
     - Typical: 20 lb/ft²
     - Maximum: 60 lb/ft²
   - **Ground Snow Load:**
     - 46 PSF (City of Bozeman Min.)
   - **Response Modification Factor, R:** 5
   - **Thermal Factor, Ct:** 1.0
   - **Mapped Acceleration Parameter:**
     - SS = 0.671
     - S1 = 0.214
   - **Seismic Response Coefficient, Cs:** 0.1138
   - **Seismic Importance Factor:** 1.0

**SITE CONDITIONS AND METHODOLOGY:**

3. **Site Conditions:**
   - **Excavations:**
     - **Minimum:** 10 ft
     - **Maximum:** 15 ft
   - **Groundwater:**
     - May be present during construction. The contractor is responsible for any and all dewatering.
   - **Soil Type:**
     - **Type A:** Marine clay
     - **Type B:** Stiff clay
     - **Type C:** Sand
   - **Soil Compaction:**
     - Can be compacted to 98% of ASTM D698 maximum dry density.

**GENERAL NOTES:**

1. **Structural Drawings:**
   - Structural drawings shall be used for bidding and construction. Contractor shall notify engineer of any discrepancies prior to bidding and construction.
   - Contractor shall check and coordinate with the owner for blockout, conduit, pipe, and engineering.
   - Existing building/site dimensions and assumed conditions are to be verified in the field and are for the convenience of the contractor. The contractor shall accept the conditions as existing and shall not be responsible for changes from the drawings.
   - Groundwater may be present during construction. The contractor is responsible for the contractor is responsible for developing all excavation dewatering plans.
   - Contractor is responsible for exporting all demo materials off the site.
   - The structure shall be adequately braced for soil, wind, earthquake, and construction loads until all floor, roof, and wall units have been permanently attached thereto.
   - **Data on indicated subsurface conditions are not intended as representations or warranties of continuity of such conditions. It is expressly understood that owner engineer will not be responsible for interpretations or conclusions drawn therefrom by the contractor.**
   - **Warranties of continuity of such conditions. It is expressly understood that owner engineer will not be responsible for interpretations or conclusions drawn therefrom by the contractor.**
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**CONCRETE:**

- **Mix Design:**
  - **Cement:**
    - **Minimum:** 28 day compressive strength 4000 psi
    - **Maximum:** 5000 psi
  - **Water/Cement Ratio:**
    - **Minimum:** 0.50
    - **Maximum:** 0.55
  - **Concrete placed:**
    - **Minimum:** 2000 psi
    - **Maximum:** 3000 psi
  - **Contraction Type:**
    - CAST-IN-PLACE

**REINFORCING STEEL:**

- **Reinforcement Spacing:**
  - **Maximum:** 10 in.
  - **Minimum:** 5 in.
- **Reinforcement Details:**
  - **Top bars:** any horizontal bars placed such that more than 12" of fresh concrete is in contact with them shall be provided to match the horizontal bars.
  - **Top bars:** any horizontal bars placed such that more than 12" of fresh concrete is in contact with them shall be provided to match the horizontal bars.
  - **Top bars:** any horizontal bars placed such that more than 12" of fresh concrete is in contact with them shall be provided to match the horizontal bars.
  - **Bottom bars:** any horizontal bars placed such that more than 12" of fresh concrete is in contact with them shall be provided to match the horizontal bars.
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  - **Bottom bars:** any horizontal bars placed such that more than 12" of fresh concrete is in contact with them shall be provided to match the horizontal bars.

**QUALITY CONTROL:**

- **Concrete Quality:**
  - **Minimum:** 28 day compressive strength 4000 psi
  - **Maximum:** 5000 psi
- **Reinforcement Quality:**
  - **Minimum:** 5000 psi
  - **Maximum:** 6000 psi
- **Aggregate:**
  - **Maximum:** 10 mm
  - **Minimum:** 5 mm
- **Water:**
  - **Maximum:** 5%
  - **Minimum:** 4%

**MATERIALS AND TESTS:**

- **Concrete:**
  - **Compressive Strength:**
    - **Minimum:** 28 day compressive strength 4000 psi
    - **Maximum:** 5000 psi
  - **Cement:**
    - **Minimum:** 28 day compressive strength 4000 psi
    - **Maximum:** 5000 psi
  - **Watershed:**
    - **Minimum:** 0.50
    - **Maximum:** 0.55
  - **Concrete Slump:**
    - **Minimum:** 6"
    - **Maximum:** 8"

**CAST-IN-PLACE CONCRETE:**

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Maximum</th>
<th>Minimum</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete</td>
<td>5000 psi</td>
<td>4000 psi</td>
</tr>
<tr>
<td>Rebars</td>
<td>6000 psi</td>
<td>5000 psi</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS:**

- **Concrete Placement:**
  - **Maximum:** 10 ft
  - **Minimum:** 5 ft
- **Reinforcement Placement:**
  - **Maximum:** 10 in.
  - **Minimum:** 5 in.
- **Concrete Quality:**
  - **Minimum:** 28 day compressive strength 4000 psi
  - **Maximum:** 5000 psi
- **Reinforcement Quality:**
  - **Minimum:** 5000 psi
  - **Maximum:** 6000 psi
- **Aggregate:**
  - **Maximum:** 10 mm
  - **Minimum:** 5 mm
- **Water:**
  - **Maximum:** 5%
  - **Minimum:** 4%

**LATERAL EARTH BEARING RESISTANCE (PASSIVE):**

- **200 PSF/FT**
### STATEMENT OF SPECIAL INSPECTION AND TESTING NOTES

1. SPECIAL INSPECTIONS shall be performed in accordance with the International Building Code (IBC), the American Society for Testing and Materials (ASTM) standards, and the requirements of this contract.

2. Required special inspections and tests of concrete construction are as follows:

<table>
<thead>
<tr>
<th>Task</th>
<th>Reference</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete Strength Test Specimen</td>
<td>ASTM C39</td>
<td>For each cube of concrete in two locations and at two different times required by the test methods</td>
</tr>
</tbody>
</table>

3. All special inspections shall be performed by an impartial and independent third party.

4. The contractor shall provide a list of all special inspections required by the plans and specifications.

5. SPECIAL INSPECTIONS shall be performed in accordance with the International Building Code (IBC), the American Society for Testing and Materials (ASTM) standards, and the requirements of this contract.

6. All special inspections shall be performed by an impartial and independent third party.

7. The contractor shall provide a list of all special inspections required by the plans and specifications.

8. SPECIAL INSPECTIONS shall be performed in accordance with the International Building Code (IBC), the American Society for Testing and Materials (ASTM) standards, and the requirements of this contract.

9. All special inspections shall be performed by an impartial and independent third party.

10. The contractor shall provide a list of all special inspections required by the plans and specifications.

### REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

<table>
<thead>
<tr>
<th>Task</th>
<th>Reference</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inspections of Reinforcing Steel Placement</td>
<td>ACI 318-14</td>
<td>Continuous</td>
</tr>
<tr>
<td>Special Inspections of Concrete Placement</td>
<td>ACI 318-14</td>
<td>Continuous</td>
</tr>
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### TESTING OF CONCRETE CONSTRUCTION

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**Note:** All special inspections shall be performed in accordance with the International Building Code (IBC), the American Society for Testing and Materials (ASTM) standards, and the requirements of this contract. All special inspections shall be performed by an impartial and independent third party. The contractor shall provide a list of all special inspections required by the plans and specifications.
STAGING AREA AND SITE ACCESS

CONTRACTOR TO VERIFY

EXISTING BUILDING

STAGING AND ACCESS PLAN

MONTANA STATE UNIVERSITY
BOZEMAN, MONTANA

PHONE: 406.994.5413
FAX: 406.994.5665

PPA#19-0210

STAGING AND ACCESS PLAN

02/01/2021

SHEET S0.2

DATE 02/01/2021
**DEMO NOTES**

1. **PROJECT DATUM ELEVATION = 0' - 0" AT TOP OF SLAB.** All spot elevations for foundation elements are in reference to the DATUM ELEVATION.

2. **CONTRACTOR TO FIELD VERIFY ALL ELEMENTS, DIMENSIONS, AND ELEVATIONS.**

3. **CONTRACTOR TO VERIFY ALL DIMENSIONS TO AND SIZES OF WALL & FLOOR OPENINGS AND PENETRATIONS.**

4. **CONTRACTOR TO VERIFY ALL ELECTRICAL PENETRATIONS AND ASSOCIATED CONDUITS.**

5. **EXISTING METAL STAIRS, RAILING AND GRATING TO BE REMOVED, REPAINTED AND REUSED WITH NEW CONSTRUCTION. SEE IMAGES.**

6. **EXISTING ELECTRICAL PANELBOARD AND ASSOCIATED CONDUITS. SEE IMAGE.**

7. **DUCT PENETRATION BELOW, SEE IMAGE.**

8. **EXISTING WOOD RAILING TO BE REMOVED, REPAINTED AND REUSED WITH NEW CONSTRUCTION. SEE IMAGE.**

**DEMO PLAN**

- **EXISTING CONCRETE WALL TO BE DEMOED**
- **EXISTING CONCRETE WALL TO REMAIN**
- **EXISTING CONCRETE WALL TO REPAIR**

**DEMO LEGEND**

- **EXISTING WALL**
- **EXISTING DOOR**
- **EXISTING ELECTRICAL PANELBOARD**
- **EXISTING METAL STAIRS, RAILING AND GRATING**

**DEMO PLAN**

- **EXISTING SLAB ON GRADE**
- **EXISTING BUILDING NOT SHOWN FOR CLARITY**
- **EXISTING RAMP RETAINING WALL, PROTECT DURING DEMO AND CONSTRUCT**
- **EXISTING RAMP RETAINING WALL, PROTECT DURING DEMO AND CONSTRUCT**
- **EXISTING RAMP RETAINING WALL, PROTECT DURING DEMO AND CONSTRUCT**
- **EXISTING RAMP RETAINING WALL, PROTECT DURING DEMO AND CONSTRUCT**
- **EXISTING RAMP RETAINING WALL, PROTECT DURING DEMO AND CONSTRUCT**

**REV. DESCRIPTION DATE**

- **NOTE A**
- **NOTE B**
- **NOTE C**
- **NOTE D**
- **NOTE E**
- **NOTE F**
- **NOTE G**
- **NOTE H**
- **NOTE I**
- **NOTE J**

**SHEET TITLE**: DEMO PLAN

**MONTANA STATE UNIVERSITY**

- **MSU-CPDC**
- **BOZEMAN, MONTANA**
- **PHONE: 406.994.5413**
- **FAX: 406.994.5665**

**MMI #: 0747.076**

**PWA#: 19-0219**

**DATE**: 02/01/2021
PHOTO NOTES:
1. EXISTING LOADING DOCK TO BE DEMOED AND REMOVED
2. EXISTING TRASH RECEPTACLE TO BE SALVAGED AND REUSED
3. EXISTING WOOD RAILING TO BE REMOVED, REPAINTED AND REUSED WITH NEW CONSTRUCTION
4. EXISTING STEEL ANGLE TO BE DEMOED AND REMOVED
5. EXISTING LOADING DOCK RAMP AND CURB - SEE ALTERNATE 1

PHOTO NOTES:
1. EXISTING LOADING DOCK TO BE DEMOED AND REMOVED
2. EXISTING STEEL STAIRS AND RAILING TO BE REMOVED, REPAINTED AND REUSED WITH NEW CONSTRUCTION
3. EXISTING WOOD RAILING TO BE REMOVED, REPAINTED AND REUSED WITH NEW CONSTRUCTION
4. EXISTING LOADING DOCK RAMP AND CURB - SEE ALTERNATE 1
5. EXISTING TREE TO REMAIN AND BE PROTECTED
PHOTO NOTES:
1. EXISTING LOADING DOCK TO BE DEMOED AND REMOVED
2. EXISTING MANHOLE LID TO BE DEMOED AND REMOVED
3. EXISTING LIGHT AND ELECTRICAL EQUIPMENT TO BE DEMOED AND REMOVED. CONTRACTOR TO PROVIDE SURFACE LIGHTS AND CONDUIT TO MATCH EXISTING LIGHTS PER PHOTO 1/SD1.3 WITH NEW CONSTRUCTION.

VAULT LIGHT IN NORTH ROOM

VAULT LIGHT IN SOUTH ROOM
NOTES:
1. SEE GENERAL STRUCTURAL NOTES FOR LAP LENGTHS.
2. AT CONNECTIONS TO EXISTING CONCRETE WALLS, DRILL AND EPOXY NEW CONCRETE WALL HORIZONTAL REINF. INTO EXISTING WALLS USING HILTI HIT HY 200 WITH 8" MIN. EMBED DEPTH.