



## **ADDENDUM NO. 2 - OUTLINE AND SUMMARY INFORMATION**

Project Name: Gaines Hall Water Main Replacement Phase 2 PPA No.: 23-0730  
Location: Montana State University - Bozeman Date: 11/20/2024  
Owner: State of Montana, MSU - Bozeman  
Plew Building 6<sup>th</sup> and Grant, PO Box 172760  
Bozeman, Montana 59717-2760

To: *All Plan Holders of Record*

*The Plans and Specification prepared by **Allied Engineering Services, Inc.** dated **October 2, 2024** 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 or alternate 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. In addition, the project will be awarded in accordance with the public bidding process. The contract for the Gaines Hall Water Main Replacement will be awarded to the lowest responsive and responsible bidder whose bid complies with the bid specifications. This Addendum forms part of the Contract Documents as if bound therein and modifies them as follows:*

### 1. AMENDMENTS TO THE PROJECT MANUAL

- a. See updated Invitation to Bid: Sealed bids will be received until **2:00PM on Tuesday, December 3, 2024**, and will be publicly opened and read aloud in the offices of **MSU University Facilities Management, Plew Building, 6<sup>th</sup> & Grant, Bozeman, Montana**, for: **Gaines Hall Water Main Replacement, PPA No. 23-0730**.
- b. See updated Invitation to Bid: Time of Completion: Bidder agrees to commence work on **May 12, 2025**, after the receipt of the Notice to Proceed and to substantially complete the project by **August 1, 2025**.

### 2. AMENDMENTS TO THE DRAWINGS

- a. Update: Project Schedule: Sheet C0.3, under *Specifications* note 1, *Dates for work to be completed are from **May 12<sup>th</sup>, 2025, to August 1<sup>st</sup>, 2025.***
- b. Clarification: Bid Alternative 1: Trenchless installation. The contractor shall propose an acceptable trenchless excavation method such as Horizontal Direction Drilling or Jack and Bore/Pilot Pipe Jacking such that it limits impacts to the existing utilities and mature trees in the area between Gaines Hall and Romney Hall, see sheet C1.3 and C2.1 for approximate extents. Casing pipe materials may be fused or continuous length DR11 HDPE or Grade B welded steel. Carrier pipe materials may be fused or continuous length 8" DR11 HDPE or 8" Class 51 Ductile Iron with mechanically restrained joints. Casing diameter shall provide clearance for chosen carrier pipe material with casing spacers and be coordinated with MSU and Engineer.

- c. Clarification/Update: Water Main Material: Sheet C0.3, under *Specifications* note 12,

*12.1 Trenchless Installation Materials: Casing pipe materials may be fused or continuous length DR11 HDPE or Grade B welded steel. Carrier pipe materials may be fused or continuous length 8" DR11 HDPE (DIPS), or 8" Class 51 Ductile Iron with mechanically restrained joints. Connections between HDPE and Ductile Iron shall be incidental to the work.*

*12.2 Standard Trench Installation Materials: Zinc coated pipe with V-Bio enhanced polyethylene encasement is the preferred material. Coordinate with MSU and the engineer for availability and timing. If necessary due to timing and product availability, standard ductile iron pipe with V-Bio enhanced polyethylene encasement may be used. All ductile pipe and fittings are to be wrapped with V-Bio enhanced polyethylene.*

- d. Clarification: Construction Staking: as noted on Sheet C0.3, under *Specifications* note 16, *The contractor shall coordinate staking needs with Allied Engineering. Control points will be provided for use near the project site. Staking for water improvements shall be provided by the owner. We anticipate up to 2 trips for staking items requested by the contractor. Additional staking trips will be at the cost of the contractor.*
- e. Clarification: Trench Backfill: as noted on Sheet C2.1, *Note: Trench backfill to be type A for all areas. Due to the density of improvements in the project vicinity, all trench backfill must be type A. Native material, provided it is not overly moist and is free of cinders, ash, refuse, organic or frozen material, boulders or other deleterious materials, may be used for trench backfill. See project specifications section 02221, Trench Excavation and Backfill for Pipelines & Appurtenant Structures for additional details.*

### 3. AMENDMENTS TO EQUIPMENT INFORMATION

- a. None.

### 4. PRIOR APPROVALS

- a. None.

### 5. ATTACHMENTS

- a. Updated Plan Sheet:
  - a. C0.3 SPECIFICATIONS

# SPECIFICATIONS:

- △ 1. PROJECT SCHEDULE: DATES FOR WORK TO BE COMPLETED ARE FROM MAY 12TH, 2025, TO AUGUST 1ST, 2025.
2. CONSTRUCTION INSPECTION AND TESTING: CONSTRUCTION INSPECTION AND TESTING WILL BE PERFORMED BY ALLIED ENGINEERING. THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO DAYS PRIOR TO CONSTRUCTION IN ORDER TO PROVIDE INSPECTION OF THESE ELEMENTS. THE CONTRACTOR SHALL MAINTAIN AS-BUILT RECORDS FOR FUTURE USE IN DEVELOPING RECORD DRAWINGS.
3. COORDINATION: THE CONTRACTOR SHALL COORDINATE WITH MONTANA STATE UNIVERSITY AND ALLIED ENGINEERING. AESI WILL BE REQUIRED TO INSPECT AND TEST CERTAIN ELEMENTS OF THIS PROJECT. THE CONTRACTOR SHALL ENSURE THAT ALL ENGINEER REQUIRED INSPECTIONS ARE ACCOMMODATED. SEE THE GENERAL NOTES FOR ADDITIONAL ITEMS PERTAINING TO COORDINATION, INSPECTION, AND AS-BUILTS.
4. PROJECT SUPERINTENDENT OR FOREMAN: THE CONTRACTOR SHALL HAVE EITHER A PROJECT SUPERINTENDENT OR FOREMAN THAT IS ON-SITE THE MAJORITY OF THE TIME. THIS INDIVIDUAL IS RESPONSIBLE FOR REVIEWING/UNDERSTANDING THE PLANS AND FOR DIRECTING THE WORK. FIELD CHANGES THAT ARE DIRECTED BY THE ENGINEER WILL BE CONVEYED TO THIS INDIVIDUAL FOR IMPLEMENTATION.
5.
  - 5.1. OPEN TRENCHES/HOLES: NO TRENCHES OR HOLES SHALL BE LEFT IN AN OPEN CONDITION OVERNIGHT. ALL SUCH TRENCHES AND HOLES SHALL BE BACKFILLED, COMPACTED, AND CLOSED BEFORE THE END OF EACH WORK DAY.
  - 5.2. CONSTRUCTION ON WEST GRANT STREET IS CURRENTLY ONGOING AND IS CLOSED FOR THE WORK. CONTRACTOR TO COORDINATE WITH THE CONSTRUCTION MANAGER/PROJECT SUPERINTENDENT OF THE GRANT STREET PROJECT FOR SITE ACCESS, STAGING, AND MATERIALS STORAGE.
6. TRAFFIC CONTROL: THE CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL NECESSARY TRAFFIC CONTROL DURING THE COURSE OF THE PROJECT. ALL ANTICIPATED TRAFFIC CONTROL MEASURES SHALL BE SUBMITTED BY THE CONTRACTOR TO THE PROJECT TEAM AND MUST BE APPROVED BY MSU AND THE PROJECT ENGINEER PRIOR TO ANY CONSTRUCTION ACTIVITY. CURRENTLY, W. GRANT STREET IS CLOSED FOR CONSTRUCTION. COORDINATE AS NOTED ABOVE FOR SITE ACCESS.
7. SHOP DRAWINGS: SHOP DRAWINGS WILL BE REQUIRED FOR ALL WET UTILITY, GRAVEL, CONCRETE, AND ASPHALT MATERIALS. THEY SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL. DRY UTILITY WORK WILL BE COMPLETED BY THE SERVICE PROVIDERS AND WILL NOT REQUIRE SHOP DRAWING SUBMITTALS.
8. CLEAN-UP: THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN A CLEAN JOB SITE.
9. FITTINGS: INSTALL ALL FITTINGS PER MANUFACTURER RECOMMENDATIONS.
10. RESTRAINTS: ALL BURIED VALVES AND FITTINGS SHALL BE RESTRAINED WITH THRUST BLOCKS OR MECHANICAL JOINT RESTRAINTS IN ACCORDANCE WITH THE PLAN DETAILS.
11. GAINES HALL WATER MAIN AS-BUILT MEASUREMENTS: GAINES HALL WATER MAIN REPLACEMENT WORK MUST HAVE FULL-TIME ENGINEER INSPECTION. THE ENGINEER WILL RECORD AS-BUILT MEASUREMENTS AND DOCUMENTATION DURING THE INSTALLATION AND TESTING OF THE NEW WATER MAIN.
12. WATER MAIN MATERIAL:
  - △ 12.1. TRENCHLESS INSTALLATION MATERIALS: CASING PIPE MATERIALS MAY BE FUSED OR CONTINUOUS LENGTH DR11 HDPE OR GRADE B WELDED STEEL. CARRIER PIPE MATERIALS MAY BE FUSED OR CONTINUOUS LENGTH 8" DR11 HDPE (DIPS) OR 8" CLASS 51 DUCTILE IRON WITH MECHANICALLY RESTRAINED JOINTS. CONNECTIONS BETWEEN HDPE AND DUCTILE IRON SHALL BE INCIDENTAL TO THE WORK.
  - 12.2. STANDARD TRENCH INSTALLATION MATERIALS: ZINC COATED PIPE WITH V-BIO ENHANCED POLYETHYLENE ENCASMENT IS THE PREFERRED MATERIAL. COORDINATE WITH MSU AND THE ENGINEER FOR AVAILABILITY AND TIMING. IF NECESSARY DUE TO TIMING AND PRODUCT AVAILABILITY, STANDARD DUCTILE IRON PIPE WITH V-BIO ENHANCED POLYETHYLENE ENCASMENT MAY BE USED. ALL DUCTILE PIPE AND FITTINGS ARE TO BE WRAPPED WITH V-BIO ENHANCED POLYETHYLENE.
13. IRRIGATION: THERE ARE MULTIPLE IRRIGATION LINES IN THE VICINITY OF THE PROJECT SITE. DAMAGE TO, DISRUPTION OR RELOCATION OF EXISTING IRRIGATION INFRASTRUCTURE WILL NEED TO BE COORDINATED WITH MSU FACILITY SERVICES. CONTRACTOR MAY BE RESPONSIBLE FOR WORK ASSOCIATED WITH IMPACTS TO EXISTING IRRIGATION INFRASTRUCTURE.
14. UTILITY CONFLICTS AND IMPROVEMENTS: THERE ARE MULTIPLE UTILITIES (WET AND DRY) IN THE VICINITY OF THE PROJECT SITE. IN ADDITION TO THE STANDARD ONE-CALL UTILITY LOCATE SERVICE, CONTRACTOR SHALL COORDINATE WITH MSU FACILITIES MANAGEMENT FOR ADDITIONAL UTILITY LOCATES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY DAMAGED OR DISTURBED UTILITY LINES. COORDINATE WITH MSU FACILITY SERVICES FOR OPERATION OF SYSTEM VALVES AND UTILITY CONNECTIONS.
15. TUNNEL ACCESS: A PORTION OF THE IMPROVEMENTS ARE LOCATED WITHIN THE UTILITY TUNNELS. CONTRACTOR TO COORDINATE WITH MSU FACILITY SERVICES FOR WORK ASSOCIATED WITH CONSTRUCTION, ACCESS, STAGING, AND MATERIALS STORAGE INSIDE THE TUNNEL.
16. CONSTRUCTION STAKING: THE CONTRACTOR SHALL COORDINATE STAKING NEEDS WITH ALLIED ENGINEERING. CONTROL POINTS WILL BE PROVIDED FOR USE NEAR THE PROJECT SITE. STAKING FOR WATER IMPROVEMENTS SHALL BE PROVIDED BY THE OWNER. WE ANTICIPATE UP TO 2 TRIPS FOR STAKING ITEMS REQUESTED BY THE CONTRACTOR. ADDITIONAL STAKING TRIPS WILL BE AT THE COST OF THE CONTRACTOR.
17. ABANDONMENT OF EXISTING WATER MAIN TO BE COORDINATED WITH MSU AND ALLIED ENGINEERING. IN LOCATION WHERE THE EXISTING WATER MAIN MATCHES THE ALIGNMENT OF THE PROPOSED WATER MAIN, REMOVAL AND DISPOSAL OF THE EXISTING WATER MAIN IS ANTICIPATED. IN LOCATIONS WHERE THE MAIN PASSES CLOSE TO OR UNDER EXISTING STRUCTURES OR UTILITIES, THE EXISTING WATER MAIN MAY BE ABANDONED IN PLACE AND FILLED WITH CONCRETE.



MSU-CPDC

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**GAINES HALL WATER MAIN REPLACEMENT PHASE 2**

CONSTRUCTION PLANS



DRAWN BY: EIJ, COL

REVIEWED BY: RSR

REV.	DESCRIPTION	DATE
2	ADDENDUM NO. 2	11/20/24

PPA#23-0730

A/E#00-00-00

AESI # 23-022

SHEET TITLE

**C0.3**

SHEET

SPECIFICATIONS

DATE

11/12/2024