

ADDENDUM No. 3

City of Moscow, ID Well 10 Development – Phase II

February 24, 2020

Addendum No. 3 to the **Moscow Well 10 Development – Phase II** Bidding Documents prepared by J-U-B ENGINEERS, Inc. is hereby submitted for use in bid preparation and Submittal.

The following clarifications, corrections, or changes are hereby made as fully and completely as if the same were entirely set forth in the Bidding Documents and shall become an integral part of the contract entered into between Owner and Contractor for this project.

Previous Addendum

Addendum 2

- **Modification:** Replace Page 5 of Addendum 2 with the sealed version attached to this addendum.

Volume II of III – Technical Specifications

Section 01500 FACILITIES AND TEMPORARY CONTROLS

- **Modification:** Part 1.12.B.1, modify first sentence by replacing “*the Engineer 48 hours*” with “*the Engineer 72 hours and Owner 48 hours*”.

Section 01650 STARTING OF SYSTEMS

- **Modification:** Part 3.2.B, replace “*seven (7) days*” with “*ten (10) days*”.
- **Modification:** Part 3.3.A, replace “*seven (7) days*” with “*ten (10) days*”.

Section 15060 PIPE AND PIPE FITTINGS

- **Modification:** Part 2.3.A, replace all of item A with, “*Not Used*”.
- **Modification:** Part 2.3, delete item B and C.

Section 15160 WELL PUMP

- **Modification:** Part 2.2.K, replace “*1 ¼-inch*” with “*1 ½-inch*”.

Section 16010 ELECTRICAL GENERAL

- **Modification:** Add paragraph 16010.2.1.D: “*Install lock out and breaker lockout stations in electrical room. Coordinate location with engineer*”.

Section 16130 RACEWAYS AND BOXES

- **Clarification:** Expansion fittings listed in paragraph 16130.2.2.F are only to be used where required by the NEC or Avista.

Section 16150 MOTORS

- **Modification:** Part 2.2.A.1, replace “600HP” with “800HP minimum”.
- **Modification:** Part 2.2.A.2, delete in its entirety.

Section 16443 MOTOR CONTROL CENTERS

- **Modification:** Part 3.13, delete in its entirety and replace with the following:
 - *“3.13 OPERATION AND MAINTENANCE TRAINING
A. Operation and maintenance training shall be per Section 01650 and Section 16483.3.4. In addition to VFC training, the training session shall include enclosed controllers and circuit breakers.”*

Section 16483 VARIABLE FREQUENCY CONTROLLERS

- **Modification:** Add the following paragraph 16483.2.3.B:
 - “B. In addition to the acceptable VFC described in paragraph 16483.2.3.A, the following 6 pulse VFC with active/passive filter solution will be acceptable:
 1. *Manufacturers: Subject to compliance with requirements, provide products by Allen-Bradley, PowerFlex 755T Drive with Active Front End; Eaton CFX passive filter variable frequency drives; ABB ultra-low harmonic drives; or approved equal. Provide Motor Controller with integrated variable frequency controller and harmonic filter.*
 2. *Harmonic Analysis Study and Report: Comply with IEEE 399 and NETA Acceptance Testing Specification; identify the effects of nonlinear loads and their associated harmonic contributions on the voltages and currents throughout the electrical system. Analyze designated operating scenarios, including recommendations for VFC input filtering to limit TDD and THD(V) at the defined PCC to specified levels.*
 3. *Input Line Conditioning: Based on the harmonic analysis study and report, provide input filtering, as required, to limit TDD and THD(V) at the defined PCC per IEEE 519.*
 4. *Enclosure shall fit in the space allocated on the drawings.*
 5. *Provide all required devices, wiring and labor to provide a fully functional system meeting all safety and electrical code requirements.”*
- **Modification:** Add the following sentence to paragraph 16483.3.4.B:
 - *“Contractor shall digitally record the training session, both video and audio for future use by the owner.”*

Section 16921 CONTROL SYSTEM

- **Modification:** Part 1.13.A.9, delete item 9 (Technical System Inc. is listed twice).
- **Modification:** Replace paragraph 16921.2.8.A with the following:

- *“Outdoor, LED dual-mode visual indicator warning light, polycarbonate/ABS shatter resistant lens, 120V with mounting bracket, UL listed type 4X corrosion resistant. Unit shall be Edwards Signaling 48XBRM Series, Model 48XBRMR120A, or equal.”*
- **Modification:** Add the following paragraph as 16921.2.20
 - *“2.20 OIL LEVEL SWITCH
A. (PL-LS-100-1) Provide adjustable float switch, brass stem, Buna-N float, 2” NPT top mount, Madison Model # M4302-7807-1, or equal.”*

Volume III of III – Plans

Sheet G-005

- **Modification:** MOSCOW WATER SYSTEM NOTES, Note 2, replace with the following:
 - *“2. CONTRACTOR SHALL INSTALL LOCATING WIRES ON BURIED WATER PIPE AND WATER SERVICES PER ISPWC STANDARDS, AND THE WIRE SHALL BE 10 GAUGE.”*

Sheet CU-101

- **Modification:** Sheet CU-101 is reissued as part of this addendum and is attached.

Sheet CU-103

- **Addition:** Add note pointing to sewer manhole (indicated with CU21 key note) reading
 - *“RIM: 2609.88
INVERT: APPRX. 5’ BGS
WILL BE DEPENDANT ON CONTRACTOR
WELL HOUSE FLOOR DRAIN DESIGN”*

Sheet CU-101

- **Modification:** Modify MET MH-01 Manhole information to replace “18”” with “10””.

Sheet CU-501

- **Modification:** Modify Detail 4 to be numbered Detail 3.
- **Modification:** Detail 4: Modify callout “48” Ø PIPE” to read “48” Ø PIPE, TO BE CMP OR HDPE”.

Sheet D-502

- **Modification:** Detail 7, Note 6, replace “PROVIDE (2) 1-1/4”” with “PROVIDE (2) 1-1/2””.

Sheet E-101

- **Clarification:** Detail 7, Note 6, replace “PROVIDE (2) 1-1/4”” with “PROVIDE (2) 1-1/2””.

Sheet D-502

- **Modification:** Detail 7, Note 6, replace “PROVIDE (2) 1-1/4”” with “PROVIDE (2) 1-1/2””.

Questions

1. Sheet E-101 – N7 – Spare conduits provided by Avista – Do these conduits still need to be installed?
 - a. AEI Response: The Avista conduit highlighted in note N7 are existing.
2. Sheet E-102 – N-11 – F-1 Existing? What Avista conduits need to be Installed & buried?
 - a. AEI Response: The spare Avista conduits mentioned in notes N10 and N11 are existing. Contractor shall provide conduits “F-1”, coordinating installation with Avista.
3. In the Division 16 specs it calls out a “Lock-Out” board. Is that a permanently installed item?
 - a. AEI Response: Yes, the Electrical lockout station described in specification section 16010-2.1 is permanent.
4. Section 16130-4-I 1&2 - Are expansion joints required for all surface and buried conduits? Please expand the explanation
 - a. AEI Response: No, expansion joints are not required in every conduit run. Specification section 16130 is a general installation specification. Expansion joints would only be required if applicable specifically based on requirements of 16130-3.5.M.
5. Section 2.11 of Foundations and Structural Concrete has mix designs that are different than Sheet S-001 (7. Foundations C.). Which one is correct?
 - a. Mixes called for on Sheet S-001 control.
6. Are there rim and invert elevations for the sewer manhole called out with note CU21 on sheet C-103?
 - a. See modification above (rim elevation added to sheet C-103). The invert elevation will be controlled by the floor drain design which is a Contractor submittal. We estimate it will be approximately 5 feet from finished grade to manhole invert.
7. Sheet CU-101, manhole MET MH-01, it shows 18” in and out pipe, but isn’t that 10”?
 - a. Yes, that is a 10” pipe in and out. See modification above.
8. CU-202, CB-3 and CB-4, are those hooded or non-hooded?
 - a. All CBs (CB-1 thru CB-4) should have hooded inlets. CB-1 & CB-2 should have directional curved vane grates and CB-3 & CB-4 should have bi-directional curved vane grates.

- 9. Where is the 48" attenuation structure specified and will corrugated metal be allowed?
 - a. See modification above. Yes, corrugated metal pipe will be allowed.
- 10. I am having a hard time finding any spec on the prelube level switch (PL-LS-100). I also do not see anything on the drawings showing a depth requirement.
 - a. See modification above (Section 16921).

NOTICE is hereby given that this Addendum must be signed and enclosed with a sealed bid for the Moscow Well 10 Development – Phase II, as evidence that the Bidder has familiarized himself/herself with all changes incorporated herein.

NAME OF BIDDER: _____

By:

Signature

Date

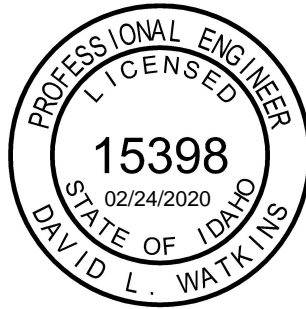
Name

Title

Submitted by:

J-U-B ENGINEERS, Inc.

David Watkins, P.E.



14. What is the liquidated damages amount and when would they be implemented?
 - a. Liquidated damages for this project are set at \$1,500, see Addendum 1. Substantial completion is date beyond when liquidated damages can be applied, refer to Article 3 of the Agreement for the exact language.
15. The pump-to-waste line in the building does not have much room and doesn't include a spool to provide flexibility during construction.
 - a. Correct, there is limited space on the pump-to-waste line. Generally there are modifications we would consider during construction in order to accommodate constructability. For example, we would consider the 10" tee moving to the vertical position and additional 6" fitting can connect the pressure relief line down to it, or the vertical pipe could be moved east slightly and then a spacer could be used to make up the difference.

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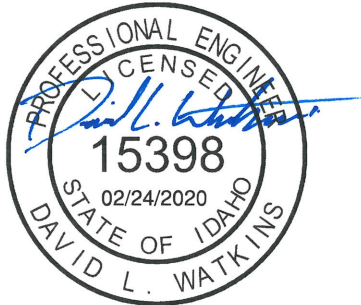
NAME OF BIDDER: _____

By:

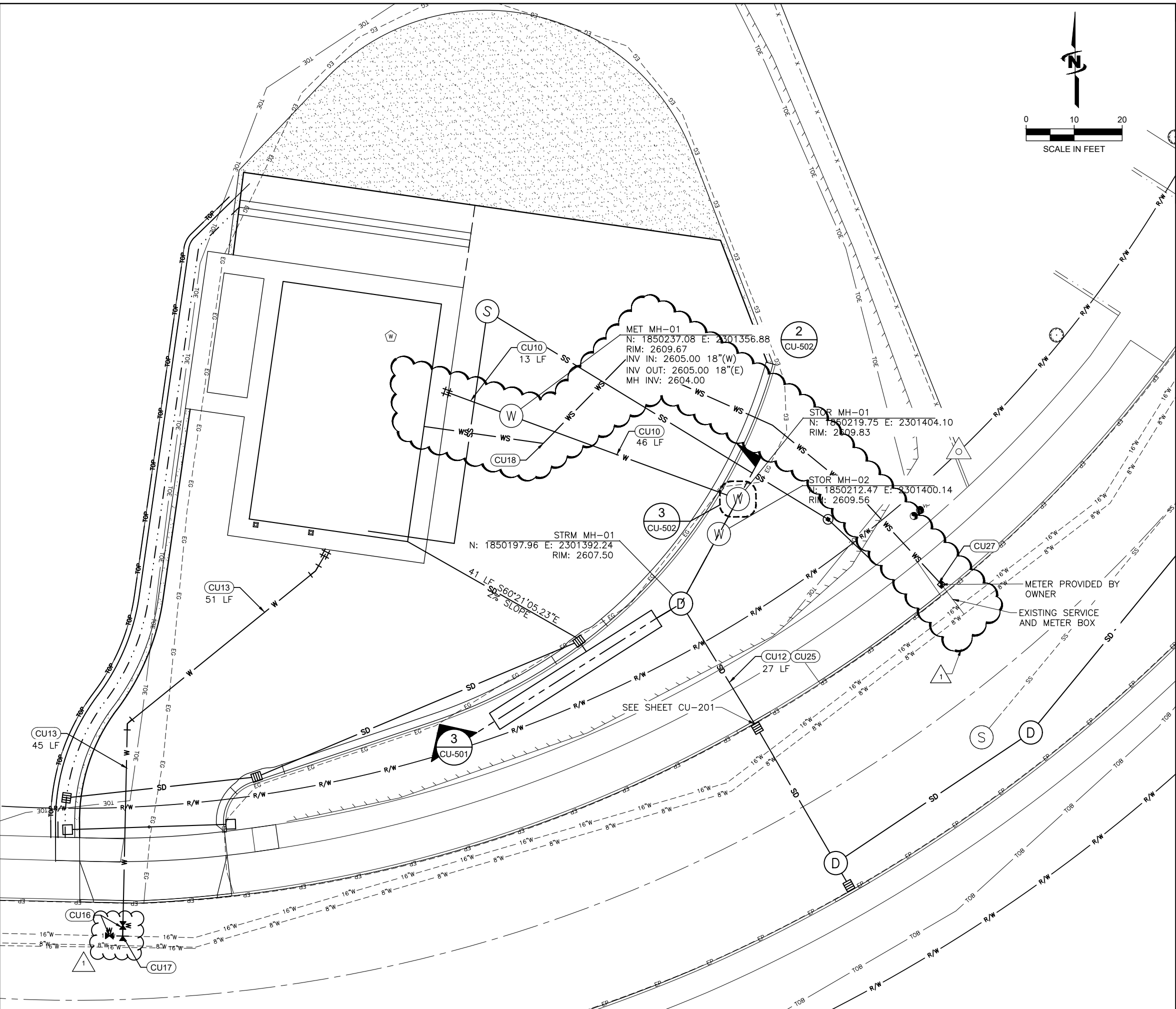
Signature	Date
Name	Title

Submitted by:

J-U-B ENGINEERS, Inc.
David Watkins, P.E.



Plot Date: 2/21/2020 8:59 AM Plotted By: Brent Biegler
 Date Created: 1/28/2020 10:04:15 AM Project: JUB21-17-005 - MOSCOW WELL NO. 10 - PHASE II (CIVIL) SHEET CIVIL101-17-005 - CU-101.DWG



KEYED NOTES: (THIS SHEET)	
CU10	10" DI WATER MAIN PIPE, BURIED
CU12	15" SDR 35 PVC PIPE, BURIED
CU13	16" DI WATER MAIN PIPE, BURIED
CU16	16" BUTTERFLY VALVE, BURIED, WITH ISWPC VALVE BOX
CU17	16" DI TEE, INSERT ON EXISTING MAIN, ADDITIONAL FITTINGS AS NEEDED, PROVIDE THRUST BLOCK
CU18	2" WATER SERVICE, PER CITY STANDARD; MSCD-29. FIELD ROUTE INTO BUILDING AS NEEDED, SEE SHEET, D-101 FOR LOCATION IN BUILDING
CU25	CITY STANDARDS; SIDEWALK, MSCD-7. REPAIR TO CLOSEST JOINTS.
CU27	CONNECT TO EXISTING WATER SERVICE PER CITY STANDARDS MSCD-29. ADDITIONAL FITTINGS AND METER SETTER AS NEEDED.

- WATER UTILITY NOTES:**
- ALL BURIED WATER MAIN DI FITTINGS SHALL BE FULLY RESTRAINED WITH THRUST BLOCKS PER CITY STANDARDS MSCD-31 OR APPROVED RESTRAIN GASKETS PER THE SPECIFICATIONS.
 - ALL PRESSURIZED WATER PIPES, FITTINGS, VALVES, AND APPURTENANCES SHALL BE RATED FOR A MINIMUM WORKING PRESSURE OF 180psi.
 - ALL BURIED WATER MAINS SHALL HAVE A MINIMUM BURY DEPTH OF 4 FT.
 - WATER AND SEWER SERVICE LINE SEPARATION SHALL MEET CITY STANDARD SPECIFICATION ES-23, AND ISWPC STANDARD DETAIL SD-407

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ORIGINAL SIGNED
 BY: DAVID L. WATKINS
 15398
 DATE ORIGINAL SIGNED: 2/20/2020

NO.	ADDENDUM NO.	3	DESCRIPTION	BY	DATE
1					

CITY OF MOSCOW
 WELL 10 DEVELOPMENT - PHASE II
 CIVIL UTILITIES (CU)
 WATER UTILITY PLAN

FILE: 21-17-005 - CU-101X
 JUB PROJ. #: 21-17-005
 DRAWN BY: BSB
 DESIGN BY: DLW
 CHECKED BY: ---
 AT FULL SIZE, IF NOT ONE INCH SCALE ACCORDINGLY
 LAST UPDATED: 2/21/2020
 SHEET: **011** 1
 DRAWING: **CU-101**