

**ADDENDUM 2
TO THE CONTRACT PROVISIONS AND CONTRACT PLANS**

**FOR
CITY OF MORTON
WWTF IMPROVEMENTS
G&O #15008**



ISSUED THIS DATE: FRIDAY, FEBRUARY 12, 2021

**REVISED BID OPENING: 2:00 P.M. (LOCAL TIME) ON
THURSDAY, FEBRUARY 18, 2021
CITY OF MORTON, LYLE COMMUNITY CENTER
700 MAIN AVENUE
MORTON, WASHINGTON 98356**

Bidder shall acknowledge receipt of this Addendum on Page P-6R of the Proposal.

TO PROSPECTIVE BIDDERS:

The attention of all prospective bidders on the above project is directed to the following additions and modifications to the Contract Provisions and Contract Plans.

I. ADDITIONS, MODIFICATIONS, AND/OR DELETIONS TO THE PROPOSAL

ITEM 1:

DELETE the Proposal (pages P-1R through P-7R, Addendum 1) in its entirety and **REPLACE** with the attached Proposal (pages P-1R through P-8R, Addendum 2). **Changes include:**

1. **Schedule A, Add New Bid Item 8, Hyperbolic Mixer**

II. ADDITIONS, MODIFICATIONS, AND/OR DELETIONS TO THE TECHNICAL SPECIFICATIONS

ITEM 1:

Page 01200-4, Specification Section 01200-1.4, A. SCHEDULE A:
WASTEWATER TREATMENT FACILITY

ADD the following paragraph at the end of this section:

- “8. HYPERBOLIC MIXERS

1. Measurement: Will be measured by lump sum
2. Payment: The lump sum contract price for the HYPERBOLIC MIXERS shall include for the equipment as delivered to the site as manufactured by Invent.”

ITEM 2:

DELETE Specification Section 11200 in its entirety and **REPLACE** with the attached Specification 11200.

ITEM 3:

Page 15120-3, Specification Section 15120-2.3 C., DISCS

REVISE the last paragraph (added text is italicized, deleted text is shown as strikeout)

~~“Operation of the gate shall be by means of a handwheel or crank operated bench stand mounted on the yoke of the gate mounted on a pedestal as shown on the Plans.”~~

III. ADDITIONS, MODIFICATIONS, AND/OR DELETIONS TO THE CONTRACT PLANS

ITEM 1:

SHEET M-3, MISCELLANEOUS DETAILS

REVISE the slide gate schedule, stem to be (both gates):

“RISING”

REVISE the slide gate schedule, Operator Type to be (both gates):

“RISING”

ITEM 2:

SHEET M4-3, AREA 04 MODIFICATIONS PLAN

REVISE the callout on the 1.5" NPW return line to the UV disinfection effluent chamber to be:

“2" NPW”

ITEM 3:

SHEET M4-4A, UV DISINFECTION PLAN AND SECTION ALTERNATIVE A

REVISE the callout on the 1.5" NPW return line to the UV disinfection effluent chamber on the UV DISINFECTION PLAN to be:

“2" NPW”

REVISE the callout on the 1.5" NPW return line to the UV disinfection effluent chamber on the SECTION A to be:

“2" NPW”

ITEM 4:

SHEET M4-4B, UV DISINFECTION PLAN AND SECTION ALTERNATIVE B

REVISE the callout on the 1.5" NPW return line to the UV disinfection effluent chamber on the UV DISINFECTION PLAN to be:

“2" NPW”

REVISE the callout on the 1.5" NPW return line to the UV disinfection effluent chamber on the SECTION A to be:

“2" NPW”

ITEM 5:

SHEET M4-5, UV DISINFECTION SECTIONS AND DETAILS

REVISE the callout on the 1.5" NPW return line to the UV disinfection effluent chamber on the SECTION A to be:

“2" NPW”

ITEM 6:

SHEET M4-7, SOLIDS HANDLING BUILDING EQUIPMENT ROOM ENLARGED PLAN

REVISE the callout on the 1.5" NPW return line to the UV disinfection effluent chamber to be:

“2" NPW”

REVISE the “1.5" NPW” in Note 4 to be:

“2" NPW”

ITEM 7:

SHEET M4-9, SOLIDS HANDLING BUILDING SECTIONS AND DETAILS

REVISE the callout on the 1.5" NPW return line to the UV disinfection effluent chamber on the SECTION C to be:

“2" NPW”

ITEM 8:

SHEET M5-1, OXIDATION DITCH AERATION BLOWERS PLAN AND SECTIONS

REVISE Note 1 to be:

“40 FEET”

ITEM 9:

SHEET E-5, PULLHOLE BUTTERFLY DIAGRAMS

REVISE the conduit size of conduits N23, N24, W7 and W8 of Pullhole No. P1 to be “1-1/4” in lieu of “1.”

ITEM 10:

SHEET E-6, PULLHOLE BUTTERFLY DIAGRAMS

REVISE the conduit size of conduits S10, S11, E4, and E5 of Pullhole No. P2 to be “1-1/4” in lieu of “1.”

ITEM 11:

SHEET E-16, ONE LINE DIAGRAMS – MOTOR CONTROL CENTER MCC A1 AND MCC A2

REVISE OLD 9/E-16 to have a motor circuit of #10 conductors in lieu of #12 conductors. The control conductor size and conduit size remain as shown.

ITEM 12:

SHEET E-17, ONE LINE DIAGRAMS – MOTOR CONTROL CENTER MCC A1 AND MCC A2

REVISE OLD 7/E-17 to have a motor circuit of “#8 VFD Cable, 1-1/4”C” in lieu of “#12 VFD Cable, 1”C.”

REVISE OLD 8/E-17 to have a motor circuit of “#10 VFD Cable, 1”C” in lieu of “#12 VFD Cable, 1”C.”

REVISE OLD 11/E-17 to have Hyberbolic Mixer No. 3 have a motor power circuit of “#10 conductors” in lieu of “#12 conductors.” The control conductor size and conduit size remain as shown. The motor circuits for Hyberbolic Mixers No. 1 and No. 2 shall remain as #12 conductors.

WWTF IMPROVEMENTS

PROPOSAL

City of Morton
250 Main Avenue
Morton, Washington 98356

The undersigned has examined the Work site(s), local conditions, the Contract, and all applicable laws and regulations covering the Work. The following unit and lump sum prices are tendered as an offer to perform the Work in accordance with all of the requirements set forth in the Contract and all applicable laws and regulations.

As required by the Contract, a postal money order, certified check, cashier's check or Proposal bond made payable to the Owner is attached hereto. If this Proposal is accepted and the undersigned fail(s) or refuse(s) to enter into a contract and furnish the required performance bond, labor and material payment bond, special guarantee bonds (if required), required insurance and all other required documentation, the undersigned will forfeit to the Owner an amount equal to five percent of the Proposal amount.

After the date and hour set for submitting the Proposals, no bidder may withdraw its Proposal, unless the Award of the contract is delayed for a period exceeding 60 consecutive calendar days.

The undersigned agrees that in the event it is Awarded the contract for the Work, it shall employ only Contractors and Subcontractors that are duly licensed by the State of Washington and remain so at all times they are in any way involved with the Work.

The undersigned agrees that the Owner expressly reserves and retains the right to reject any or all Proposals and to waive any minor irregularities and informalities in any Proposal.

The undersigned agrees that the Owner will Award the Contract to the lowest responsible, responsive bidder whose Proposal is in the best interest of the Owner. The Owner will determine at the time of award which Additive items, if any, will be included in the final Contract.

SCHEDULE A: WASTEWATER TREATMENT FACILITY

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
1.	Mobilization and Demobilization	1 LS	\$ _____	\$ _____
2.	Wastewater Treatment Facility Improvements	1 LS	\$ _____	\$ _____
3.	Trench Excavation Safety Systems	1 LS	\$ _____	\$ _____
4.	Unsuitable Excavation	20 CY	\$ _____	\$ _____
5.	Outfall Access Road	250 TN	\$ _____	\$ _____
6.	Minor Changes	1 CALC	\$40,000.00	\$40,000.00
7.	FKC Screw Press*	1 LS	\$ _____	\$ _____
8.	Hyperbolic Mixers	1 LS	\$ _____	\$ _____
Subtotal (Schedule A):				\$ _____
Washington State Sales Tax (7.8%):.....				\$ _____
TOTAL CONSTRUCTION COST (SCHEDULE A):.....				\$ _____

*This item includes all equipment, installation (electrical, mechanical piping labor) and services described in Section 11363 as bid for a screw press manufactured by FKC, Co. LTD.

ADDITIVE ITEM, SCHEDULE B: OXIDATION DITCH CLEANING

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
1.	Mobilization and Demobilization	1 LS	\$ _____	\$ _____
2.	Oxidation Ditch Cleaning and Temporary Treatment	1 LS	\$ _____	\$ _____
3.	Oxidation Ditch Sludge Removal	278,000 GAL	\$ _____	\$ _____
4.	Crack Sealing	500 LF	\$ _____	\$ _____
5.	Minor Structural Repairs	1,270 SF	\$ _____	\$ _____
6.	Major Structural Repairs	130 SF	\$ _____	\$ _____
7.	Wall/Slab Joint Repair	350 SF	\$ _____	\$ _____
8.	Minor Changes	1 CALC	\$25,000.00	\$25,000.00
Subtotal (Schedule B):				\$ _____
Washington State Sales Tax (7.8%):.....				\$ _____
TOTAL CONSTRUCTION COST (SCHEDULE B):				\$ _____

ADDITIVE ITEM, SCHEDULE C: OXIDATION DITCH CLEANING

<u>NO.</u>	<u>ITEM</u>	<u>QUANTITY</u>	<u>UNIT PRICE</u>	<u>AMOUNT</u>
1.	Huber Screw Press Alternate**	1 LS	\$ _____	\$ _____
Subtotal (Schedule C):			\$ _____	
Washington State Sales Tax (7.8%):.....			\$ _____	
TOTAL CONSTRUCTION COST (SCHEDULE C):			\$ _____	

**This item is the difference in cost between Base Bid Item 7 (FKC Screw Press) and the Huber Screw Press; for all equipment, installation (electrical, mechanical, piping and labor) and services described in Section 11363 as bid for a screw press manufactured by Huber Technology. A negative cost difference should be shown in parenthesis. The lack of a bid amount entered for this item will not cause rejection of the Base Bid shown above.

BID SUMMARY

1. TOTAL CONSTRUCTION COST
(SCHEDULE A forwarded from page P-2R): \$ _____
2. TOTAL CONSTRUCTION COST
(ADDITIVE ITEM, SCHEDULE B forwarded
from page P-3R): \$ _____
3. TOTAL CONSTRUCTION COST
(ADDITIVE ITEM, SCHEDULE C forwarded from above):.. \$ _____

Note: A bid must be received on all items.

STATEMENT OF BIDDER'S QUALIFICATIONS

Name of Firm: _____

Address: _____

Telephone No. _____ Fax No. _____

Contact Person for this Project: _____

E-mail: _____

Number of years the Contractor has been engaged in the construction business under the present firm name, as indicated above:

WORK TO BE COMPLETED BY BIDDER

List the Work and the dollar amount thereof that the Bidder will complete with its forces, if awarded the contract.

Work to be Performed	Dollar Amount

PROPOSED SUBCONTRACTORS (Per RCW 39.30.060)

For Proposals exceeding one million dollars, indicate who (either the Contractor submitting this bid or a subcontractor) will be completing the work for each of the five categories listed below. Information shall include their Washington State Department of Licensing Contractor's Registration No. This information shall be provided with the Proposal or within one hour after the published Proposal submittal time in accordance with RCW 39.30.060.

Work to be Performed	Subcontractor or Prime (Name and Registration Number)
Heating, Ventilation and Air Conditioning	
Plumbing	
Electrical	
Structural Steel Installation	
Rebar Installation	

ADDENDA RECEIVED

Addendum No.	Date Received	Name of Recipient

NOTE: Bidder shall acknowledge receipt of all addenda. Bidder is responsible for verifying the actual number of addenda issued prior to submitting a Proposal.

Subject to any extensions of the Contract time granted under the Contract, the undersigned agrees to substantially complete the Work required under this Contract within 360 working days (the Substantial Completion Date) and to physically complete the Work required under this contract within 390 working days (the Physical Completion Date) from when Contract Time begins.

The undersigned has reviewed and fully understands the provisions in the Contract regarding liquidated damages and agrees that liquidated damages shall be \$1,000.00 per day for each and every working day beyond the Contract time allowed for substantial completion until the

Substantial Completion Date is achieved and \$500.00 for each and every working day required beyond the Contract Time for physical completion until the Physical Completion Date is achieved.

The undersigned is, and will remain in, full compliance with all Washington State administrative agency requirements including, but not limited to registration requirements of Washington State Department of Labor & Industries for contractors, including but not limited to requirements for bond, proof of insurance and annual registration fee. The undersigned's Washington State:

Dept. of Labor and Industries Workman's Compensation Account No. is _____;
Dept. of Licensing Contractor's Registration No. is _____;
Unified Business Identifier Number is _____;
Excise Tax Registration Number is _____; and
Employment Security Account Number is _____.

The undersigned has reviewed all insurance requirements contained in the Contract and has verified the availability of and the undersigned's eligibility for all required insurance. The undersigned verifies that the cost for all required insurance, has been included in this Proposal.

In relation to claims related in whole or in part to workplace injuries to employees, the undersigned waives any immunity granted under the State Industrial Insurance Law, RCW Title 51. This waiver has been specially negotiated by the parties, which is acknowledged by the undersigned in signing this Proposal.

By signing the proposal, the undersigned declares, under penalty of perjury under the laws of the United States and the State of Washington, that the following statements are true and correct:

1. That the undersigned person(s) or entity(ies) has(have) not, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with the project for which this Proposal is submitted.

2. The bidder hereby certifies that, within the three-year period immediately preceding the bid solicitation date (January 25, 2021), that the bidder is not a "willful" violator, as defined in RCW 49.48.082, of any provision of chapters 49.46, 49.48, or 49.52 RCW, as 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.

SECTION 11200

NON-POTABLE WATER SUPPLY SYSTEM

PART 1 GENERAL

1.1 SCOPE

The work included under this section consists of all labor, tools, equipment, and services necessary to furnish, install, and test a non-potable water system, including pumps, and all related appurtenances.

1.2 RELATED WORK SPECIFIED ELSEWHERE

<u>Section</u>	<u>Item</u>
01300	Submittals
01800	Testing, Commissioning, and Training
09900	Painting
11000	Equipment General Provisions
11010	Vibration and Critical Speed Limitations
11345	Sodium Hypochlorite System
15050	Piping Systems
15100	Valves
Division 16	Electrical

1.3 EQUIPMENT LIST

Equipment numbers are as follows:

<u>Item</u>	<u>Equipment Number</u>
Non-Potable Water Pump 1	04 NPW 01
Non-Potable Water Pump 2	04 NPW 02

1.4 PERFORMANCE REQUIREMENTS

Each pump in the supply system shall be capable of meeting the following performance requirements:

Capacity	Total Head (Feet)
Shutoff, 0 gpm	<200
Design Operating Point, 110 gpm	180
Minimum Pump Efficiency	70 percent
Maximum Pump Speed	1,800 rpm

PART 2 PRODUCTS

2.1 APPROVED MANUFACTURERS

The non-potable water pumps shall be Hydroflo Model 7LH, or equivalent equipment manufactured by Fairbanks Morse, Johnston, Peerless, or equal.

The structural, mechanical and electrical designs shown on the Plans are based on the equipment manufactured by Hydroflo. Any modifications to the mechanical, structural, electrical, instrumentation and control and other portions of work that may be required to adapt the general layout and details shown on the Plans to the equipment actually furnished shall be at no additional cost to the Owner. All necessary revisions shall be made at Contractor's sole expense. All redesign information prepared by the contractor shall be submitted for review prior to incorporating the redesign into the work.

In order to ensure uniform quality, product functionality, and ease of maintenance; all of the equipment specified in this Section shall be supplied by a single manufacturer. The Contractor shall be responsible for ensuring a complete and workable installation.

2.2 PUMPS

Discharge head shall be below grade and shall be of fabricated steel. The discharge flange shall be machined and drilled to ANSI 125# standards. Discharge connection shall be 4 inches nominal diameter. Motor stand shall be above grade and shall be fabricated steel materials.

The column shall consist of a flanged column, lineshaft, lineshaft coupling, bearing retainer, and bearing. The column lineshaft shall consist of interchangeable sections not longer than 10 feet in length and shall be AISI 416 stainless steel.

The pump bowls shall be of cast iron, having a minimum tensile strength of 30,000 pounds per square inch, free of faults, accurately machined and fitted to close dimensions. Bowls are to be coated inside with a smooth vitreous enamel to reduce friction losses, corrosion, and sand wear in the water passages. The impellers shall be bronze ATM B564 or 201 stainless steel material, enclosed type, trimmed to appropriate diameters, and balanced. Impellers shall be affixed to the pump shaft keys, fitted with replaceable bronze rings, with collet design and dynamically balanced to specification ISO 1940/1G6.3.

The suction of the pump shall be fitted with a suction bell, strainer, and vortex breaker. Vortex breaker orientation, size, and attachment shall be as determined by the pump manufacturer.

The shaft shall be machined so that maximum runout in 10 feet shall not exceed 0.005 and so that maximum permissible axial misalignment of the thread axis within the shaft axis is 0.002-inch in 6 inches. The shaft shall be appropriately sized in accordance with the latest edition of AWWA E-101.

The shaft shall be supported by spiral grooved bearings with bronze retainers, spaced with a maximum spacing of 5 feet. The shaft shall provide bearing protection.

The pump shaft shall be A584 grade 416 stainless steel, turned, ground, and polished. The shaft shall be supported by dual bronze bearings (on all intermediate stages). Shaft diameter shall be in accordance with AWWA E101.

The thrust bearing shall be furnished to provide a 5-year average life, as calculated by the B10/L10 methods, under design conditions and shall be capable of handling the maximum thrust load at shutoff head and shall be capable of momentary upthrust equal to 30 percent of rated downthrust at startup.

2.3 PUMP MOTORS

The motor shall be NEMA standard design B, vertical hollow shaft, squirrel cage induction, full voltage type. Motor shall be 10 hp, 1,800 rpm, 460 volt, 3 phase, 60 Hz, with a 1.15 service factor and class F insulation with an actual field temperature rise of NEMA class B at the rated horsepower. The nameplate horsepower of the motor (excluding service factor) shall exceed the actual pump input power for all possible combinations of head and flow of the pump. Motor shall conform to AIEE and NEMA standards. The thrust bearing life expectancy shall have a five year average rating based on 24 hours per day usage. Bearings shall be oil or grease lubricated as per manufacturer's standard design. Each motor shall be provided with a corrosion-resistant nameplate giving the name of the manufacturer, horsepower, voltage, frequency, speed, efficiency, and current for unit at full load.

Motor shall meet the efficiency requirements of the Washington State Energy Code (Washington Administrative Code, Title 51, Chapter 51-11) table 14-4, regardless of whether or not a particular motor is exempted from meeting this efficiency by the Washington State Energy Code.

Motors shall meet the electrical requirements of WAC 296-46B-430 Motors, motor circuits and controllers, 007 Markings on motors and multi-motor equipment.

If any motor fails during the warranty period, the Contractor shall replace the motor with a new motor. Rewinding a failed motor shall not be acceptable.

Motor manufacturer shall verify that the submitted motor is suitable for use with the motor starting method shown in the Plans.

Motor shall be manufactured by U.S. Motors, Baldor, Reliance, or Toshiba/Houston. No other motor manufacturers shall be accepted.

2.4 NPW FILTER

Filter shall be suitable for non-potable water application and include a steel body, flange connections, molded stainless steel screen with 500-micron filter, a maximum working pressure of at least 140 psi and NBR/nylon inner materials. Filter shall be Amiad Brushaway or equal. Filter shall include clogging indicator or other suitable equipment to identify when the filter must be cleaned. Filter element shall be cleanable with the system in operation.

2.5 PAINTING

All surfaces to be painted shall be prepared and primed to receive final field painting in accordance with Section 09900. Nameplates, drain holes, vent openings, or lubrication fittings shall not be painted.

2.6 FACTORY TESTING

The pumps shall be fully tested on water at the manufacturer's plant before shipment. Tests shall consist of checking the unit at its rated speed, head, capacity, efficiency and brake horsepower, and at such other conditions of head and capacity to properly establish the performance curve. Certified copies of test curves and report shall be submitted to the Engineer prior to shipment. The Standards of the Hydraulic Institute shall govern the procedures and calculations for these tests.

PART 3 EXECUTION

3.1 DELIVERY, STORAGE AND HANDLING

All equipment shall be completely factory assembled, skid mounted, crated, and delivered to protect against damage during shipment.

All exposed flanges shall be covered and sealed with shrink-wrap to prevent the entrance of moisture. Finished iron or steel surfaces not painted shall be properly protected to prevent rust and corrosion.

All equipment delivered to the site shall be stored as specified in accordance with the manufacturer's instructions.

3.2 INSTALLATION

The Contractor shall install the non-potable water pumps, as shown on the Plan and in accordance with the manufacturer's instruction and recommendations.

3.3 FIELD TESTING

The Contractor shall perform the field testing described in Sections 01800 and 11000.

Each pump shall be field tested when the installation is complete. The field test shall be made by the Contractor in the presence of and as directed by the Engineer. Voltage, amperage draw on each phase of power, flow capacity, discharge pressure and other significant parameters shall be recorded. The manufacturer shall provide a formal test procedure and report forms for recording data. The Contractor shall submit the report forms to the Engineer prior to operational testing.

Any defects in the equipment or failure to meet requirements of the Specification shall be promptly corrected by the Contractor.

3.4 MANUFACTURER'S SERVICES

The services of a factory-trained representative of the pump manufacturer shall be provided. Services shall include 2 days (one visit) onsite for the supervision of installation, startup, and testing of each piece of equipment, and instruction of the Owner's personnel in the operation and maintenance of the equipment after the equipment is fully operational. The cost of these services shall be included in the bid price.

The representative shall provide for one additional service call during the initial 2 years of equipment operation.

***** END OF SECTION *****