

ADDENDUM NO. 4
CONTRACT 17-01 WASTEWATER TREATMENT PLANT IMPROVEMENTS
SRF CW& 2019-432 & SRF 2019-433
FEDERAL EDA – 04-01-07217-01
DRA GRANT – TN-53991
FIDP – EDISON 59595
HUMBOLDT, TENNESSEE
WAUFORD PROJECT NO. 3626

Date of Addendum: Friday, March 15, 2019

Mandatory Pre-Bid Meeting Date: 10:00 AM Local Time, Thursday, March 7, 2019

Construction Bid Date: 2:00 PM Local Time, Thursday, March 21, 2019

1. Detailed Specifications, General:

The total time of completion has been changed to **790** days. The intermediate completion date of 545 days for the partial operation as described will remain unchanged.

2. Detailed Specifications, Sub-Section 1, General Scope and Special Provisions, Paragraph 2, Execution and Coordination of the Work, Page DS 1-1:

Add the following sentence:

“ Per Article 7.06 of the General Conditions, the Contractor shall submit a list of sub-contractors and suppliers for the Owners approval prior to entering into a contract.”

3. Detailed Specifications, Sub-Section 1, General Scope and Special Provisions, Paragraph 8, Land, Rights-of-Way and Limits of Work, Page DS 1-4:

Replace the second sentence with the sentence below:

“The Contractor shall be responsible for obtaining necessary work permits from the City of Humboldt. There will be **no cost** for the permits.”

4. Detailed Specifications, Sub-Section 5, Piping, Fittings, Valves, Manholes and Accessories, Page DS 5-25:

Add the following paragraph to the end of this Sub-Section:

“30. Stainless Steel Piping

Air Piping

Piping systems conveying air shall be Schedule 10 AISI Type 304L stainless steel above the water line and Type 316 stainless steel below

the water line. Piping inside blower building shall be insulated with FOAMGLAS, or equal. Insulation shall be pre-formed 2-inch minimum thickness with 0.016" smooth aluminum jacket. All joints shall be sealed as per the manufacturer's recommendations. The fittings and joints utilized shall be rated for air service at a continuous temperature of 250°F. All gaskets shall be Viton.

Liquid Piping

All stainless steel piping transporting any liquid shall be Schedule 40 AISI Type 304L stainless steel above the water line and Type 316 stainless steel below the water line. All piping shall meet AWWA C220."

5. Detailed Specifications, Sub-Section 6, Metal Building Construction, Paragraph 5g, Roof and Wall Coverings, Page DS 6-5:

Clarification – The insulated roof and wall panels added in Addendum 3 shall be **3-inches** thick. The interior panels will **not** be insulated.

6. Detailed Specifications, Sub-Section 9, Miscellaneous Metals, Paragraph 8, Fabricated Stainless Steel Slide Gates and Open-Channel Fabricated Metal Weir Gates, Page DS 9-5:

RW Gates is an approved manufacturer.

7. Detailed Specifications, Sub-Section 11B, Chemical Feed Equipment, Paragraph 2, Vendors, Page DS 11B-1:

The following are approved manufacturers for the polymer feed system:

- Prominent
- Acrison, Inc.

8. Detailed Specifications, Sub-Section 11B, Chemical Feed Equipment, Paragraph 4, Chemical Metering Systems, Page DS 11B-2:

The anticipated discharge pressures for the chemical metering systems are as follows:

Magnesium Hydroxide	65psi
Ferric Chloride	65psi
Clay-Based Settling Agent	65psi
Sodium Hypochlorite	5psi
Sodium Thiosulfate	5psi

9. Detailed Specifications, Sub-Section 11C, Sequencing Batch Reactor (SBR) System, Paragraph 5f, Valves and Valve Actuators, Sub-Paragraph (3), Butterfly Valves (Air Service), Page DS 11C-46:

Valve disk material shall be aluminum bronze to meet the AIS requirement. The seals shall be rated at 250°F.

10. Detailed Specifications, Sub-Section 11C, Sequencing Batch Reactor (SBR) System, Paragraph 5f, Valves and Valve Actuators, Sub-Paragraph (4), Butterfly Valves (Effluent Service), Page DS 11C-47:

Valve disk material shall be aluminum bronze to meet AIS requirement.

11. Detailed Specifications, Sub-Section 11C, Sequencing Batch Reactor (SBR) System, Paragraph 5f, Valves and Valve Actuators, Sub-Paragraph (7), Actuators, Page DS 11C-49:

AUMA SA series are approved.

12. Detailed Specifications, Sub-Section 11C, Sequencing Batch Reactor (SBR) System, Paragraph 5k, Process Control Panel, Sub-Paragraph (6), Override, Page DS 11C-54:

The Main Control Panel will not have the override selector switches and lights. The selector switches and lights will be on the local I/O panels at the SBR.

13. Detailed Specifications, Sub-Section 11H, Miscellaneous Equipment, Paragraph 5, Telescoping Valves, Page DS 11H-4:

The telescopic valves are to be **non-rising** stem.

14. Plan Sheet 23, Digester Plans, Sections, and Details:

The scum baffle on the telescopic valve shall be 2' diameter and **3 feet tall**. The scum baffle will extend 1 foot below the v-notch and two feet above.

15. Plan Sheet 24, Biosolids Dewatering Building Floor Plan:

The grating in the floor covering the sludge feed piping shall be heavy duty serrated galvanized steel, heavy weld grating with 3-1/2" x 3/8" bars.

The final dimensions of the platforms for access to the screw presses must be coordinated with the screw press manufacturer. They will be approximately 4'-6" high and provide a minimum of 4-feet of walkway on both sides of the screw press approximately 21' long.

16. Plan Sheet 30, Chemical Feed Building and Sheet 31, Effluent Disinfection / Electrical Building:

The grating in both of these buildings shall be fiberglass, as specified below.

Fiberglass grating panels shall be of the two-inch deep T-bar or I-bar design with cross bar spacing at six-inches on center. All grating shall be sized so that a uniform load of 100 pounds per square feet shall not cause a deflection exceeding 1/240th of the span.

All grating shall be constructed of unidirectional aligned glass fibers bonded with a fire retardant vinyl ester resin meeting the requirements of a Class 1 Flame Spread rating of 25 or less when tested in accordance with the requirements of the latest revision of ASTM Specification D635. The resin shall include an ultraviolet inhibitor and shall be encapsulated with a surface veil manufactured with material similar to the vinyl ester resin over a continuous glass fiber mat. The surface of the grating bar shall be permanently bonded grit, baked epoxy, anti-skid vinyl ester coating. Color shall be gray.

Fiberglass grating shall be DURADEK^R Series T-5000-2 as manufactured by AFC Division of Morrison Molded Fiber Glass Company of Bristol, Virginia; or approved equal.



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