

ADDENDUM NO. 1

- **Project:** Montana State Hospital Upgrade Wastewater Treatment System
- **Owner:** State of Montana
- Engineer: Anderson-Montgomery Consulting Engineers 1064 N. Warren Helena, MT 59601

Date of Addendum: February 8th, 2021 **Bid Opening Date:** February 18, 2021 at 2:00 p.m.

The following corrections, clarifications, and/or alterations to the specifications for the project are as such a part and parcel of said plans and specifications as if included therein.

TECHNICAL SPECIFICATIONS:

Modification to Language in Specification (stricken language removed, bold underline language inserted):

1. SPECIAL PROVISIONS

SP36. FACILITY COMMISSIONING – Clean/clear water commissioning of the facility will be required prior to the introduction of raw wastewater. During the clean/clear water commissioning equipment shall be started up as per each piece of equipment's startup procedure described in the technical specifications. The Contractor will be required to have a professional video tape the training sessions and provide three (3) copies of the recordings on USB drives to the Owner. After clean/clear water commissioning has been successfully completed for ALL equipment, raw wastewater commissioning will be required.

2. Division 01, Section 01 50 00 – Temporary Facilities and Controls, Section 1.02

Section 1.02 <u>C – Construction water will be provided from the Montana State Hospital's</u> <u>Backup/Irrigation Water System. The pumphouse is located approximately 2,700 LF from</u> the proposed location of the new wastewater facility. The well has an approximate yield of 700 gpm at 90 psi. Connection to the system will be through a 4-1/2" hydrant located adjacent to the pumphouse. Coordination to setup the construction water supply will need to be completed by contacting Raul Luciani.

3. Division 09, Section 09 90 00 – Painting & Coating, Section 2.08

Section 2.08 A <u>3 – Macropoxy 646 applied in two coats at 5-8 mils DFT per coat is</u> <u>approved as an alternate manufacturer.</u>



4. Division 09, Section 09 90 02 – High Performance Painting & Coating, Section 3.07 C, Section 3.07 L, Section 3.07 M, Section 3.07 N, and Section 3.07 O

Section 3.07 C

System Type	Surface Preparation	Primer Coat 3.0 to 5.0 DFT	Intermediate Coat,	Topcoat, 2.0 to 3.0 DFT
Polyamidoamine	SSPC SP6	Tnemec Series N69, SW Macropoxy 646	NA	Tnemec Series 1075, SW Macropoxy 646 <u>High Solids</u> Polyurethane @ 2- <u>3 mils DFT</u>

Section 3.07 L – Strike the entire table listed under Section 3.07 L and replace as shown below:

System Type	Surface Preparation	Primer Coat	Intermediate Coat	Topcoat,
		3.0 to 5.0 mils DFT		3.0 to 5.0 mils DFT
Polyamidoamine	SSPC SP13, ICRI	Tnemee Series	NA	Tnemee Series
	CSP2-3	N69, SW Duraplate		N69, SW Duraplate
		235 MPE		235 MPE

System Type	Surface	Primer Coat	Intermediate Coat	Topcoat,
	Preparation	(Filler)	3.0 to 5.0 mils DFT	3.0 to 5.0 mils DFT
		1 Coat Up To ½"		
		Thick As Needed		
<u>Polyamidoamine</u>	SSPC SP13, ICRI	Duraplate 2300,	Tnemec Series N69,	Tnemec Series
	CSP2-3	Tnemec Series 218	SW Duraplate 235	N69, SW
		MortarClad (60 to	MPE	Duraplate 235
		65 mils DFT)		MPE

Section 3.07 M

System Type	Surface Preparation	Primer Coat	Intermediate Coat	Topcoat
Fiber reinforced MP	SSPC SP13, ICRI	Tnemec Series 218	NA	Tnemec Series 436
Epoxy	CSP4-6	MortarClad (60 to		(50 to 80 mils
		65 mils DFT),		DFT),
		SW-Core-Cote		SW Core- Cote SC
		FRE (60		(15
		to 120 mils DFT)		to 20 mils DFT)
		Duraplate 2300 (1		Duraplate 6000
		Coat Up To (1/2"		(50-80 mils DFT)
		Thick As Needed)		



Section 3.07 N – Strike the entire table listed under Section 3.07 N and replace as shown below:

System Type	Surface Preparation	Primer Coat	Intermediate Coat	Topcoat,
		3.0 to 5.0 mils DFT		3.0 to 5.0 mils DFT
Polyamidoamine	SSPC SP13 ICRI	Tnemee Series N69,	NA	Tnemee Series N69,
	CSP2-4	SW Duraplate 235		SW-Duraplate 235
		MPE		MPE

<u>System Type</u>	<u>Surface</u> Preparation	<u>Primer Coat</u> (Filler) 1 Coat Up To ½" Thick As Needed	<u>Intermediate Coat</u> 3.0 to 5.0 mils DFT	<u>Topcoat,</u> 3.0 to 5.0 mils DFT
<u>Polyamidoamine</u>	<u>SSPC SP13 ICRI</u> <u>CSP2-4</u>	<u>Duraplate 2300,</u> <u>Tnemec Series 218</u> <u>MortarClad (60 to</u> <u>65 mils DFT)</u>	<u>Tnemec Series N69, SW Duraplate 235</u> <u>MPE</u>	<u>Tnemec Series</u> <u>N69, SW</u> <u>Duraplate 235</u> <u>MPE</u>

Section 3.07 O

System Type Surface Preparation		Primer Coat,	Intermediate Coat	Topcoat Per Mnfr
		Per Mnfr	Per Mnfr	recommendation
		recommendation	recommendation	
Epoxy	SSPC SP13 ICRI	Tnemec Series 218,	Tnemec Series 104,	Tnemec Series 104
	CSP5	SW Corobond 300	SW Sherglass FF	SW Sherglass FF
		resurfacer <u>Duraplate</u>		
		<u>2300 (1 Coat Up To</u>		
		¹ / ₂ " Thick As Needed)		

5. Division 26, Section 26 32 13 – Standby Power System, Section 1.03 A, Section 2.04 D, Section 2.09 B, Section 2.10 G, Section 2.10 H, Section 2.12 B, Section 2.12 W, Section 2.12 X, and Section 3.06 A 5.

Section 1.03 A – This system shall be manufactured by Kohler, Detroit Diesel, <u>Generac</u> (Genset model SD130), or approved equal.

Section 2.04 <u>D – The run time capacity of the fuel base tank shall be a minimum of 24</u> hours.

Section 2.09 B – Two mainline thermal magnetic [electronic LSI] circuit breakers carrying the UL mark shall be factory installed. The breakers shall be rated at 125 Amps. The line side connections are to be made at the factory. Output lugs shall be provided for load side connections. <u>Two mainline thermal magnetic circuit breakers sized for 80% continuous current ratings are acceptable.</u>



Section 2.10 G – The enclosure shall include a thermostatically controlled space heater designed to maintain the enclosure at 40 degrees F.

Section 2.10 H – The fuel tank shall include a fuel spill box with spill sensor, automatic overflow fill valve, and the normal vent elevated 12 feet above grade shall be properly venter per UL142.

Section 2.12 B – The automatic transfer switch shall be a 3 pole design rated for 125 amps continuous operation in ambient temperatures of -20 degrees Fahrenheit to +140 degrees Fahrenheit. Main power switch contacts shall be rated for 600 V AC minimum. The transfer switch supplied shall have a minimum withstand and closing rating when fuse protected of 200,000 amperes. Where the line side overcurrent protection is provided by circuit breakers, the short circuit withstand and closing ratings shall be 25,000 amperes RMS. The highest available fault current at the transfer switch will be approximately 17,000 Amps. The transfer switch shall be rated for a minimum of 22,000 AIC. These RMS symmetrical fault current ratings shall be the rating listed in the UL listing or component recognition procedures for the transfer switch. All withstand tests shall be performed with the overcurrent protective devices located external to the transfer switch.

Section 2.12 W – Provide an NFPA 110/99 compliant alarm annunciator panel for remote indication. The panel shall have an ALARM switch that when moved to the OFF position silences the audible alarm. A TEST/RESET switch must be included to verify the lights are functional and reset any condition after it has cleared. The annunciator shall be controlled using RS485 communications from the generator controller. Annunciators requiring individual contacts and wires per indication point are not preferred. <u>An alarm annunciator panel for remote indication shall be supplied for the generator, not the transfer switch.</u>

Section 2.12 X – Provide a remote annunciator panel to be located in the fire control room screen building control room near the auto-dialer (remote monitoring system) that meets the monitoring requirements of the IBC and supports running the generator remotely.

Section 3.06 A 5 – Perform a load test of the electric plant using a portable load bank sized for 100% of generator capacity. Load <u>bank test testing</u> shall <u>consist of a total of four hours as</u> <u>specified (1 hour at 25% load, 1 hour at 50% load, and 2 hours at 100% load)</u> include 1 hour at 25% load, 1 hour at 50% load and 2 hours at 100% load. Records shall be kept at 15 minute intervals, recording minimum engine generator parameters of coolant temperature, oil pressure, generator AC kw, AC amperes, AC voltage, AC frequency.

6. Division 43, Section 43 25 00 – Submersible Lift Station, Section 2.04 G 2.

2. This cable is required for use with Flygt SmartRunTM intelligent controls.

7. Division 40, Section 40 05 60 – Slide and Weir Gates, Section 1.01 E.

Section 1.01 E – Gates supplied under this section shall be Model GH-66 Stainless Steel Weir Gates as Manufactured by Golden Harvest Inc. or engineer approved equal. Gates supplied under this section shall be model QSS-256-1-Y-NRS type 304 stainless steel slide gates having a self-contained frame to overall height not to exceed 6.25' (measured from the invert of the frame to the top of the 2" square nut for the yoke mounted non-geared lift), and a minimum gate height of 26 inches (measured from the invert of the channel to the



top of the gate) as manufactured by Waterman Valve, LLC a McWane Company. The top of nut shall be below the grating as shown in the Contract Drawings.

8. Division 40, Section 40 05 60 – Slide and Weir Gates, Section 1.03 A. 4.

Approved manufacturers of the weir gates and slide gates are:

- a. Rodney Hunt, Inc of Orange, MA
- b. Plasti-Fab, (Ershigs, Inc.) of Ridgefield, WA
- c. Golden Harvest, Inc. of Burlington, WA
- d. Whipps, Inc. of Athol, MA
- e. Waterman Valve, LLC a McWane Company of Dever, CO
- f. Other manufacturers with pre-approval.

PROJECT DRAWINGS:

1. Sheet GC-13

The flapper valve was not called out in the discharge structure detail. Revised Sheet GC-13 with the proper callout is attached.

2. Sheet C-33

The non-potable pumps identified as product number 99392014 is herein changed to product number 99076155. Revised Sheet C-33 is attached.

3. Sheet E-8 Lighting Fixture Schedule

The following light fixtures have been approved as substitutions: **Type F1:**

Cooper 4VRVT2-LD5-11-DR-UNV-L840-CD1-WL-U ILP Lighting WTZ4-12L-U-40-SPCL

Type F2:

Cooper IST-SA1-E-740-U-T4W-BZ-BPC Oracle Lighting OWP-FC-201-LED-6000L-MVOLT-40K-BZ-PHC

<u> Type F3:</u>

Solas Ray HJIL41-040-40-U-120/HJUB JL Lighting JLX-30W-I2YZDA

<u> Type F4:</u>

Cooper 4BCLED-LD4-40SL-F-UNV-L840-CD-1-U Oracle Lighting 4-ASW1-LED-4000L-DIM10-MVOLT-40K-85-70U30D

RESPONSE TO QUESTIONS FROM THE PRE-BID WALKTHROUGH:

 At the Pre-Bid Walkthrough one of the attending Contractors asked if CAD files for the Grading Plan are available. The CAD files associated with the Grading Plan are available and can be sent directly to Contractors that wish to receive the files. If a Contractor wants the files please send an email to <u>adam@a-mce.com</u> and I will provide you with a zipped folder containing the files.



- 2. Power for Contractor Construction Trailer(s) As per the Montana State Hospitals Maintenance Manager, Raul Luciani, the existing garage located just south of the proposed location for the new wastewater facility has power available. If a Contractor would like to use power from the location it will be the Contractor's responsibility to connect their job trailer(s) to the existing power drop down and then the power can be turned (power to the garage is currently turned off) on by coordinating with Raul.
- 3. At the Pre-Bid Walkthrough one of the attending Contractors asked about the permits associated with the approach to the new facility off of the secondary highway. The Owner will be applying for the permits with the Montana Department of Transportation to handle the new approach.

Please Remember To Note Receipt Of This Addendum On The Bid Form. Failure To Do So Will Result In Disqualification.

Issued By: ANDERSON-MONTGOMERY, 1064 N. WARREN, HELENA, MT 59601, Adam Eckhart, P.E., Project Manager

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END OF ADDENDUM NO. 1





