

ADDENDUM | No. 2

PROJECT	Vermillion WWTF Digester Improvements - 2018	
BID DATE	2:00 PM	July 17, 2018
BID LOCATION	City Engineer/Vermillion City Hall 25 Center Street, Vermillion, SD 57069	
ISSUE DATE	July 13, 2018	
NOTICE	Failure to acknowledge all addenda in the BID may cause rejection of the BID. See Instructions to Bidders.	

SCOPE OF THIS ADDENDUM

The following becomes a part of the original project manual and drawings, taking precedence over the items that may conflict. The bidder shall note receipt and make acknowledgment of the Addendum on his/her bid form, incorporating its provision in his/her bid.

PRIOR APPROVALS

The following manufacturers of the items and materials have been added to the list of approved manufacturers. Listing of an item does not change the requirements of the specifications. Equipment furnished shall meet the materials and performance requirements as specified.

SECTION	DESCRIPTION	MANUFACTURER
40 9100	Process Measurement Devices	Reotemp
43 1300	Gas Process Equipment	FCI (Fluid Components Intl.)
44 4256	Pumps	Hidrostal (Sludge Recirculation Pump)

GENERAL

The minutes from the prebid meeting held on July 10, 2018 are included with this addendum.

PROJECT MANUAL

The following additions, changes and clarifications have been made to the Project Manual.

Section C-800 Supplementary Conditions,

Replace SC 6.03 K. with the following:



K. The limits of liability for the insurance required by Paragraph 6.03 of the General Conditions shall provide coverage for not less than the following amounts or greater where required by Laws and Regulations:

1. Workers' Compensation, and related coverages under Paragraphs 6.03.A.1 and A.2 of the General Conditions:

State:	<u>Statutory</u>
Federal, if applicable (e.g., Longshoreman's):	<u>Statutory</u>
Employer's Liability:	
Bodily injury, each accident	\$ <u>100,000</u>
Bodily injury by disease, each employee	\$ <u>100,000</u>
Bodily injury/disease aggregate	\$ <u>500,000</u>
Foreign voluntary worker compensation	<u>Statutory</u>

2. Contractor's Commercial General Liability under Paragraphs 6.03.B and 6.03.C of the General Conditions:

General Aggregate	\$ <u>1,000,000</u>
Products - Completed Operations Aggregate	\$ <u>1,000,000</u>
Personal and Advertising Injury	\$ <u>1,000,000</u>
Each Occurrence (Bodily Injury and Property Damage)	\$ <u>1,000,000</u>

3. Automobile Liability under Paragraph 6.03.D. of the General Conditions:

Bodily Injury:	
Each person	\$ <u>1,000,000</u>
Each accident	\$ <u>1,000,000</u>
Property Damage:	
Each accident	\$ <u>1,000,000</u>
<i>[or]</i>	
Combined Single Limit of	\$ <u>1,000,000</u>



4. Excess or Umbrella Liability:

Per Occurrence	\$ 1,000,000
General Aggregate	\$ 1,000,000

5. Contractor’s Pollution Liability:

Each Occurrence	\$ N/A
General Aggregate	\$ N/A

If box is checked, Contractor is not required to provide Contractor’s Pollution Liability insurance under this Contract

Section 409100 – Process Measurement Devices

Add to Section 2.1, A.3:

- b. Reotemp

Add to Section 2.1, C:

- 4. Acceptable Manufacturers:
 - a. Reotemp

Section 43 1300 – Gas Process Equipment

Add to Section 2.3, H:

- b. FCI (Fluid Components Intl.), Model ST100

Section 44 4256 – Pumps,

Replace Section 2.1, A.1. with the following:

- 1. Sludge recirculation pumps shall be Weir SFD3-Y Horizontal, Hayward Gordon XCS5-B Screw Centrifugal Pumps, Hidrostal Model D3K-3 or approved equal.

Replace Section 2.1, B.1. with the following:

- 1. The basic design shall be a single-passage, clog-free pump, utilizing a screw-centrifugal impeller. The overall pump design shall combine high efficiency, low required NPSH, a large solid passage, and the ability to handle rags or other fibrous material without plugging. The pump shall be capable of passing a non-compressible 2.25-inch sphere. B-10 bearing life shall be rate at a minimum of 100,000 hours.



Section 44 6013 – Process Piping and Valves,

Replace Section 2.3, A. with the following:

- A. General: Type 316L stainless steel piping shall be used for all gas piping as indicated on the Contract Drawings. The Contract Drawings show size and general arrangements of pipe and appurtenances. Responsibility for furnishing exact lengths of various sizes of pipe for proper pipe system construction rests with the Contractor. Pipe shall be shop fabricated. Certified welder shall be required for on-site fabrication of pipe.

DRAWINGS

The following additions, changes and clarifications have been made to the Drawings.

Drawing Sheet 3.4 – Lower Floor Demolition Plan,

Clarification:

The A/3.3 callout in the upper left-hand corner of the lower level floor plan should instead have a callout of A/3.4.

Drawing Sheet 13.5 – Piping Sections,

Clarification:

The reference to Key Note 4 in the middle of the piping section, directly above the sludge transfer pump should instead reference Key Note 5. There is no Key Note 4 on this sheet.

NOTE

The Plan Holders List and Addendums are available on our website at <http://www.bannerassociates.com> by clicking on **View Bid Information / Project Name / Project Information** link.

Project Manual and Drawing inquiries regarding the work should be directed to:

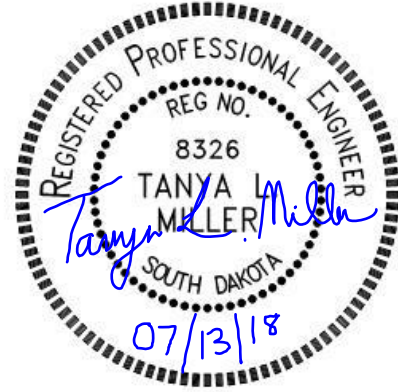
CONTACT PERSON(S)

Banner Associates, Inc.			Tel 1-605-692-6342 Toll Free 1-855-323-6342 Fax 1-605-692-5714		
Tanya Miller	Project Manager	tanyam@bannerassociates.com	Dennis Rebelein	Project Engineer	dennisr@bannerassociates.com
Subconsultant			Tel Fax		
Mark Joffer	Electrical Engineer	mark.joffer@pegrouper.com	Brian Brewer	Mechanical Engineer	bbrewer@brewer-engr.com



ATTACHMENTS

1. Mechanical Addendum.
2. Prebid Meeting Minutes.



Tanya Miller, P.E. #8326

Addendum

#: 2

RE: Vermillion WWTF 2018 Digester Improvements
Vermillion, SD

Date: July 13, 2018
BEC#: 1806

To: Tanya Miller – Banner & Associates, Inc.

From: Brian K. Brewer, PE

This addendum forms a part of the contract documents and modifies the bidding documents dated June 2018, with amendments and additions noted below.

Acknowledge receipt of this addendum in the space provided in the bid form. Failure to do so may disqualify the bidder.

This addendum consists of 2 pages.

PART 1 - CLARIFICATIONS

1.1 NONE.

PART 2 - CHANGES TO THE PROJECT SPECIFICATIONS

2.1 SECTION 23 2114 - HYDRONIC SPECIALTIES

A. REVISE section 2.08.A.1 to refer to "PROPYLENE GLYCOL".

2.2 SECTION 23 2500 - HVAC WATER TREATMENT

A. REVISE section 3.04.C to refer to "PROPYLENE GLYCOL".

2.3 SECTION 23 5100 - BREECHINGS, CHIMNEYS, AND STACKS

A. ADD the following sentence to part 2.03.B: "2 INCH ANNULAR SPACE BETWEEN LINER AND SHALL SHALL BE FILLED WITH CERAMIC FIBER INSULATION."

2.4 SECTION 23 5233.15 - STEEL FIRE-TUBE BOILERS

A. DELETE the last sentence in part 3.02.A requiring the complete package to be UL Listed and bear the UL Label. ADD the following "BOILER AND BURNER COMPONENTS SHALL BE UL LISTED/APPROVED."

B. REMOVE the words "NO SUBSTITUION" in part 3.06.A.1. Power Flame model CR2-GG-20B is also acceptable.

PART 3 - CHANGES TO THE DRAWINGS

3.1 SHEET 16.8 - SCHEDULES

A. BOILER SCHEDULE:

1. REVISE Remark #3 to "BURNER SHALL BE WEBSTER MODEL JB1-GG FULLY MODULATING, DUAL FUEL BOILER FOR NATURAL AND DIGESTER GAS."

PART 4 - PRODUCT APPROVALS

The following manufacturers are approved for bidding on this project. The products and manufacturers listed are required to meet the project documents regardless of this approval. Conformance with the project documents will be evaluated during the submittal phase:

Specification Section	Product	Manufacturer
23114	Expansion Tanks	Wessels
	Air Vents	Wessels
	Air Separators	American Wheatley
	Triple Duty Valves	Patterson
	Balancing Valves	Nexus Valve
232123	Hydronic Pumps	Patterson Pump
232500	Water Treatment	Houghton Chemical

Sincerely,
Brewer Engineering Consultants, PLC

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END of ADDENDUM #2

PRE-BID MEETING MINUTES

DATE	Tuesday, July 10, 2018 10:00 A.M.	
PROJECT	Vermillion WWTF Digester Improvements – 2018 Project	BAI No. 22755.00
SUBJECT	Pre-Bid Meeting	
LOCATION	Vermillion Wastewater Treatment Facility (WWTF) – Conference Room	
ATTENDEES	City of Vermillion – Shane Griese and Fred Balleweg	
	Banner Associates – Tanya Miller	
	See attached Sign-in Roster for additional attendees	

1) ROSTER SIGN-IN AND INTRODUCTIONS

a. See attached Sign-in Roster for additional attendees

2) SCOPE OF WORK

a) Base Bid

- i) Demolition of existing boiler, heat exchanger and associated hot water and digester sludge piping
- ii) New 40 HP, 1,139,000 Btu./hr output dual fuel (biogas/methane) boiler and associated insulated, stainless steel biogas and insulated hot water piping
- iii) New 600,000 Btu/hr spiral heat exchanger and associated sludge and hot water piping
- iv) Draining and clearing of primary and secondary anaerobic digesters
- v) Replacement of selected sludge piping penetrating the primary and secondary anaerobic digesters with Sch. 80 PVC piping and replacement of associated plug valves

b) Bid Alternative No. 1 – *variation in hatching helps denote bid alternative in the plans.*

- i) Demolition of selected digester sludge pumps and piping
- ii) Two screw-centrifugal, 5 HP sludge digester recirculation pumps and associated piping and valves
- iii) Two rotary lobe, 7.5 HP sludge transfer pumps and associated piping and valves
- iv) Replacement of existing stainless-steel sludge piping with Sch. 80 PVC piping and replacement of associated plug valves



3) DELIVERY OF BID

- a) Bids will be received by the City of Vermillion, SD until **2:00 p.m. local time, July 17, 2018**. Bids shall be delivered to Jose Dominquez, City Engineer at the Vermillion City Office, 25 Center Street, Vermillion, SD 57069.
- b) Opening of Bids: Bids will be opened and read aloud at the Vermillion City Hall.
- c) Bid Documents consist of:
 - i) Bid Form;
 - ii) Required Bid security in accordance with Article 8 of the Instructions to Bidders;
 - iii) List of proposed Subcontractors and Suppliers;
- d) Bid Completeness Requirements:
 - i) Acknowledgement of Addenda on Bid Form.
 - ii) Fill in the Bid amounts for the items in the project. There is one bid schedule and one bid alternative.
 - iii) Complete bidder information as requested.
 - iv) Sign and Attest the bid.

4) PROJECT DEADLINES

- a) Substantial Completion – April 30, 2019.
- b) Final Completion – May 31, 2019.

5) PROJECT ADDENDA

- a) Clarifications in response to questions about the technical specifications.
- b) Prior approval listings for equipment listed in specs as “or equal” or “or Engineer approved equal.”
- c) List of planholders (See www.bannerassociates.com website).
- d) Names of contacts for questions – see end of pre-bid agenda.
- e) Addenda will be sent out July 12, 2018 that includes minutes from this meeting.

6) CONTRACT DOCUMENTS AND REQUIREMENTS

- a) Listed in Agreement
- b) Contract includes Plans, Specifications and Reference Documents



7) FUNDING AND ASSOCIATED REQUIREMENTS

- a) Project is funded with City cash-on-hand.
- b) No specific loan or grant funding requirements apply to this project.

8) CONTRACTOR'S LIABILITY INSURANCE

- a) Amounts are listed in C-800 Supplementary Conditions, Paragraph SC.6.03. – *The insurance requirements will be lowered. The exact amounts will be provided in Addendum #2.*

9) ANTICIPATED CONSTRUCTION TIMELINE

- a) Refer to Section 01 0000 – General Requirements Part 4.01 of the Project Manual.

Bidders are strongly encouraged to review this section of the Project Manual. The timeline was reviewed with attendees. The timeline is intended to serve as a guideline to the Contractor. The construction sequence was prepared to accommodate equipment lead times and Owner operations.

10) OTHER SPECIAL REQUIREMENTS:

- a) Building Permit – *a City Building permit will not be required.*

11) DIGESTER CLEANING

- a) Digesters were last cleaned in 2009
- b) Contractor is responsible for emptying entire contents of digester. Contents can be disposed of in Owner's sludge drying lagoons.
- c) One digester must be kept in service at all times.
- d) Contractor will be allowed to connect to Owner's fire hydrant to obtain was water – (shown on Sheet 2.1).
- e) Bidders are strongly encouraged to review Specification Section 13 6000.

12) OWNER COMMENTS

None.



13) CONTRACTOR/VENDOR COMMENTS OR QUESTIONS

A bidder inquired about the difficulty cleaning the digesters in 2009. The City indicated there was about 6 feet of thick sludge in the bottom that had to be removed in 2009. Since that time the City has installed two jet mixers in each digester and anticipates less thickened sludge is present in the bottom of the digesters.

A bidder inquired about working hours. WWTF staff are on-site from 7:30 am to 4:00 pm weekdays. The gate is closed and buildings are locked outside these hours. The Contractor will be provided a code to access the property and the digester building as needed. The Contractor will not have restrictions on working hours.

A bidder inquired about the turnaround time on submittals and the use of electronic submittals. The Project Manual calls for the Engineer to have 2 weeks to review submittals. If feasible, the Engineer intends to turn the submittals around quicker than this.

14) SITE VISIT: DIGESTER COMPLEX/PROJECT AREA

First the group looked at the sludge drying lagoons site. The two most westerly sludge drying lagoons will be drained prior to the project and available for the Contractor to dispose the contents of the sludge in the Primary and Secondary Digesters. The Contractor can string hose or use a truck to haul the material from the digesters to the sludge drying lagoons.

There is an "Iowa-style" yard hydrant just northwest of the sludge drying lagoons. This could be connected to for wash water for the digester cleaning, but may not provide enough pressure. There is also a hydrant adjacent to the final clarifiers that could be used, but it may not be much closer to the digester complex than the hydrant near the entrance called out in the plans.

The Contractor will be allowed to use the area west of the sludge drying lagoons for staging and storage. The contractor can also use the driveway and adjacent grass areas of the digester complex for equipment storage and staging.

Attendees visited the digester complex and the following items were pointed out:

- The room where the new dual fuel boiler will be located. (Note that there is a 2-inch water line in this room that the Contractor can connect to and use.)*
- The area of the building where supernatant piping is to be replaced, a roof drain repaired, and digester gas piping to be run.*
- The room where the existing boiler/heat exchanger is to be removed and the new heat exchanger located.*
- The basement area where the sludge piping and pumps will be removed and replaced. (Scope of work will depend on whether alternate bid is awarded.)*
- The roof where patching and new penetrations are needed. (Access to the digesters through the covers was also pointed out on the roof.)*



208V, 30-amp power is available on a pole behind the Animal Shelter (the building southwest of the Digester Complex) if needed by the Contractor.

15) CONTACT PERSONS

BANNER ASSOCIATES, INC.

Tanya Miller (Genera/Process), Dennis Rebelein (Process Control and Instrumentation)

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Mark Joffer_(Electrical)

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BREWER ENGINEERING CONSULTANTS

Brian Brewer (Mechanical)

Phone - (515) 957-8806

Email – bbrewer@brewer-engr.com

PREPARED BY Tanya Miller/Project Manager



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 Sioux Falls, SD 57108
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 Toll Free 855.323.6342
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MEETING ATTENDANCE ROSTER

DATE	July 10, 2018 10:00 a.m.	
PROJECT	Vermillion WWTF Digester Improvements – 2018 Project	BAI No. 22755.00.00
SUBJECT	Pre-Bid Meeting	
LOCATION	Vermillion Wastewater Treatment Facility – Conference Room	

Please provide name, firm name, phone number and email address.

- | | | |
|----|-----------------------------|-----------------------------------|
| 1 | NAME: Dick Colquhoun | EMAIL: FK@cccponder.biz |
| | FIRM: Christiansen Con | TEL: 402-385-3028 |
| 2 | NAME: Barrie Larsen | EMAIL: blarsen@tec-corp.com |
| | FIRM: Thompson Electric | TEL: 712-252-4221 |
| 3 | NAME: Scott Heeren | EMAIL: sheeren@mwmech.com |
| | FIRM: Midwestern Mechanical | TEL: 712-224-6161 |
| 4 | NAME: Eric Belkney | EMAIL: City of Vermillion |
| | FIRM: | TEL: |
| 5 | NAME: Brent Mannes | EMAIL: brentm@hander.com |
| | FIRM: Hander Inc. | TEL: 605.339.9033 |
| 6 | NAME: Jared Bunnell | EMAIL: jared@telumcs.com |
| | FIRM: Telum | TEL: 515 230 1214 |
| 7 | NAME: Steve Green | EMAIL: slueg@cityofvermillion.com |
| | FIRM: City of Vermillion | TEL: 605 675-9005 |
| 8 | NAME: Kevin Bender | EMAIL: benderkevin@wetsl.com |
| | FIRM: Wetsl Const. | TEL: 605-665-3258 |
| 9 | NAME: | EMAIL: |
| | FIRM: | TEL: |
| 10 | NAME: | EMAIL: |
| | FIRM: | TEL: |