

**February 13, 2012**

**RE: BOOSTER STATION  
GREGORY, SOUTH DAKOTA  
SPN #13575**

**BID LETTING: February 16, 2012 @ 2:00 PM**

## **ADDENDUM NUMBER 1**

The following modifications are to be made to the specifications and plans for the project to assist the bidders in the preparation of bids.

1. SECTION 02665 - WATER PIPING AND FITTINGS, PART 2, PARAGRAPH 2.01 shall be replaced with the following:  
  
2.01 DUCTILE IRON PIPE  
Ductile iron pipe in buried locations shall be pressure class 350 ANSI A21.50 and A21.51 with cement lining and standard coal tar varnish coating.
2. SECTION 07260 - ROOFING UNDERLAYMENT, PART 2, PARAGRAPH 2.01 A:  
  
The roofing underlayment Clad-Gard R by Firestone is approved.
3. SECTION 07610 - METAL ROOFING AND WALL PANELS, PART 2, PARAGRAPH 2.01:  
  
The following products by Firestone are approved: the UC-14 roof panel, the UC-750 soffit panel and the UC-500 wall panel.
4. SECTION 07610 - METAL ROOFING AND WALL PANELS, PART 2, PARAGRAPH 2.01 D: The gauge of the wall panels shall be 24.
5. SECTION 07610 - METAL ROOFING AND WALL PANELS, PART 2, PARAGRAPH 2.02 B 2 shall be re-labeled Paragraph 2.02 C 1.



6. SECTION 09750 - FRP WALL PANELS, PART 2, PARAGRAPH 2.01 A: Add the following to Paragraph A:  
  
Panolam Industries International, Inc. FRP panels are approved.
7. SECTION 09900 - SPECIAL COATINGS AND PAINTING, PART 2, PARAGRAPH 2.01 D shall be added:  
  
D. Equivalent coating systems by Tnemec are approved.
8. SECTION 11240 - CHEMICAL FEED EQUIPMENT, PART 2, PARAGRAPH 2.01 F 1:  
  
Tanks by Delmar Corporation are approved. The dimensions of the Assmann standard tank for the size required will not fit properly in the Chemical Room; therefore, delete Assmann as an approved manufacturer.
9. SECTION 11240 - CHEMICAL FEED EQUIPMENT, PART 2, PARAGRAPH 2.02 A 1: Add the following to Paragraph 1:  
  
Hydro Instruments Series 900 or Series 300 are approved.
10. SECTION 11240 - CHEMICAL FEED EQUIPMENT, PART 2, PARAGRAPH 2.02 A 2: Add the following to Paragraph 2:  
  
In addition, an automatic chlorine valve shall be provided for the chlorine control into the pump discharge piping. This valve is specified below and should be a 25 ppd valve. The two chlorine valves will provide independent dosing of chlorine as required.
11. SECTION 11240 - CHEMICAL FEED EQUIPMENT, PART 2, PARAGRAPH 2.02 B 13: Add the following to Paragraph 13:  
  
The Omni WPOV-110 automatic gas feeder is approved.
12. SECTION 11240 - CHEMICAL FEED EQUIPMENT, PART 2, PARAGRAPH 2.02 D 3: Add the following to Paragraph 3:  
  
The Hydro Instruments GA-170 gas detector is approved.
13. SECTION 11240 - CHEMICAL FEED EQUIPMENT, PART 2, PARAGRAPH 2.02 E: Note that this item is listed as an alternate bid item on the Bid Form. The cost of this alternate bid item shall include the interconnecting wiring, power wiring and all necessary labor and materials to install a functional emergency gas shutoff system.
14. SECTION 11240 - CHEMICAL FEED EQUIPMENT, PART 2, PARAGRAPH 2.02 F 4: Add the following to Paragraph 4:  
  
The Force Flow 4D150-1 hydraulic scale is approved.

15. SECTION 15000 – MECHANICAL, PARAGRAPH 3 h shall be deleted and replaced with the following:

h. The exhaust fan for the chlorine room shall have a phenolic coating with a stainless steel shaft and fasteners. The chlorine room fan shall be Model CVB by Loren Cook or equal by Trane or Barry. The exhaust fan for the pump room shall be Model SQN-B by Loren Cook or equal by Trane or Barry.

16. SECTION 15060 - INTERIOR PIPING AND FITTINGS, PART 2, PARAGRAPH 2.08 shall be added:

#### 2.08 FLEXIBLE FLANGED CONNECTOR

Flexible pump connectors/expansion joints shall be of the molded spherical type. Neoprene and nylon construction with internal steel wire, molded within the raised face ends, for added strength. The connectors shall be pressure rated for 225 psi at 240°F, with a minimum safety factor of 4 to 1. Flanges shall be one-piece, free-floating, class 150 galvanized plate steel type with tapped or drilled holes as required. Control units must be furnished in unanchored applications, or as recommended by the manufacturer. Connectors shall be Metrasphere as manufactured by The Metraflex Company®, Chicago, IL or approved equal.

17. SECTION 16940 – INSTRUMENTATION AND CONTROL SYSTEM, PART 1, PARAGRAPH 1.06 E: Paragraphs 2-3 shall be added to include approved systems integrators:

2. Dakota Pump, Inc. of Mitchell, South Dakota.

3. Services Unlimited of Ireton, Iowa.

18. SECTION 16940 – INSTRUMENTATION AND CONTROL SYSTEM, PART 2, PARAGRAPH 2.06 A: The Druck PTX1230 has been replaced by the Druck PTX1830.

19. SECTION 16940 – INSTRUMENTATION AND CONTROL SYSTEM, PART 2, PARAGRAPH 2.09: add the following paragraph as 2.09:

#### 2.09 PLC UPGRADES

A. It will be the Contractor's option to supply at the new booster station either a new Horner programmable logic controller or a Horner communication module with expansion I/O that is compatible with the existing system. The Contractor will also have the option to supply at City Hall a new Horner programmable logic controller with Ethernet or Horner Ethernet module with expansion I/O that is compatible with the existing system. Contractor will be responsible for all I/O required, screen development, and functionality of the programmable logic controllers per these specifications.

20. SECTION 16960 – ELECTROMAGNETIC FLOW METER, PART 2, PARAGRAPH 2.01 A 1: The following shall be added:

The 8750 WA by Rosemount is approved.

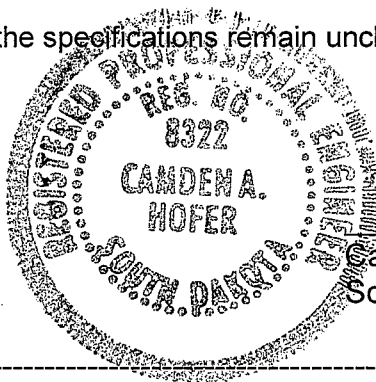
- 21. PLAN SHEET A1: The 4" PVC drain piping shall be Schedule 80 PVC as specified in Section 15060.
- 22. PLAN SHEETS A4 through A7: The 8' 4½" dimension shall be changed to 8' 5/8" to permit the use of a full 4' x 8' sheet of FRP.
- 23. PLAN SHEET C1: Based on available information, the existing water main to which the proposed piping will be connected underground is 8-inch PVC. The Contractor shall field verify this pipe size and type in preparation for making the connection.
- 24. PLAN SHEET C2: The vent lines to the outside for the chlorine regulator shall be installed as required by the manufacturer and shall be incidental to the cost of the chlorine equipment.
- 25. PLAN SHEET E1: The wiring from the control panel to the solenoid valve shall be included as required.

Note that the costs associated with modifying the existing overhead power line directly above the booster station shall be included as part of the total project costs.

It is the intent of this project that the power company will furnish and install the wiring from the existing yard pole to the building and proposed equipment. This cost will be billed directly to the City.

- 26. PLAN SHEET M1: EF#1 shall be Cook CVB as specified by this Addendum #1.

All other items of the specifications remain unchanged.



*Camden A. Hofer*

Camden A. Hofer, P.E., Project Engineer  
Schmucker, Paul, Nohr & Associates

The undersigned hereby acknowledges receipt of Addendum Number 1 to the specifications and plans for the **Booster Station Project**.

FIRM NAME \_\_\_\_\_

BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

ATTACH THIS SIGNED ADDENDUM NO. 1 TO THE BID FORM WHEN SUBMITTING.