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Addendum #1

Project: Lewis & Clark Regional Water System – Rock County Reservoir
Bid Date: 2:00 P.M., Local Time, September 20, 2016
Bid Location: Lewis & Clark Regional Water System Office, 46986 Monty Street
Tea, SD 57064

Issue Date: September 16, 2016

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.

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

SECTION 02410 – Blow-off Valves

Add: Specification Section 02410 as attached.

Section 02460 – Cleaning and Disinfection of Pipeline and Storage Facilities,

PART 2 PRODUCTS - Line 21, 22, 23,

Delete: Remove the first two (2) sentences of this paragraph in their entirety.

Clarification: Paragraph 3.8 in Section 01500 – Mobilization and Construction Facilities indicates that water for hydrostatic testing and disinfection is available through Lewis and Clark Regional Water. There will be no charge to Contractor for water taken from the Lewis and Clark Regional Water System for testing and construction related purposes.

Section 13215 – Wire-Wound, Prestressed Concrete Tank with Steel Diaphragm,

PART 1 GENERAL, 1.6 QUALITY ASURANCE, B.1.

Delete: Remove paragraph in entirety.

Add:

"1. DN Tanks, Wakefield, Massachusetts and Preload, LLC, Hauppauge, New York; are prequalified for precast, wire-wound prestressed, concrete tank construction."

Section 13215 – Wire-Wound, Prestressed Concrete Tank with Steel Diaphragm,

PART 2 PRODUCTS, 2.8 DECORATIVE COATING, A.2.b.1.

Delete: Remove paragraph in entirety.

Add:

"1) 1st Coat: Tamms Coat Acrylic Coating – Smooth for cast-in-place domes or Tamoseal with AKKRO-7T Cement based waterproofing for precast domes.."

DRAWINGS:

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

Drawing Sheet 2.6

Detail 1 & 2/2.6 – INFLUENT AND EFFLUENT PIPE PROFILE,

CLARIFICATION: Detail 1 is for the influent pipe and Detail 2 is for the effluent pipe.

Detail 2/2.6 – INFLUENT PIPE PROFILE,

Delete: Note that reads "GATE VALVE AND BOX, STA=0+05.00, DETAIL 5/2.7"

Add: Note that reads "GATE VALVE AND BOX, STA=0+15.00, DETAIL 5/2.7"

Detail 3/2.6 – OVERFLOW DETAIL,

Remove: Remove flexible coupling detail and note from one of the two locations shown in the detail.

Clarification: Only one of the flexible coupling is needed to accommodate the anticipated settlement.

Detail 5/2.6 – FLEXIBLE COUPLING DETAIL,

Clarification: Provide fully restrained coupling that will accommodate a maximum of 6-inches of vertical settlement.

Detail 6/2.6 – VALVE CONNECTION DETAIL,

Delete: Note that reads "5 L.F. – 24" Φ D.I. FLANGE X MJ COUPLED"

Add: Note that reads "15 L.F. – 24" Φ D.I. FLANGE X MJ COUPLED"

Drawing Sheet 2.7

Detail 4/2.7 – HYDRANT ASSEMBLY DETAIL,

Clarification: A MJ Standard tee would be acceptable in lieu of a tangential outlet tee.

Drawing Sheet 2.8

Detail 1/2.8 – CHAIN LINK FENCING DETAIL,

Delete: Note that indicates the fence is 7'-0" and replace with 8'-0".

Clarification: Provide a 8'-0' chain link fence.

Detail 2/2.8 – SLIDING VEHICLE ACCESS GATE DETAIL,

Delete: Note that indicates the opening is 18''-0" and replace with 20''-0".

Clarification: Provide a 20'-0' sliding vehicle access gate.

Drawing Sheet 4.4

Detail 1/4.4 – 16"Φ OVERFLOW DETAIL,

Clarification: Overflow piping is shown penetrating the wall of the prestressed concrete tank. It is acceptable to have the overflow exit the tank through the floor of the tank in lieu of the wall. Ultimately, the tank manufacturer is responsible for the design of the entire tank and associated components (i.e. foundation, floor, walls, dome, etc.).

Drawing Sheet 5.1

Detail 1/5.1 – RESERVOIR PROCESS PLAN DETAIL,

Delete: Remove detail in its entirety and replace with new detail as shown in attachment.

Drawing Sheet 13.1

Detail 2/13.1 – 24" Φ EFFLUENT PIPE SECTION DETAIL,

Delete: Remove detail in its entirety and replace with new detail as shown in attachment.

Detail 2/13.1, 4/13.1 and 5/13.1 – PIPE SECTION DETAILS,

Delete: Remove the portion of the note that reads "(SPLIT SLEEVE)"

Clarification: Provide the flexible coupling at each of these locations as shown in Detail 5/2.6

NOTE:

The Plan Holders List and addendums are available via the internet at http://www.bannerassociates.com by clicking on the Project Information link.

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

Contact Persons:

BANNER ASSOCIATES, INC.

Brookings Office
Chad Bachman (Process), Adam Hanson (Structural), and Kyle McCutcheon (Integration and Instrumentation)
Phone - (605) 692-6342 or 1-855-323-6342
FAX – (605)-692-5714
E-mail - chadb@bannerassociates.com
adamh@ bannerassociates.com
kylem@ bannerassociates.com

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota.

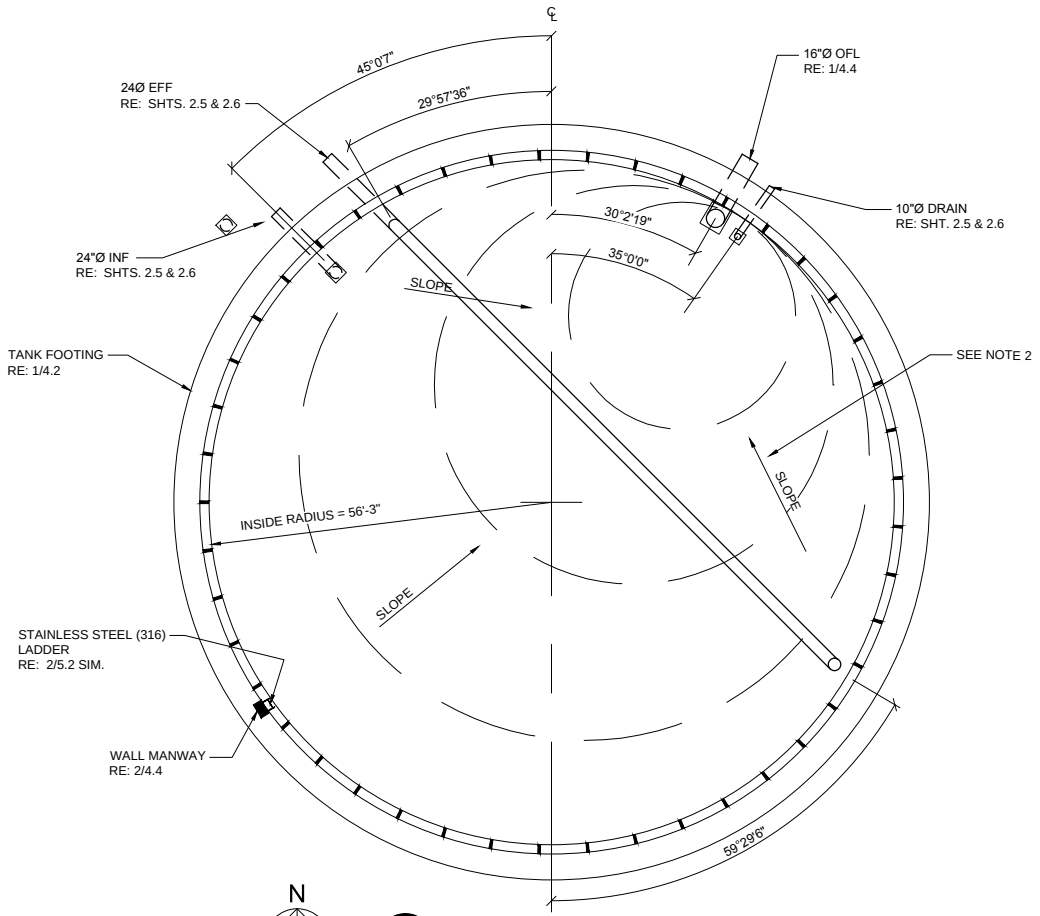
Print Name: CHAD E. BACHMAN

Signature:

Date 07/14/16 License # 51870

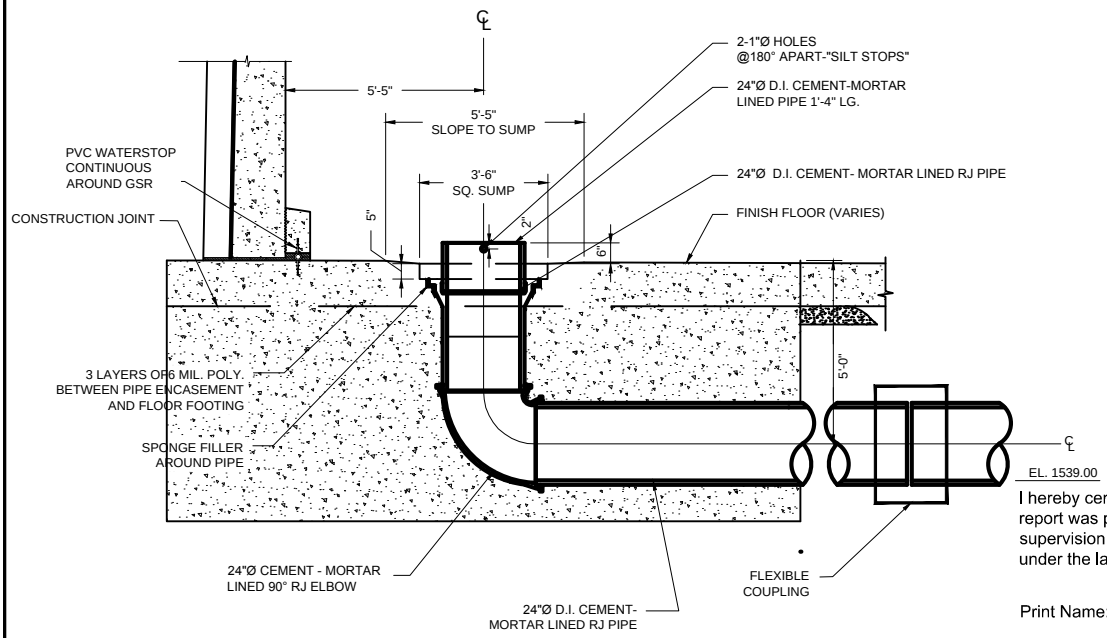
ATTACHMENTS

1. Sheet 1 – Reservoir Pipe Configuration Details
2. Section 02410 – Blow-off Valves



1 / 5.1 RESERVOIR PROCESS PLAN

SCALE: 1/32" = 1'-0"



2 / 13.1 24" Ø EFFLUENT PIPE SECTION

SCALE: N.T.S.

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the State of Minnesota.

Print Name: CHAD E. BACHMAN

Signature:

Date 07/26/16 License # 51870

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REV.	DATE	DESCRIPTION

PROJECT TITLE :

LEWIS & CLARK REGIONAL
WATER SYSTEM
ROCK COUNTY RESERVOIR

PROJECT LOCATION :

NEAR LUVERNE,
MINNESOTA

ADDENDUM NO. :

1

SHEET TITLE :

RESERVOIR PIPE
CONFIGURATION
DETAILS

DRAWN BY: C.M.C.
DESIGNED BY: C.E.B.
CHECKED BY: T.R.C.
JOB NO : 20000.32.00
DATE : SEPT 2016

0 1/2" 1"
SCALE REDUCTION BAR

SHEET NO. :

1

SECTION 02410 – BLOW-OFF VALVES

PART 1 GENERAL

1.1 RELATED REQUIREMENTS

Section 01300 – Submittals
Section 02303 – Buried PVC Pipe with Ductile Iron Fittings
Section 02340 – Pipeline Hydrostatic Testing
Section 02400 – Isolation (Gate) Valves
Section 03301 – Cast-in-Place Concrete (Limited Applications)
Section 13900 – Corrosion Protection

1.2 DESCRIPTION

This section includes the valves to be used for blowoff assemblies as shown on the Drawings.

1.3 SUBMITTALS

A. Shop Drawings shall be submitted in accordance with Section 01300 – Submittals. Furnish shop drawing submittals for the products, materials and equipment described in this section of the Specifications for the blow-off valve assemblies, piping, restraints and appurtenances complete as listed under Part 2 Products.

B. Computations of sufficient detail shall be provided to assure design conditions are met shall be provided with the shop drawings. The manufacturer shall submit an affidavit of compliance with all applicable requirements of the valve assemblies.

1.4 PRODUCT HANDLING

A. Protection: All means necessary shall be used by the Contractor to protect materials, before, during and after installation.

B. Replacement: In the event of damage, all necessary repairs or replacements shall be made by the Contractor to the approval of the Engineer and at no additional cost to the Owner.

1.5 PIPELINE PRESSURE

A. Valves shall be designed and manufactured in accordance with the following operating conditions:

Table 2 – Pressure Requirements	
Rock County Reservoir	
Stationing	0+00 to 1+61
Pipe Diameter (nominal)	24" PC DI
Working Pressure (maximum at low point) [1]	±25 psi
Static Pressure (maximum at low point)	±25 psi
Surge Pressure [2]	75 psi
Hydrostatic Test Pressure (maximum at low point)	±100 psi

Table Notes:
[1] Based on member system demands at their full allocation after system expands to 60 mgd capacity.
[2] The surge pressure is additive to the working pressure; total pressure is working pressure plus surge pressure.

PART 2 PRODUCTS

2.1 ISOLATION VALVES

A. Blowoff isolation valves shall be resilient wedge type gate valves (refer to Section 02400 – Isolation (Gate) Valves). The sizes shall be as indicated on the Drawings. Valves shall be capable of handling a maximum differential pressure in accordance with paragraph 1.5 for hydrostatic testing purposes. Flanges shall be ANSI B16.1, pressure class conforming to ANSI/AWWA C110/A21.10 and appropriate for the pressure parameters listed in paragraph 1.5 of this section of the Specifications.

Valves shall be lined and coated in accordance with AWWA C550 or AWWA C116.

2.2 JOINT RESTRAINT

A. All piping and valve joints shall be restrained.

2.3 FITTINGS

A. Additional fittings may be required in addition to those shown on the Drawings for deep or constricted easement locations.

2.4 BLOW OFF HYDRANTS

A. Hydrants shall meet or exceed AWWA C-502, latest revision. Rated working pressure shall be 250 p.s.i.g., test pressure shall be as per subsection 1.5 of this Section, and hydrants shall include the following specific design criteria:

The main valve closure shall be of the compression type. Traffic feature to be designed for easy 360-degree rotation of nozzle section during field installation.

The main valve opening shall not be less than 5¼" and be designed so that removal of all working parts can be accomplished without excavation. The bronze seat shall be threaded into mating threads of bronze. The draining system of the hydrant shall be bronze and positively activated by the main operating rod. Hydrant drains shall close completely after no more than three turns of the operating nut. There shall be internal ports and drain port outlets to the exterior of the hydrant. Drain shutoff to be by direct compression closure.

Lower hydrant barrel shall be made of centrifugally cast ductile iron.

All bolts exposed to bury shall be stainless steel.

Hydrants shall have a tamper resistant collar around the operating nut for prevention of unauthorized use of the hydrant.

2.5 POTABLE WATER REQUIREMENTS

A. Components in contact with potable water shall be certified to comply with NSF/ANSI 61. The manufacturer shall furnish a sworn statement that the inspection and all specified tests have been completed and that results comply with the requirements of these Standards. A copy of the Certification shall be provided to Engineer.

PART 3 EXECUTION

3.1 GENERAL

A. Blow-off valves or assemblies shall be installed at the locations indicated on the Drawings and in accordance with the Specifications and manufacturer's recommendations.

3.2 PERFORMANCE AND ACCEPTANCE TESTING

A. Tests shall be conducted in the presence of the Engineer to determine that equipment, materials or systems meet all requirements of these Specifications.

All testing shall be performed solely at the Contractor's expense along with the replacement or repair of any equipment or materials damaged due to use of unapproved test procedures or due to improper handling of test apparatus.

Hydrostatic field test shall be done in accordance with Section 02640 - Pipeline Hydrostatic Testing of these Specifications.

END OF SECTION