

**NORTH DAKOTA STATE WATER COMMISSION  
PROJECT 1736**

**ADDENDUM NO. 3**

**TO THE CONTRACT DOCUMENTS  
FOR  
DODGE AND RICHARDTON PUMP STATION UPGRADES  
SWPP CONTRACT 4-1E/4-2B**

**JULY 2018**

**NOTICE IS HEREBY GIVEN TO BIDDERS** that in reference to the CONTRACT DOCUMENTS of the above referenced contract, the following will be noted:

1. PRE-BID CONFERENCE

Notes from the pre-bid conference on August 15, 2018 are included as Attachment 1 to Addendum No. 3.

2. BID FORM, SECTION II – MECHANICAL CONSTRUCTION CONTRACT

CLARIFICATION: Bid Alternate Items M-1-D, M-2-D, M-3-D, M-1-R, M-2-R, and M-3-R shall include any electrical work for disconnecting the equipment from the existing electrical system and final field electrical and control wiring connections.

3. SECTION 011112 – COOPERATION WITH OTHERS, SEQUENCE OF CONSTRUCTION

Change the reference to 36" pipe under Paragraph F.2.b to 30" ID pipe (32" OD).

4. SECTION 432150 – VERTICAL TURBINE PUMPS

A. Replace Part 2.A.3 as follows

"3. The NPSH required for the supplied pumps shall not be greater than the NPSH available as specified in Part 3.A Service Conditions, at all points on the pump curves up to 8,000 gpm."

B. Add the following as a new sub-section after Part 3.G.7:

"8. Provide and Install stainless steel ¼ turn ball valves to pump motor top and bottom oil reservoir drain outlets, sized to match piping."

C. In the Pump Data tables under Part 3.A.2 for pump D-1, Part 3.A.3 for pumps D-4, D-5, and D-6, Part 3.A.4 for pumps R-1, R-2, and R-3, change "Maximum NPSHR" to "NPSH Available" and the corresponding values to 35 feet.

5. SECTION 434117 – SURGE AIR CHAMBER SYSTEMS

A. Delete the seismic analysis requirement in Part 1.C.6.

B. Delete the structural analysis requirement for the sight gage enclosure in Part 1.C.6.

C. Delete Part 2.Q.

6. DRAWING G-101

Change the reference to 36" pipe under the Richardton Pump Station Item 2.b on G-101 to 30" ID pipe (32" OD).

**This document was originally issued and sealed by Jim Lennington, Registration Number 3251, on 08/17/2018. The original document is stored at Bartlett & West. This document is only valid in the certified electronic format with digital signatures present on this page.**

SOUTHWEST PIPELINE PROJECT  
CONTRACT 4-1E/4-2B  
DODGE AND RICHARDTON PUMP STATION UPGRADES

Pre-Bid Conference Agenda  
9:00 AM August 15, 2018

**Notes from the meeting are  
in Bold Italic font**

ND State Water Commission  
900 East Boulevard Avenue  
Bismarck, ND 58505

**1.0 Introductions**

ND State Water Commission (**Owner**)- Sindhu, Dale Binstock

Southwest Water Authority (**Operating Entity**)- Andy Erickson

Bartlett & West/AECOM

Main point of contact during bidding – Jim Lennington P.E., Bartlett & West

Bartlett & West Project Manager- Jim Lennington, P.E.

AECOM Project Manager- Mark Reitz, P.E. On phone.

NDSWC Project Manager- Sindhuja S.Pillai-Grinolds, P.E.

Contractors-

**See sign in sheet.**

Suppliers-

**See sign in sheet.**

**2.0 Coordination of Work (Section 011100)**

This Section describes the Contractor's responsibilities specific to this project. This Section identifies the scope of work for the General Contractor, Mechanical Contractor, and Electrical Contractor.

Note that both MC and EC have concrete equipment pads. Primarily did this because of MC bid alternates.

**NOTES:**

**Common specifications sections are listed in this section.**

**Mechanical Contractor also has electrical connections for Bid Alternate Items.**

**3.0 Sequence of Construction (Section 011112 and Drawing G-101)**

Detailed description of suggested sequence in 011112 and G-101. Need to minimize and coordinate shut downs.

Site Constraints- See C101 and C-201. Overhead power line at Richardton scheduled to be buried by utility the week of September 17, 2018.

Contractor to maintain access to both pump stations and standby generators for operations.

Note the CPM schedule requirements in Specification Section 013216.

**NOTES:**

*The suggested sequence of construction is largely driven by the pump lead times and the shut downs. 6 hour shut downs are allowed in June, July, and August. 24-hour shut downs are allowed in April, May, September and October. 36-hour shut downs are allowed from November through March. A total of 4 concurrent shut downs are allowed. Information from the pump suppliers indicates the earliest pumps could be expected to be delivered is August of 2019. Construction can begin with Pump No. 6 at Dodge which does not require a shutdown until the piping connections are made. Also keep in mind the likely long lead time that will be associated with the air chambers. Air chambers could be installed earlier and then the connections to the pipelines associated with the air chambers could be coordinated with one of the pump shut downs. The goal is to minimize the number and durations of the shutdowns.*

*The General Contractor is responsible for developing an overall coordinated construction schedule that incorporates schedules from the Mechanical and Electrical Contractors.*

**4.0 Existing Site Conditions**

Copies of reports and drawings referenced in the Supplementary Conditions (EJCDC C-800) are available to any Bidder on request. Bidder is responsible for any interpretation or conclusion Bidder draws from any Technical Data or any other data, interpretations, opinions, or information contained in such reports or shown or indicated in such drawings.

Note that the Geotechnical Reports listed in the Supplementary Conditions are in excess of 30 years old.

See the General Notes in the civil plans for clarification regarding excavation and backfill.

**NOTES:**

*Engineer has developed a drawing, available on request, with approximate locations of bore holes based on the Geotechnical Reports. This drawing is not information on which contractors can rely.*

**5.0 Liquidated Damages**

Provided in EJCDC C-520 (Agreement).

**NOTES:**

*\$1000 per day. Completion date in Agreement is March 30, 2020.  
[Verbally asked if anyone present had questions or concerns regarding the completion date. There was no response.]*

## **6.0 Bidding**

### **6.1 ND Bidding Requirements**

Bid Bond in separate envelope attached to the Bid Envelope

Contractor's license in Bid Bond Envelope

Notarize signatures of contractor and surety with Acknowledgement of Principal and Acknowledgement of Surety (with Bid Bond).

Follow Article 15 of the Instructions to Bidders, EJCDC C-200.

### **6.2 Bid Form**

Bid Sections- If Section IV (Combined single Bid) is submitted, the individual component Bid Sections (General, Mechanical, and Electrical) must be filled out and complete in their entirety. If Bidders want to also submit Bids for the individual sections, then they can use the Bid Adjustment Item to make adjustments in price for the combined bid.

**6.3 Mobilization-** Limited to 5% of the value of work as a whole for the bid schedule to which it applies per Section 012000.

### **6.4 Subcontractors**

Subcontractors are required to have current and valid North Dakota Contractor's License before subcontractor work begins. Sub-contracted work for each Section is limited to 50% of the Contract Price per Supplementary Conditions (SC-7.06.A)

### **6.5 Bid Alternates**

Bid Alternate prices are required to be provided with each Bid.

General Construction Contract Alternate Bid Item 1 –Furnish and replace 12" pump control valve on Pump No. 2 at Dodge.

Mechanical Construction Contract Alternate Bid Items – oil fired unit heaters and dehumidifiers at both Dodge and Richardton, fuel oil tanks and day tanks at both Dodge and Richardton, standby engine generators for heat and lights at both Dodge and Richardton. Mechanical Bid Prices to include pads **and electrical work (addendum No. 3)**.

## **7.0 Vertical Turbine Pumps**

Pump design includes the entire system, including the pump can.

Factory testing can exclude the pump can.

## **8.0 Start-Up**

It is the General Contractor's responsibility to direct all coordination, scheduling, and interfacing of all contracting entities prior to and during start-up of the project. The Mechanical and Electrical contractors are responsible for proper startup and operation of their equipment provided under this contract.

## **9.0 Addendum Items**

Addendum No. 3 will include notes from this meeting.

*Addendum No. 3 has several other items that will be included. One is the Net Positive Suction Head requirements for the Vertical Turbine Pumps and correction of a pipe size on the Richardton site plan. Also may include some clarifications for the air chamber requirements.*

**10.0 Other items.**

-Pump salvage by Owner will require coordination with GC.

*The intention is for the Owner to receive the pumps at the pump station locations. Owner may need help loading the pump equipment.*

-Crane use by Contractors.

*From Section 011100, G.8. General Contractor allowed to use the bridge cranes at the two pump stations after receiving instruction from SWA and Owner. GC, SWA, and Owner will jointly inspect the cranes before being used by GC. Any damages to the facilities due to the GC's use of the cranes shall be repaired such that the facilities are returned to the pre-contract condition. The Mechanical and Electrical contractors will not be authorized to use the bridge crane facilities but can employ the GC in their use.*

**Storage of Equipment (Pumps) [Glen Hille, AECOM]**

*Since the VT pumps are installed one at a time the General Contractor needs to be aware that storage of pumps could become an issue. The pumps will need protection against the elements and freezing temperatures. The Floway Pumps representative agreed. The motors will need to be kept in a warm environment or the warranties will be voided. Staggering shipment should not be an issue. Pumps could be shipped separately or in a combined shipment. If they are stored outside they will require protection.*

**Finish painting of piping and valves. [Mark Reitz, AECOM]**

*General Contractors should be aware that finish painting is required to be completed on the piping and valves prior to when it arrives so that only touch up painting is required. This is called out on the drawings.*

**Traffic Control Associated with General Construction [Glen Hille, AECOM]**

*General Contractors may want to consider what provisions might be necessary for traffic control associated with the installation of the air chamber at the Richardton Pump Station. Any permits necessary from the ND Department of Transportation associated with unloading in the highway right of way or with installation of the air chamber are the responsibility of the General Contractor.*

**Costs associated with replacement transformer at Dodge**

**[Skip Rapp, Denny's Electric]**

*Skip noted the transformer at the Dodge PS was being replaced by Roughrider Electric Co-op per the note on Drawing E-101. Skip mentioned that it was not clear whether Roughrider was doing that for no cost or if the Owner was paying. Engineer will investigate.*

Meeting Sign-In

Date: August 15, 2108

Purpose of Meeting: SWPP 4-1E/4-2B Pre-Bid Meeting

Name	Representing
Sindhuja S. Pillai - Grinolds	NDSWC
Dale Binstock	MSWC
Chris Jacobson	PKG Const. Inc
Andy Erickson	SWA
Richard Plitt	Floway Pumps
SAM DYRUD	VBM - FLOWAY PUMPS
Jim Sprenst	Rice LAKE Con.
Dave Russell	Edling Electric
Skip Rapp	Denny's Electric
Dean Stone	Muth Electric