



May 31, 2023

Mr. Nick Williams, PE, CFM
Director of Public Works
City of Stephenville
298 W. Washington St.
Stephenville, TX 76401

Subject: 536 Wellfield – Well Sites Project
Bid Award Recommendation

Dear Mr. Williams:

Bids were received Thursday, May 11, 2023, and publicly read for the 536 Wellfield – Wells Project. One general contractor, Associated Well Services, Inc., submitted a bid proposal; with that, the Contractor also provided a bid bond. The Provenance Engineering team has reviewed the bid for completeness.

In the Contractor's bid proposal, there is an error in the calculation of the bid amounts for Alternate Bid Item 13. Bid Item 13 – "VFD Package for Wells 1, 4, & 5" was submitted with a unit price of \$32,328.00. The total bid amount for that line item should be \$32,328.00 in lieu of the listed amount of \$32,485.00. The detailed bid tabulation, including corrections, is enclosed in Attachment A.

The submitted bid proposal includes the installation of submersible well pumps and motors, well columns, and associated electrical and instrumentation improvements at the five (5) newly constructed water supply wells within the City of Stephenville 536 Wellfield property. In addition to the well pump installations, the project includes the following: wellhead discharge piping and fittings, 6-inch yard piping, and site fencing. The Engineer's opinion of probable construction cost submitted by Provenance Engineering during Final Design was \$1,337,675.00 for the base bid and \$1,437,675.00 for the base bid with bid alternate. Associated Well Services, Inc. submitted a low bid with a total corrected base bid of \$1,602,515.00 and a total corrected base bid with bid alternate price of \$1,634,843.00.

Due to budget restrictions, an in-depth value engineering was performed by the City, Engineer and Contractor to identify cost savings through revisions to the contract scope of work as well as through changes to specified materials. Through this process, a total cost savings of \$357,843.00 to the overall project was identified. Contract Modification No. 1, enclosed in Attachment B, details the selected revisions to the contract scope of work, and once executed, will lower the total base bid with bid alternate price to \$1,277,000.00.



PROVENANCE ENGINEERING

Rooted to Be *Uniquely Different*

Associated Well Services, Inc.'s bid packet is attached in Attachment C. Based on our team's discussions, Associated Well Services, Inc.'s work performance has been favorable on previous projects. It is our recommendation the City of Stephenville consider entering into contract with Associated Well Services, Inc. to perform the 536 Wellfield – Well Sites project. Please contact me if you have any questions.

Sincerely,

Kent Riker, P.E.
President
Provenance Engineering LLC

Enclosures



City of Stephenville
536 Wellfield – Well Sites
002.21.09

ATTACHMENT A
BID TABULATION

BID TABULATION

ATTENDEES:

Nick Williams _____

Barbara Horton _____

Kent Riker _____

WITNESS:

				BIDDERS	
Bid Opening: 536 Well Field - Well Sites Bid Opening					Associated Well Services, Inc.
Date: May 11, 2023 @ 11:00 a.m.					
1.11	Order Bids Were Opened				
Item	Description	BID QTY	UNIT	UNIT PRICE	BID AMOUNT
1	Mobilization/Demobilization	1	LS	\$77,800.00	\$77,800.00
2	Site Restoration and Cleanup	1	LS	\$107,100.00	\$107,100.00
3	Pump, Motor, Column Pipe, and Appurtenances	5	EA	\$63,200.00	\$316,000.00
4	Wellhead DI Piping, Valves, Fittings, and Appurtenances	5	EA	\$57,800.00	\$289,000.00
5	Chain Link Security Fencing (6' High) with Barb Wire Top	660	LF	\$87.00	\$57,420.00
6	Standard Barbed Wire Fence (5 Strand 48" High)	2245	LF	\$23.00	\$51,635.00
7	6 Bar Heavy Duty Pasture Gate - Double Swing (12' Long x 48" High)	5	EA	\$1,500.00	\$7,500.00
8	6-inch AWWA C900 DR18 Wellfield Collection Pipeline	315	LF	\$124.00	\$39,060.00
9	Disinfection of Pump and Well	5	EA	\$6,000.00	\$30,000.00
10	Disinfection of Existing 6"x 10" Well Collection Line and 16"	1	LS	\$50,000.00	\$50,000.00
11	Electrical and Instrumentation	5	EA	\$109,400.00	\$547,000.00
12	Force Account	1	LS	\$30,000.00	\$30,000.00
1.12	TOTAL BASE BID (ITEMS 1-12)				\$1,602,515.00
	ALTERNATE BID ITEMS				
Item	Description	BID QTY	UNIT		
13	VFD Package for Wells 1, 4 &5	1	LS	\$32,328.00	\$32,328.00
1.13	TOTAL BASE BID WITH BID ALTERNATE (ITEMS 1-13)				\$1,634,843.00



City of Stephenville
536 Wellfield – Well Sites
002.21.09

ATTACHMENT B
CONTRACT MODIFICATION NO. 1

Contract Modification

Project Title:	536 Wellfield – Well Sites
Project Number:	002.21.09
Owner:	City of Stephenville
Contractor:	Associated Well Services
Engineer:	Provenance Engineering
Contract Modification No.:	No. 1
Date:	05/24/2023

The following modification(s) to the Contract are hereby ordered (use additional pages if required):

Bid Item	Description	Modification	Total Change in Bid Amount
1.11	BID PROPOSAL		
	Base Bid Items		
1	Mobilization/Demobilization	1. Reduction in bonding costs due to reduction in overall project scope.	\$ (13,950.00)
2	Site Restoration and Cleanup	2. Removal of well pad and service road repair to specified materials/compaction from the Contract. Contractor shall remain responsible for maintaining the site in a neat and orderly condition as well as final site cleanup. This may include removal of construction debris and any minor repairs associated with the performance of contract work.	\$ (107,100.00)
3	Wellhead DI Piping, Valves, Fittings, and Appurtenances	3. Deletion of Victaulic Couplings from wellhead piping and replacement with attached Detail 5/C302 and Detail 6/C302. 4. Reduction in wellhead piping from 6-in to 4-in Ductile Iron pipe.	\$ (50,500.00)
6	Standard Barbed Wire Fence (5 Strand 48" High)	5. Removal of all work and materials associated with this bid item from the Contract.	\$ (51,635.00)
7	6 Bar Heavy Duty Pasture Gate – Double Swing (20' Opening x 48" High)"	6. Removal of all work and materials associated with this bid item from the Contract.	\$ (7,500.00)
10	Disinfection of Existing 6" & 10" Well Collection Lines and 16" Transmission Line	7. Removal of all work and materials associated with this bid item from the Contract.	\$ (50,000.00)
11	Electrical and Instrumentation	8. Instrument stands shall be SS Unistrut. 9. 4-in flow meters (FM) shall be used in lieu of 6-in FM 10. NEMA 3R Enclosures shall be used in lieu of NEMA 4X 11. Deletion of downstream system Pressure Transducer on discharge piping from all five (5) wells. 12. Increase Contract Time by 30 Days to account for lead times on VFD's.	\$ (56,863.00)
12	Force Account	13. Reduction in amount	\$ (20,452.00)
	Alternate Bid Item		
13.	VFD Package for Wells 1, 4, & 5	14. Correction of Unit Price in Submitted Bid	\$ 157.00
		Total Change in Contract Amount	\$(357,843.00)



Reason for Modification(s):

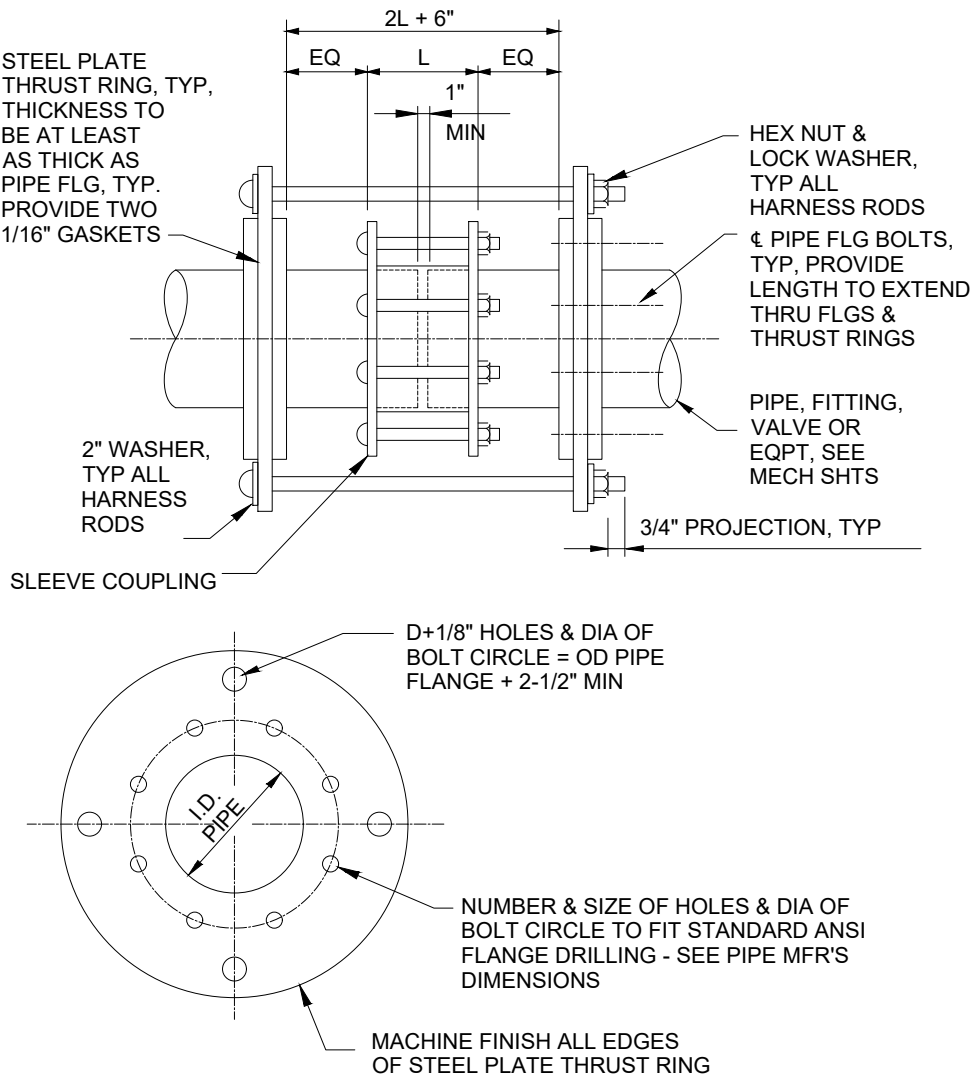
- Due to budget restrictions, an in-depth value engineering was performed by the City, Engineer and Contractor to identify cost savings through revisions to the contract scope of work as well as through changes to specified materials.

Attachments (List Supporting Documents):

- Detail 5/C302
- Detail 6/C302
- Bid Tabulation with Revised Bid Amounts per Contract Modification No. 1

Contract Amount or Price		Contract Times (Calculated Days)	
Original Contract	<u>\$1,634,843.00</u>	Original Duration Final Completion	<u>270</u> Days
Previous Contract Modification(s) (Add/Deduct)	<u>N/A</u>	Previous Contract Modification(s) (Add/Deduct)	<u>N/A</u> Days
This Contract Modification (Add/Deduct)	<u>\$ (357,843.00)</u>	This Contract Modification (Add/Deduct)	<u>30</u> Days
Revised Contract Amount	<u>\$1,277,000.00</u>	Revised Contract Time Final Completion	<u>300</u> Days
Revised Final Completion Date is: _____			

Recommended (Engineer):	Accepted (Owner):	Accepted (Contractor):
By: <u>Kari E. Thompson</u> Date: <u>5/31/2023</u>	By: _____ Date: _____	By: <u>Colin Arnold, President</u> Date: <u>5/31/2023</u>



- NOTES:
1. LUG PLATE MAY BE USED TO HARNESS MECHANICAL COUPLING, FLANGED COUPLING ADAPTOR OR EXPANSION JOINT, AS APPLICABLE.
 2. SEE TABLE I, DRAWING D703, FOR NUMBER AND DIAMETER OF HARNESS RODS.

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THRUST PLATE FOR FLEXIBLE COUPLING
 N.T.S.

TABLE I - HARNESS RODS										
PRESSURE=50 psi			PRESSURE=100 psi		PRESSURE=150 psi		PRESSURE=200 psi		PRESSURE=250 psi	
PIPE SIZE (inch)	NO. RODS	SIZE RODS	NO. RODS	SIZE RODS	NO. RODS	SIZE RODS	NO. RODS	SIZE RODS	NO. RODS	SIZE RODS
3	4	5/8	4	5/8	4	5/8	4	5/8	4	5/8
4	4	5/8	4	5/8	4	5/8	4	5/8	4	5/8
6	4	5/8	4	5/8	4	5/8	4	5/8	4	5/8
8	4	5/8	4	5/8	4	5/8	4	5/8	4	5/8
10	4	5/8	4	5/8	4	5/8	4	5/8	4	5/8
12	4	5/8	4	5/8	4	3/4	4	3/4	4	3/4

- NOTES:
1.

DIMENSIONS SHOWN ARE IN INCHES.
2.

PRESSURE SHOWN IN TABLE I IS THE FIELD TEST PRESSURE OF THE PIPELINE.
3.

HARNESS RODS SHALL BE INSTALLED BASED ON PIPE SIZE AND TEST PRESSURE OF THE PIPELINE. SPACE HARNESS LUGS EQUALLY AROUND PIPE.
4.

STUD BOLTS 5/8" THROUGH 7/8" DIA SHALL HAVE UNC THREADS. STUD BOLTS 1" DIA & LARGER SHALL HAVE EIGHT UN THREADS PER INCH.
5.

STUD MATERIAL SHALL CONFORM TO ASTM A193, GRADE B8, 304 STAINLESS STEEL FOR SUBMERGED, BURIED, IN VAULTS, SUBJECT TO SPLASHING OR CORROSIVE ENVIRONMENT. ALL OTHER APPLICATION STUD MATERIAL SHALL CONFORM TO ASTM A193, GRADE B7.
6.

NUTS AND WASHERS SHALL CONFORM TO ASTM A194, GRADE 8, 304 STAINLESS STEEL FOR SUBMERGED, BURIED, IN VAULTS, SUBJECT TO SPLASHING OR CORROSIVE ENVIRONMENT. ALL OTHER APPLICATION NUTS AND WASHERS SHALL CONFORM TO ASTM A194, GRADE 2H.
7.

COAT THREADED PORTIONS OF STAINLESS STEEL BOLTS AND NUTS WITH ANTI-SEIZE LUBRICANT PRIOR TO ASSEMBLY.
8.

LUG MATERIAL SHALL CONFORM TO ASTM A283, GRADE C OR ASTM A36.
9.

DURING INSTALLATION OF THRUST HARNESS HAND TIGHTEN THE NUT & LOCKNUT GRADUALLY & EQUALLY AT OPPOSITE SIDES UNTIL SNUG TO PREVENT MISALIGNMENT AND ENSURE ALL STUDS CARRY EQUAL LOADS. THEN WRENCH TIGHTEN THE LOCKNUT 1/6 OF COMPLETE TURN. THE THREADS OF THE STUDS SHALL PROTRUDE A MINIMUM OF 3/4" FROM NUT.
10.

SPACE REQUIRED NUMBER OF RODS EVENLY ABOUT CENTERLINE OF PIPE. ROD LOCATION MAY BE ROTATED TO ACCOMMODATE SPECIFIC REQUIREMENTS.
11.

VERIFY THAT CENTER SLEEVE WILL BE ABLE TO CLEAR PLAIN END OF PIPE WHEN MOVED IN ONE DIRECTION.
12.

WHERE INSULATED SLEEVE COUPLINGS ARE INDICATED, INSTALL SLEEVES AND WASHERS ON THRUST RODS. INSULATED SLEEVE COUPLING SHALL HAVE RUBBER BOOT ON BOTH ENDS.
13.

PUMP MANUFACTURER SHALL DESIGN THRUST HARNESS FOR PUMP SUCTION AND DISCHARGE PIPING IN ACCORDANCE WITH HYDRAULIC INSTITUTE STANDARDS. PUMP MANUFACTURER SHALL PROVIDE THIS INFORMATION TO THE CONTRACTOR. CONTRACTOR SHALL PROVIDE ANY AND ALL RESTRAINTS, EXCEEDING THOSE SHOWN ON THIS DRAWING, THAT ARE REQUIRED BY THE MANUFACTURER AT NO ADDITIONAL COST TO THE OWNER.
14.

WHEN USING TWO DIFFERENT DETAILS FOR THRUST HARNESS, CONTRACTOR TO MODIFY GUSSET PLATE HEIGHT TO INSTALL THE THRUST ROD PARALLEL TO THE CENTERLINE OF THE PIPE.

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TABLES FOR HARNESS ROD

N.T.S.

BID TABULATION

ATTENDEES:

Nick Williams, P.E.	City of Stephenville, Texas
Barbara Horton, P.E.	City of Stephenville, Texas
Kent Riker, P.E.	Provenance Engineering Firm #20783
Kori Thompson, P.E. (online)	Provenance Engineering Firm #20783

WITNESS:

				AS BID		CONTRACT MODIFICATION NO. 1			
Bid Opening: City of Stephenville - 536 Wellfield - Well Sites				Associated Well Services 1215 US-67 Stephenville, TX 76401 254-965-5924		Associated Well Services 1215 US-67 Stephenville, TX 76401 254-965-5924			
Date: May 11, 2023 at 11:00 a.m.									
Order Bids Were Opened									
Item	Description	BID QTY	UNIT	UNIT PRICE	BID AMOUNT	UNIT PRICE	CHANGE IN UNIT PRICE	REVISED UNIT PRICE	BID AMOUNT
1.11	BID PROPOSAL								
	Base Bid Items								
1	Mobilization/Demobilization	1	LS	\$ 77,800.00	\$ 77,800.00	\$ 77,800.00	\$ (13,950.00)	\$ 63,850.00	\$ 63,850.00
2	Site Restoration and Cleanup	1	LS	\$ 107,100.00	\$ 107,100.00				
3	Pump, Motor, Column Pipe, and Appurtenances	5	EA	\$ 63,200.00	\$ 316,000.00	\$ 63,200.00	\$ -	\$ 63,200.00	\$ 316,000.00
4	Wellhead DI Piping, Valves, Fittings, and Appurtenances	5	EA	\$ 57,800.00	\$ 289,000.00	\$ 57,800.00	\$ (10,100.00)	\$ 47,700.00	\$ 238,500.00
5	Chain Link Security Fencing (6' High) with Barb Wire Top	660	LF	\$ 87.00	\$ 57,420.00	\$ 87.00	\$ -	\$ 87.00	\$ 57,420.00
6	Standard Barbed Wire Fence (5 Strand 48" High)	2245	LF	\$ 23.00	\$ 51,635.00				
7	6 Bar Heavy Duty Pasture Gate – Double Swing (20' Opening x 48" High)	5	EA	\$ 1,500.00	\$ 7,500.00				
8	6-inch AWWA C900 DR18 Wellfield Collection Pipeline	315	LF	\$ 124.00	\$ 39,060.00	\$ 124.00	\$ -	\$ 124.00	\$ 39,060.00
9	Disinfection of Pump and Well	5	EA	\$ 6,000.00	\$ 30,000.00	\$ 6,000.00	\$ -	\$ 6,000.00	\$ 30,000.00
10	Disinfection of Existing 6" & 10" Well Collection Lines and 16" Transmission Line	1	LS	\$ 50,000.00	\$ 50,000.00				
11	Electrical and Instrumentation	5	EA	\$ 109,400.00	\$ 547,000.00	\$ 109,400.00	\$ (11,372.60)	\$ 98,027.40	\$ 490,137.00
12	Force Account	1	LS	\$ 30,000.00	\$ 30,000.00	\$ 30,000.00	\$ (20,452.00)	\$ 9,548.00	\$ 9,548.00
	Alternate Bid Item				\$ -				
13	VFD Package for Wells 1, 4, & 5	1	LS	\$ 32,328.00	\$ 32,328.00	\$ 32,328.00	\$ 157.00	\$ 32,485.00	\$ 32,485.00
1.12	TOTAL BASE BID (ITEMS 1 - 12)				\$1,602,515.00				\$1,244,515.00
1.13	TOTAL BASE BID WITH BID ALTERNATE (ITEMS 1-13)				\$1,634,843.00				\$1,277,000.00



City of Stephenville
536 Wellfield – Well Sites
002.21.09

ATTACHMENT C
CONTRACTOR BID PACKET