"Healthy environment, healthy people"

Montana Department of
ENVIRONMENTAL QUALITY

Steve Bullock, Governor
Tracy Stone-Manning, Director

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June 27, 2014

STATE OF MONTANA
ADDENDUM
INVITATION FOR BID NO.: 414006
TO BE OPENED: July 9, 2014
TITLE: SAND COULEE WATER SYSTEM REPLACEMENT PROJECT

ADDENDUM NO. 3

To All Bidders:

Section II in the Contract Documents have changed.

The following modifications to the Bid Form have been made:
Bid Item 103 – Replace "EA" with "L.F."
Bid Item 204 – Replace "7" with "1"
Bid Item 306 - Replace "220" with "1"

A Bid Form incorporating these revisions is included in this Addendum which will replace the Section II 2.1 Bid Form.

Section IV Technical Specifications of the Bid Documents have changed

IFB 414006 Technical Specifications Sections 02220, 02221, and 02930 under Division 2 – Delete all references to stripping and stockpiling of existing topsoil. **All topsoil on the project will be imported.**

IFB 414006 Technical Specification Section 02660 Water Distribution, Paragraph 3.2, Item B under Division 2 - Delete **"A maximum of three water service interruptions will be allowed for any individual service for the entire duration of the Project".**

IFB 414006 Technical Specifications Section 02930, Paragraph 2.7, Item A under Division 2 - Replace "Imported topsoil a minimum of 3" depth is required" with **"Imported topsoil a minimum of 6" depth is required".**

IFB 414006 Technical Specification Section 01620 Surveying Layout of Work and Construction Staking has been added to the Technical Specifications for IFB 414006 and is included in this Addendum.

IFB 414006 Technical Specification Section 13208 Water Storage Tank, Paragraph 1.2, Item H under Division 13 - Paragraph 1.2, Item H has been deleted in its entirety.

IFB 414006 Technical Specification Section 13208 Water Storage Tank, Paragraph 2.0, Item D(2) under Division 13 – Replace "Section 10.4 of ANSI/AWWA D103, latest revision" with " **Section 12.4 of ANSI/AWWA D103, latest revision"**.

IFB 414006 Technical Specification Section 13208 Water Storage Tank, Paragraph 4.0, Item D(3) under Division 13 – Replace "Fusion Tri Fusion" with "**Fusion HV Isofusion"**.

IFB 414006 Technical Specification Section 13208 Water Storage Tank, Paragraph 4.0, Item D(5) under Division 13 – Replace "2 coats (Permastore/Fusion)" with **"3 coats (Permastore/Fusion)"**.

IFB 414006 Technical Specification Section 13208 Water Storage Tank, Paragraph 4.0, Item D(6) under Division 13 – Replace "AquaStor or 2 coat for Fusion" with **"AquaStor or Permastore/Fusion)"**.

IFB 414006 Technical Specification Section 13208 Water Storage Tank, Paragraph 4.0, Item D(7) under Division 13 – Replace "10.0 to 18.0 mils (0.010 to 0.018 inches)" with **"10.0 to 16.0 mils (0.010 to 0.016 inches)"**.

IFB 414006 Technical Specification Section 13208 Water Storage Tank, Paragraph 4.0, Item D(8) under Division 13 – Replace "7.0 to 15.0 mils (0.007 to 0.015 inches)" with **"10.0 to 16.0 mils (0.010 to 0.016 inches)"**.

IFB 414006 Technical Specification Section 13208 Water Storage Tank, Paragraph 5.0, Item A(4) under Division 13 – Replace "minimum height of 19 inches" with **"minimum height of 9 inches"**.

Question and Answers: Group 2

Question # 1
Since the Sand Coulee project is a federally funded project are there restrictions such as 100% American made products only on project, Assembled in America products only, or are you allowing the use of imported products in regarding to utility fittings, etc.?

DEQ Answer: Bidders must comply with the requirements of 43 CFR Part 12, Subpart E which implements the Buy American Act. The Project does not include funds from the Drinking Water State Revolving Fund (DWSRF) and is therefore not subject to the Consolidated Appropriations Act of 2014 (H.R. 3547). For this Invitation for Bid, the 150,000 gal Storage Tank specified in Bid Item No. 203 has been determined to meet the criteria for an exclusion from the Act.

Bidders must comply with the following:
Buy American Act—Construction Materials
(a) The Buy American Act (41 U.S.C. 10) provides that the Government give preference to domestic construction material.
Components, used in this clause, means those articles, materials, and supplies incorporated directly into construction materials.

Construction material, as used in this clause, means an article, material, or supply brought to the construction site for incorporation into the building or work. Construction material also includes an item brought to the site pre-assembled from articles, materials or supplies. However, emergency life safety systems, such as emergency lighting, fire alarm, and audio evacuation systems, which are discrete systems incorporated into a public building or work and which are produced as a complete system, shall be evaluated as a single and distinct construction material regardless of when or how the individual parts or components of such systems are delivered to the construction site.
Domestic construction material, as used in this clause, means (a) an unmanufactured construction material mined or produced in the United States, or (b) a construction material manufactured in the United States, if the cost of its components mined, produced, or manufactured in the United States exceeds 50 percent of the cost of all its components. Components of foreign origin of the same class or kind as the construction materials determined to be unavailable pursuant to § 12.810(a)(3) of43 CFR part 12, subpart E shall be treated as domestic.
(b) The contractor agrees that only domestic construction material will be used by the contractor, subcontractors, materialmen, and suppliers in the performance of this agreement, except for foreign construction materials, if any, listed in this agreement.

Question # 2
Is this correct that for every 3 thousand feet restoration can't be more than 1 thousand feet behind? Does this apply to gravel and Sod?

DEQ Answer: Gravel, asphalt, and sod restoration can't be more than 1,000 feet behind pipe installation. This requirement will not apply to seeding restoration.

Question # 3
What is the time limit on construction?

DEQ Answer: The time limit on construction is 125 calendar days.

Question # 4
What are the dimensions of the existing tank?

DEQ Answer: The existing tank is 30 feet in diameter, 20 feet in height and has a volume of 110,000 gallons.

Question # 5
What is the existing tank made out of?

DEQ Answer: The existing tank is bolted galvanized steel.

Question # 6
Is Hazwoper training required?

DEQ Answer: It is the responsibility of the contractor to determine training requirements in their Health and Safety Plan.

Question # 7

Will the old system still be running while installing new system?

DEQ Answer: The old system must remain operational until the new system is completed and operational.

Question # 8
Do we have to have 2 year maintenance on all the trenches?

DEQ Answer: A 2 year maintenance period is required on all trenches.

Question # 9
What is a settled trench?

DEQ Answer: A settled trench is a trench that poses a hazard to vehicles and/or a trench for which complaints are received by the Sand Coulee Water District.

Question # 10
When do you anticipate the award to be, and will there be winter shutdown?

DEQ Answer: DEQ will expedite the award process, which is anticipated no later than August 9, 2014. The project is anticipated to be completed prior to winter shutdown.

Question # 11
How far can we move away from the fiber optics?

DEQ Answer: Easement restrictions limit the distance pipe alignments can be modified. DEQ anticipates that pipe alignments may be moved 1 to 2 feet subject to Engineer approval.

Question # 12
How well are the septic layed out? Are we 100 percent sure we know where they are?

DEQ Answer: Information regarding existing septic systems has been collected by the Sand Coulee Water District and provided to DEQ and the Engineer. This information was incorporated in the designed layout of the water distribution system. Exact locations of private septic systems have not been determined.

Question # 13
What happens if we run into a drain field?
DEQ Answer: There is a bid item for repair of drain field piping within the limits of the trench excavation. Damage to these items outside of the trench limits is the Contractor's responsibility. All work associated with damaged septic system components will be subject to review/approval by the Cascade County Board of Health.

Question # 14
What material do the existing service pipes consist of?

DEQ Answer: Existing service pipes are primarily black poly pipe. However, some galvanized or copper may be present.

Question # 15
Are all the valves on the main workable?

DEQ Answer: The Sand Coulee Water district has indicated most valves are workable, but some may not have been used for a while.

Question # 16
Specifications call out a Healy-Ruff control system. Will you consider an Allen Bradley or Siemens control system installed by Automation Werx, LLC?

DEQ Answer: An alternate system will be considered only if the proposed system meets the requirements of Specification 16190. Refer to Paragraph 3.0 of Specification 1690 for the requirements for submitting a substitution request.

Question # 17
Bid Item #207 is for the overflow / drain piping & valves - Does this bid item include all of the 8" PVC pipe, the 24" RCP inlet box shown on sheet ST-4 and the splash pad seen on sheet ST-5 or are the dollars for these items to be included in another bid item?

DEQ Answer: Bid Item #207 includes all material and effort associated with the storage tank overflow and the drain piping, including the 8" PVC pipe, the 24" RCP inlet box shown on Drawing ST-4 and the splash pad shown on Drawing ST-5.

Question # 18
Bid Item #206 is titled Outlet Piping (tank to 1+00 and valves) however the 8" gate valve is past the 1+00 mark so is the valve to be included in this bid item? Also why is valves plural? What other valve is to be include in this bid item?

DEQ Answer: The 8" gate valve is not included in Bid Item #206. The valve is included in Bid Item #201. No valves are included in the Bid Item.

Question # 19
What does note (N.O.) mean as this note is not listed anywhere on the abbreviation sheet G-2?

DEQ Answer: N.O. indicates Normally Open.

Question # 20
Bid item #205 is for the tank inlet piping from the tank to the wells. I do not see any blown up views of the termination of this pipe at the wells. Sheet P-1 shows the pipes to the wells but I need more info on the termination of these pipes at the wells.

DEQ Answer: Contractor will excavate at well casing and connect new piping to the existing pitless adapter.

Question # 21
Spec section 13208 item 1.2 C asks for the tank manufacturer to have its facilities at one USA location. Fusion tanks facilities are in Eye Suffolk England. Can this be modified so that two glass fused steel bolted companies can provide pricing on the tanks? A reference list of other tank projects provide by Fusion in the US can be provided upon request.

DEQ Answer: Please refer to the answer to Question 1 above.

Question # 22
Can spec section 13208 item 1.2 D be modified to include Fusion Tanks & Silos?

DEQ Answer: Please refer to the answer to Question 1 above.

Question # 23
Spec section 13208 item H asks for the tank steel to be made in the USA yet my understanding of the project is that the funding for this project job does not require US steel. Can this language be changed?

DEQ Answer: Please refer to the answer to Question 1 above. Item H has been deleted from Specification 13208.

Question # 24
Spec section 13208 item 2.0 D 2 - the proper AWWA section for glass coating is section 12.4 not 10.4.

DEQ Answer: Specification 13208 has been revised as indicated above.

Question # 25
Spec section 13208Section 4.0 D-3 asks for the tank coating to be the Fusion Trifusion coating which is a 3 coat 2 furnace fire coating yet section 13208, item 4.0 item 6 asks for the Fusion 2 coat. Is the coating to be a 2 coat or a 3 coat? Note the Aquastore Vitrium coating is only fired in the furnace once per the attached Aquastore brochure page 2. The Fusion Trifusion coating is fired twice in the furnace per the attached Fusion brochure hence the Trifusion will naturally cost more to fire once more than the Aquastore Vitrium coating. Will the Fusion HV Isofusion product be allowed to be used for bidding as it is only fired once and this Fusion coating meets the specification required dry voltage limits and the required coating thickness requirements per attached brochure? The attached Fusion brochure recommends this coating for water storage. The Fusion HV Isofusion coating meets the AWWA D103-09 requirements for potable water storage. The project requires a 10 year coating warranty protecting the owner from any coating issues with any level of tank sheet coating issues.

DEQ Answer: All coatings are to be 3 coats. Specification 13208 has been revised as indicated above.

Question # 26
Spec section 13208, item 4.0 numbers 7 & 8 ask for different levels of coating thickness on the exterior side of the tank sheet versus the interior side of the tank sheet. You cannot do one side more than the

other side. Both sides will get the same thickness. Please modify these spec sections to coating shall meet section 12.4.2.2 of the AWWA D103-09 which states coating shall be between 6 mil to 19 mils.

DEQ Answer: The required minimum thickness is 10 to 16 mil. Specification 13208 has been revised as indicated above.

Question # 27
Spec section 13208 item 5.0 A item 5 - please change to a minimum of 9" instead of 19".

DEQ Answer: Specification 13208 has been revised as indicated above.

Question # 28
Spec section item D 3 mentions coating to floor sheets, however this tank is to have a concrete floor not a glass floor per the drawings sheet ST-3 and spec section 13208, 5.0 items a-d.

DEQ Answer: The storage tank floor is concrete. No coating is required on the storage tank floor.

Question #29
Spec section 13208 item D asks for the tank glass roof to have a roof walkway with handrail. A walkway can cost up-words of $30K extra. Can we install basic hand-railing with toe kick and anti skid tape instead of a walkway? If a walkway is required does it need to be made out of aluminum or stainless steel? If we can use hand-railing can it be made out of aluminum? Also since the Fusion glass beams are on the exterior side of the roof rather than the interior side and the roof hand-railing is mounted to the roof beams can a slightly different arrangement be made on the hand-railing than depicted on drawing sheet ST-2 as the roof beams would be in way of this arrangement on sheet ST-2.

DEQ Answer: An aluminum walkway and handrail to the center vent is required. DEQ anticipates that a slightly different arrangement to the roof beam/handrail arrangement may be acceptable.

Question #30
Is the fall protection bracket shown on drawing sheet ST-2 the same thing as the required safety equipment in spec section 13208 item 5.0 item 6?

DEQ Answer: The fall protection bracket is to be part of the storage tank roof to allow personnel to connect fall protection equipment.

Question # 31
The geo report does not give the frost depth for Sand Coulee. What is the frost depth for this area?

DEQ Answer: Based on available information, the frost depth for Sand Coulee is 42".

Question # 32
What are the dimensions of the existing tank to be demolished? Does the existing tank have a steel floor or a concrete floor?

DEQ Answer: The existing tank is 30' in diameter, 20' in height with a volume of 110,000 gallons. The floor of the tank is unknown.

Question # 33
Will you consider adding more days to the contract time?

DEQ Answer: Not at this time.

Question # 34
What is the tolerance on steeling of trenches, for the 2-year warranty?

DEQ Answer: There is no specific tolerance. The 2-year warranty will cover trench settlement which causes a hazard to vehicles resulting in complaints being made by the Sand Coulee Water District.

Question # 35
The Fusible PVC is only available through one vender. Would you consider DIPs O.D. on HDPE?

DEQ Answer: Fusible PVC is required

Sincerely,

/s/ Tom Henderson,
DEQ Project Officer

Acknowledgment of Addendum:

Bidder must acknowledge receipt of this addendum. This page must be submitted at the time set for the bid opening or the bid may be disqualified from further consideration.

I acknowledge receipt of Addendum No. 3.

Signed:_____

Company Name:_____

Date:_____

-REVISED BID FORM-

SECTION II
2.1 BID FORM

OWNER: The Montana Department of Environmental Quality (DEQ)

CATEGORY OF IMPROVEMENTS: Mine Reclamation

CONTRACT TITLE: Sand Coulee Water System Replacement Project

CONTRACT NUMBER: DEQ Contract No. 414006

ASSURANCES BY BIDDER:

In presenting this Bid, the undersigned Bidder expressly (1) makes the following assurances and representations, (2) acknowledges that the DEQ may rely on these assurances and representations by Bidder and (3) acknowledges that, in the event Bidder is awarded the Contract for the Work contemplated herein, these representations will become part of the Agreement between Bidder and Owner for the performance of the Work. Terms used herein will have the meanings set forth in the definitions appearing in the General Conditions of the Contract.

1. The undersigned Bidder has familiarized itself with the nature and extent of the Contract Documents; Work; locality; all local conditions; and federal, state and local laws, ordinances, rules, and regulations; that in any manner may affect cost, progress, or performance of the Work.

2. Bidder has studied carefully all reports of investigations and tests of subsurface and latent physical conditions at the site or otherwise affecting cost, progress, or performance of the Work which were relied upon by Engineer in the preparation of the Drawings, Special Provisions and Technical Specifications and which have been identified in the Drawings, Special Provisions, and Technical Specifications (and/or attachments thereto).

3. Bidder has made or caused to be made such examinations, investigations, and tests and studies of such reports and related data in addition to those referred to in the above paragraph as are necessary for the performance of the work at the Contract Price within the Contract Times and in accordance with the other terms and conditions of the Contract Documents; and no additional examinations, investigations, tests, reports, or similar data are or will be required by Bidder for such purposes.

4. Bidder has correlated the results of all such observations, examinations, investigations, tests, reports, and data with the terms and conditions of the Contract Documents.

5. Bidder has given Engineer written notice of any conflict, error, or discrepancy that Bidder has discovered in the Contract Documents and the written resolution thereof by Engineer is acceptable to Bidder.

6. Bidder agrees that the Contract Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance of the Work. Bidder acknowledges that it has adequate information, independently verified by Bidder, to prepare and offer this Bid.

7. Bidder has prepared this bid and stands prepared to perform the Work in accordance with all terms and conditions of the Contract Documents and all applicable laws and regulations regarding performance of the Work, including without limitation, wage and hour requirements, health and safety requirements,

equal employment opportunity and nondiscrimination requirements and those requirements specifically discussed in detail in Part II of the Supplementary Conditions (and attachments).

8. Bidder agrees that this Bid will be good and cannot be withdrawn for a period of thirty (30) calendar days after the actual date of the Bid opening.

9. Bidder further certifies: that the only persons or parties interested in this Bid as principals are as stated herein; that at least 50% of the work will be performed by bona fide Montana residents as defined in Section 18-2-401, MCA; that Subcontractors will perform less than 50% of the work; that the Bid is made without any collusion, as defined by state and federal anti-trust laws, with other persons, firms, or corporations; and that the Bid is made upon the Bidder's independent price determination.

10. The Bidder acknowledges receipt of addenda numbered (mark "N/A" if no addenda were issued):

_____

11. Bidder has completed the Bidders Questionnaire and Ownership Information. Bidder has attached a copy of its current Montana Certificate of Bidder Registration to the Bid Form. Failure to provide all requested information may result in a determination that the Bidder is not a responsive or responsible Bidder and is a basis for Owner to reject the Bid under Article 11, Instructions to Bidders.

12. Time is of the essence in completing the Project. Should Bidder fail to complete the Work within the Contract Time, as adjusted in accordance with the terms of the Contract Documents, it will be charged the sum of Twelve Hundred and Fifty ($1,250.00) dollars per day for each day beyond the Contract Time that the Work is not substantially complete.

13. In accordance with the above understanding, and under the terms and conditions set out in the Instruction to Bidders, the undersigned proposes to furnish all materials and perform the Work within the Contract Time of **one hundred twenty five (125) consecutive calendar days,** complete in its entirety in the manner and under the conditions required in the Contract Documents, at the price listed herein as Total Contract Price. This price covers all expenses to be incurred in performing the Work required under the Contract Documents, of which this Bid Form is a part. Amounts are shown in both words and figures, where indicated. In case of discrepancy, the amount shown in words will govern.

The Total Contract Price includes all labor, equipment, materials, mobilization, overhead, profit, insurance, and incidentals required to complete the Work.

Specified bond and insurance costs:

1. The Total Contract Price includes the following sums for 100 percent Payment and Performance Bonds:

_____ Dollars ($_____)

2. The Total Contract Price includes any necessary sums for pollution liability insurance premiums. If pollution liability insurance premium is to be paid separately for the Work at this site, the amount of the separate premium is:

_____ Dollars ($_____)

SECTION II
2.1 BID FORM

Coverage period: (a) annual ___, or (b) other (specify) _____.

(The information requested above is simply for Owner to determine the fiscal impact of specific requirements of the contract. Owner's request for this additional information is not to affect Bidder's Total Contract Price.)

SECTION II
2.1 BID FORM

SCHEDULE #1: WATER DISTRIBUTION

Item No.	Est. Quantity	Unit	Name of Pay Item with Unit Bid Price Written in Words		Unit Bid Price	Amount Bid
101	8,957	L.F.	**8" PVC C-900, CL200**			
at				Per L.F./		$
102	22	EA	**8" Gate Valve**			
at				Per EA/		$
103	847	L.F.	**6" PVC C-900, CL200 (FH mains)**			
at				Per L.F./		$
104			**RESERVED**			
at				Per /		$
105	1,600	L.F.	**¾" Water Service Line (HDPE IPS SIDR7) and Future Stub**			
at				Per L.F./		$
106	67	EA	**¾" Water Service Connect to New Main**			
at				Per EA/		$
107	78	EA	**¾" Curb Stop and Box**			
at				Per EA/		$
108	89	EA	**¾" Water Service Connect to Existing Service Line**			
at				Per EA/		$
109	78	EA	**5/8" x ¾" Meter (and Meter Pit Installation)**			
at				Per EA/		$
110	22	EA	**Fire Hydrant Assembly**			
at				Per EA/		$
111	1,700	C.Y.	**Imported Bedding – Type 1 (Pipe)**			
at				Per C.Y./		$

SECTION II
2.1 BID FORM

Item No.	Est. Quantity	Unit	Name of Pay Item with Unit Bid Price Written in Words	Unit Bid Price	Amount Bid
112	260	C.Y.	**Bedding – Type 2 (Trench Stabilization)**		
at _____			Per C.Y./	_____	$ _____
113	1	EA	**Connect New 8" Main to Existing 6" Main**		
at _____			Per EA/	_____	$ _____
114	6	EA	**Fire Hydrant Guard Post Assembly**		
at _____			Per EA/	_____	$ _____
115	2	EA	**Sampling Station**		
at _____			Per EA/	_____	$ _____
116	1	L.S.	**Temporary Water**		
at _____			Per L.S./	_____	$ _____
117	3	EA	**Flowable Fill Trench Plug**		
at _____			Per EA/	_____	$ _____
118			**RESERVED**		
at _____			Per /	_____	$ _____
119			**RESERVED**		
at _____			Per/	_____	$ _____
120	1	L.S.	**2" ∅ Meter (in Fire Hall) and 2" Service piping**		
at _____			Per L.S./	_____	$ _____
121	1	L.S.	**Pressure Reducing Station**		
at _____			Per L.S./	_____	$ _____
122	1	L.S.	**Meter Reading, Software and Training**		
at _____			Per L.S./	_____	$ _____
123			**RESERVED**		
at _____			Per/	_____	$ _____

124	240	L.F.	**Directional Drilling with 8" Fusible PVC Pipe**			
at				Per L.F./		$
125	1	EA	**Auto Air Release Manhole**			
at				Per EA/		$

SCHEDULE #1 WATER DISTRIBUTION AMOUNT (ITEMS 101 TO 125)

(Figure)

(Written in Words)

SCHEDULE #2: STORAGE TANK

Item No.	Est. Quantity	Unit	Name of Pay Item with Unit Bid Price Written in Words		Unit Bid Price	Amount Bid
201	1	L.S.	**Unclassfied Excavation/Site**			
at				Per L.S./		$
202	1	L.S.	**Foundation**			
at				Per L.S./		$
203	1	L.S.	**150,000 gal Storage Tank**			
at				Per L.S./		$
204	1	L.S.	**Tank Level Control Manhole**			
at				Per L.S./		$
205	1	L.S.	**Inlet Piping From Wells to Tank and Valves**			
at				Per L.S./		$
206	1	L.S.	**Outlet Piping (Tank to 1+00) and Valves**			
at				Per L.S./		$
207	1	L.S.	**Overflow/ Drain Piping and Valves**			
at				Per L.S./		$

208 1 L.S. **Flow Meter Manhole**
at _____ Per L.S./ _____ $ _____

209 220 L.F. **Security Fence at Storage Tank**
at _____ Per L.F./ _____ $ _____

210 1 L.S. **Existing Storage Tank Removal**
at _____ Per L.S./ _____ $ _____

211 1 L.S. **Submersible Mixer**
at _____ Per L.S./ _____ $ _____

SCHEDULE #2 STORAGE TANK AMOUNT (ITEMS 201 TO 211)

_____
(Figure)

_____
(Written in Words)

SCHEDULE #3: PUMPING (Well House)

Item No.	Est. Quantity	Unit	Name of Pay Item with Unit Bid Price Written in Words	Unit Bid Price	Amount Bid
301	1	L.S.	**Unclassified Excavation, Grading and Concrete**		
at _____			Per L.S./	_____	$ _____
302	1	L.S.	**Utility Company Electrical Service Upgrade**		
at _____			Per L.S./	_____	$ _____
303	1	L.S.	**Masonry Install**		
at _____			Per L.S./	_____	$ _____
304	1	L.S.	**Building Roof, Interior, Doors and Painting**		
at _____			Per L.S./	_____	$ _____
305	1	L.S.	**General Electrical**		
at _____			Per L.S./	_____	$ _____

306 1 L.S. **SCADA, Control and Webcast**
at _____ Per L.S./ _____ $ _____

307 1 L.S. **Heating**
at _____ Per L.S./ _____ $ _____

308 **RESERVED**
at _____ Per / _____ $ _____

SCHEDULE #3 PUMPING (WELL HOUSE) AMOUNT (ITEMS 301 TO 307)

_____
(Figure)

_____
(Written in Words)

SCHEDULE #4: SURFACE RESTORATION AND MISCELLANEOUS

Item No.	Est. Quantity	Unit	Name of Pay Item with Unit Bid Price Written in Words	Unit Bid Price	Amount Bid
401	1	L.S.	**Mobilization, Bonding, Insurance** at _____ Per L.S./	_____	$ _____
402	1	L.S.	**Layout and Construction Staking** at _____ Per L.S./	_____	$ _____
403	1	L.S.	**Traffic Control** at _____ Per L.S./	_____	$ _____
404	1	L.S.	**Record Documents** at _____ Per L.S./	_____	$ _____
405	15	H.R.	**Exploratory Excavation** at _____ Per H.R./	_____	$ _____

SECTION II
2.1 BID FORM

Item No.	Est. Quantity	Unit	Name of Pay Item with Unit Bid Price Written in Words	Unit Bid Price	Amount Bid
406	200	L.F.	**Culvert Replacement (w/Distribution)**		
at _____			Per L.F./	_____	$ _____
407	1932	S.Y.	**Asphalt and BC Gravel Restoration (3"/10")**		
at _____			Per S.Y./	_____	$ _____
408	3413	S.Y.	**Tank Access Roadway (4" depth)**		
at _____			Per S.Y./	_____	$ _____
409	4975	S.Y.	**Gravel Surface Restoration (6" depth)**		
at _____			Per S.Y./	_____	$ _____
410	1400	S.Y.	**Geotextile Stabilization Fabric**		
at _____			Per S.Y./	_____	$ _____
411	168	C.Y.	**Gravel Fill (Pit-run)**		
at _____			Per C.Y./	_____	$ _____
412	1	L.S.	**Dryland Seed Restoration**		
at _____			Per L.S../	_____	$ _____
413	1	L.S.	**Culverts at Tank Hill**		
at _____			Per L.S./	_____	$ _____
414	620	S.Y.	**Lawn Sod Restoration**		
at _____			Per S.Y./	_____	$ _____
415	50	S.Y.	**Concrete Slab**		
at _____			Per S.Y./	_____	$ _____
416	200	L.F.	**Existing Sewer Drain or Drainfield Pipe Repair**		
at _____			Per L.F.	_____	$ _____

SECTION II
2.1 BID FORM

SCHEDULE #4 SURFACE RESTORATION AND MISCELLANEOUS AMOUNT (ITEMS 401 TO 416)

(Figure)

(Written in Words)

TOTAL COMBINED SCHEDULE #1, 2, 3 and 4 AMOUNT

(Figure)

(Written in Words)

SECTION II
2.1 BID FORM

Contractor Registration Number / Effective Date:_____
[Attach copy of current Certificate of Contractor Registration(s) to Bid Form].

Signature of Bidder

If an individual: _____, doing business as _____

_____

Date: _____

If a Partnership: _____

by _____, partner

_____

Date: _____

If a Corporation: _____ (name of Corporation)

(a _____ Corporation)

by _____

Title _____ (SEAL AND ATTEST)

Date: _____

Business Address of Bidder: _____

_____

Email: _____

Telephone No(s): _____

Fax Number: _____

Tax ID Number: _____

If Bidder is a joint venture, other party must sign the Bid and provide the same information (set forth above).

SPECIFICATION 01620- LAYOUT OF WORK, CONSTRUCTION STAKING, AND SURVEYING

SECTION 01620

LAYOUT OF WORK, CONSTRUCTION STAKING AND SURVEYING

1.0 GENERAL

1.1 Scope

A. Prior to commencing work, Contractor will carefully compare and check all Drawings, each with the other that in any way affects the location or elevation of the work to be executed, and should any discrepancy be found, Contractor will immediately report the same to the Engineer for verification. Any duplication of work made necessary by failure or neglect on his part to comply with this function will be done at Contractor's sole expense.

B. The Contractor will be responsible for all layout and construction staking based on the Engineer's existing field control and coordinates provided. All layout and construction staking will be performed by qualified personnel under the direct supervision of a licensed surveyor or Engineer. Prior to commencing work, Contractor will submit the qualifications of the person performing the field survey and also for the licensed surveyor who is supervising for Engineer approval. Dimensions and elevations indicated in Drawings will be verified by the Contractor. Any discrepancies between Drawings, Specifications, and existing conditions will be referred to the Owner before work is performed.

C. Additional work covered by this section includes coordination with individual property owners and establishment of water service locations.

1.2 Referenced Standards and Specifications

A. All references to established standards or specifications refer to the latest revision or, current edition, at the time of call for bids.

B. Montana Public Works Standard Specifications Sixth Edition April 2010 (MPWSS).

1.3 Related Sections

A.	Section 01570	Traffic Control
B.	Section 01720	Contract Documents
C.	Section 02221	Trench Excavation and Backfill for Pipelines and Appurtenant Structures

D. Section 02603 Reinforced Concrete Manholes and Castings

E. Section 02660 Water Distribution Systems

1.4 Standard Drawings

A. Standard Drawing No. 501 Traffic Control

B. Standard Drawing No. 01570-6 Traffic Control Minimum Standard Rural Work Site (Montana Public Works Standard Specifications)

2.0 PRODUCTS

Not Used

3.0 EXECUTION

3.1 Traffic Control

A. Establish approved traffic control measures, and maintain throughout execution of this work.

Refer to Section 01570 and approved submittals.

3.2 Existing Control

A. Engineer has established survey control points. Horizontal coordinates and elevations for the control points, and major water main fittings will be provided to Contractor.

B. The survey control points may have been disturbed or obliterated prior to Contractor beginning work. The Contractor will be responsible for reestablishing all critical survey control points using the remaining control points. The Contractor will be responsible for preserving and protecting the survey control points until proper referencing by the Contractor has been completed. Any control obliterated, removed, or otherwise lost or damaged during construction will be replaced at Contractor's expense.

3.3 Construction Staking

A. Contractor will provide construction staking from Contractor's layouts and the survey control points. Contractor's construction staking will include:

1. Line and grade 50 feet on center (O.C.) for all piping as necessary to check pipeline construction in the field.
2. Horizontal centerline-centerline (and invert elevation if pipe line is graded) for all water main fittings.
3. Offset stakes for centerline-centerline of water main fittings.

B. Offset stakes will be maintained and protected by Contractor until record drawings are submitted and approved.

3.4 Verification of Installed Water Main Fittings

A. During construction the Contractor will enlist the services of an independent land surveyor to provide survey verification of each buried fitting prior to backfilling. This effort will be concurrent with each pipeline segment of pipe installation. After all pipe segments have been installed, Contractor will provide Owner with survey notes and record drawings verifying that each fitting has been located.

3.5 Water Service Line Locations

A. Approximate locations of water service and some private sewer service lines to individual properties have been depicted on the Drawings. Contractor will be responsible for locating each house sewer facilities and water service. It will be the Contractor's responsibility to coordinate with each landowner and the Sand Coulee Water District to determine potential location for each water service connection, prior to pipe-laying past each property.

B. Contractor's effort to coordinate with property owners will include placing a notice on all lots (house or business) prior to the construction activities. The memo will request that the property owner provide any available septic system and water service information to Contractor.

3.6 Water Service Location

A. After installation of water service, and prior to backfilling, Contractor will determine the horizontal location of each water service line relative to a water line surface fixture.

Contractor will install a T-metal fence post painted blue at each curb stop.

3.7 Protection/Replacement of Existing Monuments and Property Pins

A. Contractor will be responsible for the protection and maintenance of all existing monuments and property pins within the established construction easements. Not all existing property monuments are shown on the Drawings. Damage to any monuments or property pins will require replacement of such by a Registered Land Surveyor at no cost to the Owner.

B. Contractor will employ a licensed surveyor to reference and supervise the replacement of existing land survey markers if damaged by the Work. No extra compensation will be allowed for any monument or marker requiring replacement.

4.0 SUBMITTALS

A. Staking notes from all construction staking in notebook form. Contractor will submit staking notes weekly as staking is completed.

B. Proposed Notice to property owners/occupants. Contractor will submit 7 days prior to distribution.

C. Documentation from Registered Land Surveyor of any reset monuments or property pins.

END SECTION 01620