

## ADDENDUM NO. 2

### SPECIFICATIONS AND CONTRACT DOCUMENTS

TO: All Plan Holders and Prospective Bidders

TITLE: LEWIS & CLARK STATE PARK  
WATER TREATMENT SYSTEM REPLACEMENT  
MONONA COUNTY, IOWA

PROJECT NO: 13-01-67-02

DATE OF ISSUE: April 14, 2016

DATE OF BID OPENING: April 21, 2016

The following changes, corrections, clarifications and additions shall be made to the Specifications and Contract Documents for the above-named project and shall be as binding as if incorporated in the original Contract Documents. The Contractor shall acquaint himself with all aspects of this Addendum.

All other provisions and stipulations of the Contract Documents remain in effect, as originally issued.

The Contractor shall acknowledge receipt of all addenda on the Proposal Form.

The following shall be deleted, modified or added to as follows:

### **CHANGES AND CLARIFICATIONS TO CONTRACT DOCUMENTS**

#### PROJECT MANUAL

1. In the Table of Contents under Section 00002- page 2 add:  
  
10000.....Demolition of Building Structure.....1
2. Replace the Proposal Form (00300) with the updated proposal form.
3. Under Section 02660 page 16, Paragraph 3.07.D.4.a. Replace the formula with:

$$Q = \frac{L * D * P^{1/2}}{148000}$$

Q= Allowable leakage (gal/hr)  
L= Length of pipe tested in feet  
D= Pipe diameter in inches  
P= Sq.root of the average pipe pressure in psi.

4. Under Section 26100 page 3, replace:
  - a. Paragraph 2.A with:  
"The casing pipe shall conform to ASTM F480 and ANSI/NSF

Standard 61 and shall consist of 6.625 inch OD SDR 21 PVC pipe.”

b. Paragraph 3.B with:

“The Contractor shall obtain the data and samples described below.

The Contractor shall take accurate material samples at 5 foot intervals and each pronounced change in formation to determine the nature and extent of the formation. The Engineer shall be furnished with two (2) copies each of the driller's logs. One sample from the sampling points, referred to above, properly tagged and identified shall be forwarded by the Contractor to Iowa Geological Survey (IIHR), Iowa City, Iowa. Further, one copy of well construction log, yield and drawdown test results, and water quality sample results shall be forwarded to DNR and also to Iowa Geological & Survey (IIHR).

c. Paragraph 3.C with:

C. Casing Installation, Plumbness and Alignment, Well Screen & Gravel Pack.

Furnish and install the required length of 6.625 inch OD PVC casing pipe to the finished casing elevation required for the well.

The well head shall be fitted with pitless unit, well cap, air vent, and appurtenances.

All sections of the casing shall be centered in the drill hole with suitable centering guides. During the installation of the casing, the weight of the entire assembly shall be supported from the drilling rig.

Plumbness and alignment shall be in accordance with AWWA A100, Section 1- 6, except that the clearance between the test pipe or dummy shall  $\leq \frac{1}{2}$  an inch than the inside diameter of that part of the casing or hole being tested.

Screens shall be constructed of PVC that is resistant to damage by chemical action of ground water and cleaning operations. The screen size openings shall be based on sieve analysis of formation and/or gravel pack material and shall have sufficient length and diameter to provide adequate specific capacity and low aperture velocity (less than 0.1 feet per second). The screen will be placed at a level where the screen stays submerged under all well operating conditions.

Gravel pack shall be well rounded particles, 95 percent siliceous material, that are smooth and uniform, free of foreign material, properly sized, washed and then disinfected immediately prior to placement. Gravel pack shall be placed in one uniform continuous operation.

A minimum of 3' bentonite plug shall be placed above the screen for stopping any grout leaks into the screen area.

5. Under Section 26100 page 4,
  - a. Paragraph 3. E, line 5  
Replace “15 gallon per minute” rate with “100 gallons per minute” while developing the well.
  - b. Paragraph 4.C, line 2  
Replace “required discharge up to 50 gallons per minute...” with “required discharge up to 100 gallons per minute...”
6. Under Section 26100 page 7, Paragraph 8, line 4:  
  
Replace the first sentence “The tip of pitless unit must terminate at least 18 inches above the final ground elevation.” With “The top of the casing that forms the pitless unit must terminate no less than 18 inches above the finished grade”.
7. Well Water Pollution Prevention Plan -Attachment I to 26100 and associated plan sheet, will become part of the project’s specifications.
8. Under Section 02660 page 7, replace Water Distribution System, paragraph 2.16 F –with:  
  
“The pump shall be Stenner 45 MPH2 with #7 tubing, or approved equal.”

## DRAWINGS

9. Sheet B.01
  - a. Change the label on the secondary chlorine injection pump to “Stenner Chlorine Injection Pump 45MPH2 with #7 tubing, the pump will be controlled by a Stenner PCMI.
  - b. Add a shut off valve on the incoming watermain, once it enters into the treatment building.
  - c. The sample taps shown on the sheet will be smooth-nosed sample taps.
10. Replace Sheets C.01 & D.03 will be replaced by the attached updated sheets.

Time and Date of Letting 11:00 AM, April 21, 2016

**PROPOSAL**

Project No. 13-01-67-02

Project Description and Location

**WATER TREATMENT SYSTEM REPLACEMENT  
LEWIS & CLARK STATE PARK  
MONONA COUNTY, IOWA**

Proposal of: \_\_\_\_\_  
(Name of Bidder)

Located at: \_\_\_\_\_ ( ) \_\_\_\_\_  
(Address) (Area) (Telephone)

Amount of Proposal Guarantee	Specified completion date or Number of Working Days	Approx. or Specified Starting Date or Number of Working Days	Liquidated Damages Per Day
\$10,000	September 15, 2016	N/A	\$300

The undersigned hereby agrees, if awarded the contract, to execute the proposed contract and to furnish an approved performance bond in a amount not less than 100 percent of the contract award within 30 days after the date of approval of award of the contract, and to provide all labor, materials, and equipment required to complete the project designated above, for the price hereinafter set forth, in strict compliance with the contract documents prepared by the Iowa Department of Natural Resources.

The undersigned agrees, if awarded the contract, to commence the work within a reasonable time after the preconstruction conference or by the specific starting date, if so specified, and to complete the work within the contract period, or to pay liquidated damages in the amount stipulated herein for each calendar day the work remains uncompleted after the expiration of the contract period or any authorized reduction thereof.

A proposal guarantee in the amount stipulated herein is included with this proposal, to be forfeited to the Iowa Department of Natural Resources if the undersigned fails to execute the contract and furnish an approved performance bond, if awarded the contract.

By virtue of statutory authority, preference will be given to products and provisions grown and coal produced within the state of Iowa, and also, a resident bidder shall be allowed a preference against a nonresident bidder from a state or foreign country which gives or requires a preference to bidders from that state or foreign country on projects in which there are no federal funds involved.

BY

\_\_\_\_\_  
(Iowa Contractor Registration No.)

\_\_\_\_\_  
(Signed) \_\_\_\_\_  
(Date)

\_\_\_\_\_  
(FID/EIN/SSN)

\_\_\_\_\_  
(Phone Number) \_\_\_\_\_  
(Fax Number)

\_\_\_\_\_  
(Email Address)

**THE FOLLOWING AFFIDAVIT MUST BE COMPLETED AND NOTORIZED, OR THIS BID WILL BE REJECTED.  
- AFFIDAVIT-**

The signatory, being duly sworn, does depose and say that the undersigned is an authorized representative of:

\_\_\_\_\_  
(Name of Firm)

Located at: \_\_\_\_\_

Hereinafter referred to as "Bidder" and does hereby affirm to have personal knowledge that said bidder has examined the drawings and specifications, carefully prepared the proposal form, and has checked the same in detail before submitting; and that said bidder, or the agents, officers, or employees thereof, have not either directly or indirectly, entered into any agreement, participated in any collusion or fraud, or otherwise taken any action in restraint of free competitive bidding in connection with this bid.

\_\_\_\_\_  
(Signed)

\_\_\_\_\_ Day of \_\_\_\_\_, 20 \_\_\_\_\_

\_\_\_\_\_  
(Signed Notary)

My Commission Expires \_\_\_\_\_, 20 \_\_\_\_\_

## SCHEDULE OF PRICES

Project Description and Location

**WATER TREATMENT SYSTEM REPLACEMENT, LEWIS & CLARK STATE PARK, MONONA COUNTY, IOWA**

Name of Bidder

**THE "UNIT PRICE" AND "AMOUNT" COLUMNS MUST BE FILLED IN FOR THIS PROPOSAL TO BE CONSIDERED COMPLETE. IF THERE IS A DISCREPANCY BETWEEN UNIT BID PRICES, EXTENSIONS, OR TOTAL AMOUNTS OF BID, THE UNIT PRICES SHALL GOVERN.**

Item No.	Description	Estimated Quantity	Unit Price	Amount
1	MOBILIZATION	1 LS		
2	CLEARING & GRUBBING	1 LS		
3	38' X 22' WATER TREATMENT BUILDING COMPLETE WITH GRADING	1 LS		
4	158 GALLONS WX-451 AMTROL PRESSURE TANK	2 EACH		
5	STORAGE BUILDING MANIFOLD: WATER METER, VALVES, PRESSURE SWITCH, PRESSURE GAUGE, SCH. 80 PVC PIING ETC.	1 LS		
6	CHLORINE FEED SYSTEM WITH ONE PUMP, 20 GALLON TANK AND SPILL PALLET COMPLETE	1 LS		
7	TRIPLEX MULTI-MEDIA IRON FILTER SYSTEM COMPLETE WITH CHLORINE INJECTION PUMP, COMPLETE	1 LS		
8	DUPLEX AUTOMAIC SOFTENER SYSTEM WITH BRINE TANK COMPLETE	1 LS		
9	ELECTRICAL SERVICE AND PUMP CONTROLS COMPLETE WITH LIGHTING , HEATER AND 200 AMP CONTROL PANEL AND OTHER ACCESSORIES SHOWN IN PLANS	1 LS		
10	NEW ELECTRICAL SERVICE TO THE BULDING FROM 70 FT. WITH DISCONNECT.	1 LS		
11	SUMP AND SUBMERSIBLE PUMP INSIDE BUILDING, COMPLETE	1 LS		
12	3" DIA. HDPE (DR 11) WATERMAIN, BORED OR TRENCHED IN PLACE TO SETTLING BASIN	150 LF		
13	SETTLING BASIN	1 LS		
14	3" DIA. HDPE DR 11 WATERMAIN TRANCHED OR BORED IN PLACE	200 LF		
15	TRACER WIRE #12 OR 3" DETACTABLE "WATER " TAPE	350 LF		
16	SYSTEM DISINFECTION	1 LS		
	<b>NEW 6" WATER SUPPLY WELL</b>			
17	DRILL 12" HOLE, FURNISH 6" PVC SDR 21 WELL CASING PIPE AND PCC GROUT	80 LF		
18	6" DIA X 20' OF PVC SLOTTED WELL SCREEN WITH GRAVEL PACK IN 12" HOLE	20 LF		
19	2"X 60' SCH 120 PVC DROP PIPE	80 LF		

20	5 HP 3PH SUBMERSIBLE VARIABLE SPEED PUMP RATED TO PROVIDE 65 GPM AT 70 PSI AT SURFACE. INCLUDING 3PH WIRING TO THE VFD TO TREATMENT BUILDING	1 LS		
21	PITLESS ADAPTER UNIT	1 EA		
22	STATIC WATER PRESSURE LINE AND GUAGE	1 LS		
23	INSTALL WELL BELOW-OFF ASSEMBLY & PVC CL 160 WATER LINE FROM WELL TO BUILDING	1 LS		
24	DEVELOP WELL AND TEST PLUMBING	1 LS		
25	DISINFECTION AND CHEMICAL ANALYSIS	1 LS		
26	GRADE AREA AROUND WELL HEAD AS SHOWN AND SEED	1 LS		
27	DRILL 12" HOLE AND 6" PVC SDR 21 WELL CASING AND GROUT FOR ADDITONAL DEPTH	1 LF		
	<b>ABONDON AND PLUG EXISTING WELL &amp; DEMOLITION</b>			
28	REMOVE PUMP & PLUG EXISTING WELL	1 LS		
29	DEMOLISH APPROX. 28'X28' EXISTING TREATMENT BUILDING INCLUDING ASBESTOS ABATEMENT. REMOVE PRESSURE TANKS, MIXING TANKS, INTERNAL PIPING ETC. HAUL AND DISPOSE OFF SITE	1 LS		
30	DEMOLISH 28'X24'X6' DEEP CONCRETE STORAGE TANK AND 145' LONG ADJUCENT FENCING, HAUL AND DISPOSE OFF SITE	1 LS		
31	SEED ALL DISTURBED AREAS	1 LS		
32	INSTALL A NEW 6' HIGH COMMERCIAL GRADE CHAIN LINK FENCE	155 LF		
		<b>TOTAL</b>		

Bidder Acknowledges Receipt of Any Issued Addenda Below (Number and Date)

## **ATTACHMENT I TO 26100**

### **WELL WATER POLLUTION PREVENTION PLAN FOR CONSTRUCTION ACTIVITIES AND WELL SERVICE DISCHARGES NEW WELL AT LEWIS & CLARK STATE PARK MONONA COUNTY, IOWA**

PERMITTEES SHALL NOTIFY THE DEPARTMENT NO GREATER THAN FIVE (5) CALENDER DAYS PRIOR TO AND NO GREATER THAN 24 HOURS AFTR COMMENCING WELL CONSTRUCTION AND/OR WELL SERVICE ACTIVITIES ON A SITE. FAILURE TO NOTIFY THE DEPARTMENT IS A VIOLATION OF GENERAL PERMIT NO. 6 SHALL BE COMPOSED ENTIRELY OF WELL CONSTRUCTION AND WELL SERVICE DISCHARGE.

The Well Water Pollution Prevention Plan (WWPPP) shall be kept on the construction site at all times from the date construction activities begin to the date of final stabilization. All contractors working onsite must sign the certification statement provided and will become co-permittees on the NPDES General Permit No. 6 for this site. All contractors working onsite shall be supplied a copy of the WWPPP and must be familiar with its contents. The permittees shall amend the Plan whenever there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants to a Water of the United States and which has not been addressed in this Plan, or if the Plan proves to be ineffective in significantly minimizing pollutants from well construction and well service activity, or in otherwise achieving the general objectives of controlling pollutants in discharge associated with well construction and well service activity. Updated versions of the WWPPP will be provided to all of the operators and contractors affected by any changes made to WWPPP. Permittees shall take all reasonable steps to minimize any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

The department retains the right to request and review the Plan before or during the well construction and well service for a period of six months after permit authorization.

This WWPPP is designed using good engineering practices, and is intended to be used in conjunction with the attached plan sheet.

Project Name: Water Treatment System Replacement at Lewis & Clark State Park

Project Location: The proposed site is located in Section 35 Township 84N, Range 46W. In Monona County, IA. Latitude and Longitude coordinates are approximately 42 02 29.22 N and 96 09 55.01 W respectively.

Owner: Iowa DNR

By \_\_\_\_\_

Title \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone \_\_\_\_\_

Date \_\_\_\_\_

Signature \_\_\_\_\_

**SITE DESCRIPTION:**

Description of Existing Site: The site is a grass land with mostly shrubs and grass.

Description of Project:	The project includes construction of a ±100' deep 6" well.
Name of Receiving Waters:	The site discharges in sandy soils within Missouri River Watershed.
Total Area of Site:	The construction limits consist of less than half an acre.
Disturbed Area:	Estimated disturbed area for construction activity is less than half an acre.
Well depth and volume of excavated material:	Proposed well is 100 feet deep with construction drilling of a 12" hole; Total Volume =80 CF.
Anticipated well production:	65 gpm. A required test pump rate of 100 gpm.
Anticipated contaminants resulting from construction:	Bentonite, polymers, foaming agents, soil, sand and rock particles.
Construction Activity:	Construction of a water well approximately 100' deep. Settling pits will be constructed to contain material removed during well construction. Filter socks will catch any remaining solids prior to discharge. The area will be regraded after completion of construction activity.

#### ANTICIPATED SEQUENCE OF CONSTRUCTION ACTIVITIES;

Construction of the will be expected to proceed in the following order:

1. Install temporary construction exits/entrances and designate staging area.
2. Install perimeter controls such as filter socks.
3. Excavate sediment basins.
4. Construct well; contain all pollutants within basin or with BMPs.
5. Clean out settling basin and dispose of waste material at approved location.
6. Use the basin for temporary detention structure for test pumping discharge.
7. Test water quality of aquifer. If water quality is acceptable, proceed with production well.
8. Construct production well; contain all pollutants within sedimentation basin or BMPs.

9. Develop well and test pump according to specification.
10. Upon completion of construction of well, fill in settling basins, grade around well and access road.

#### TEMPORARY STRUCTURAL PRACTICES.

1. Filter Sock: Filter Sock shall be installed at the down slope perimeter prior to when clearing and grubbing of that particular area occurs. The Sock shall be installed along the toe of slopes, and across any discharge swales.
2. Temporary Sediment Basin: A sediment basin is a pond with a controlled water release structure. Sediment basin will detain water for an extended period of time, allowing sediment to settle out of the water as it is released slowly from the basin. Sediment basin shall be constructed to provide a volume that will contain the materials produced during well drilling operations.
3. Temporary Detention Structure: A temporary detention structure is a tank or basin that is used to detain water for an extended period of time to allow sediment to settle out of the water as it is released from the structure. Temporary detention structures shall be sized to provide 2 hours of detention for maximum anticipated discharge rates during well development and test pumping.

#### INSPECTION AND MAINTENANCE PROCEDURES

The co-permittees are required to maintain all BMPs in proper working order, including cleaning, repairing, or relocating them throughout the project, until final stabilization. The General Contractor shall be responsible for Plan adherence, inspection and maintenance. All control measures will be inspected by IDNR field engineer before initiating construction.

#### CONTRACTORS/CO-PERMITTEES

All contractors and subcontractors identified in the Plan must sign a copy of the certification statement below. All signatures and certifications must be included in the WWPPP.

“I certify under penalty of law that I understand the terms and conditions of National Pollutant Discharge Elimination System (NPDES) general permit that authorizes well construction and well service discharges from the construction or well services site. Further, by my signature, I understand that I am becoming a co-permittee, along with the owner(s) and other contractors and subcontractors signing such certifications. As a

co-permittee, I understand that I , and my company, are legally required under the Clean Water Act and the Code of Iowa, to ensure compliance with the terms and conditions of the Well Water Pollution Prevention Plan developed under this NPDES permit and other terms and conditions of this NPDES permit.”

**CO-PERMITTEES**

Co-Permittees’ shall identify the BMPs they will manage and provide the Owner or General Contractor with the dates that the BMPs were implemented or modified, and any other critical dates that the Owner or General Contractor may deem necessary.

Description	Contractor	Date Completed
Implementation of down slope erosion control measures		
Install temporary detention structure for will discharge along with discharge conduit		
Site grading		
Seeding		
Removal of site grading		

“I certify under penalty of law that I understand the terms and conditions of National Pollutant Discharge Elimination System (NPDES) general permit #6 that authorizes well construction and well service discharges from the construction or well service site. Further, by my signature, I understand that I am becoming a co-permittee, along with the owner(s) and other contractors and subcontractors signing such certifications. As a co-permittee, I understand that I, and my company , are legally required under the Clean Water Act and the Code of Iowa, to ensure compliance with the terms and conditions of the Well Water Pollution Prevention Plan developed under this NPDES permit and other terms and conditions of this NPDES permit.”

By \_\_\_\_\_

Title \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone \_\_\_\_\_

Date \_\_\_\_\_

Signature \_\_\_\_\_





