

FUTURE USE PERMIT NO. 6869-3

Name of Applicant: **Lewis & Clark RWS**

Address: **401 E 8th St, Sioux Falls SD 57103**

Phone: **605 336-8688**

Amount of Water Claimed: **8700 AF**

Total Acres: **NA**

Source of Water Supply: **Groundwater**

Water to be used for: County: **Clay**

Type of Waste Disposal System:

Location: **2 miles southwest of Vermillion near Missouri River**

PRIORITY

Date Received: **7-16-07**

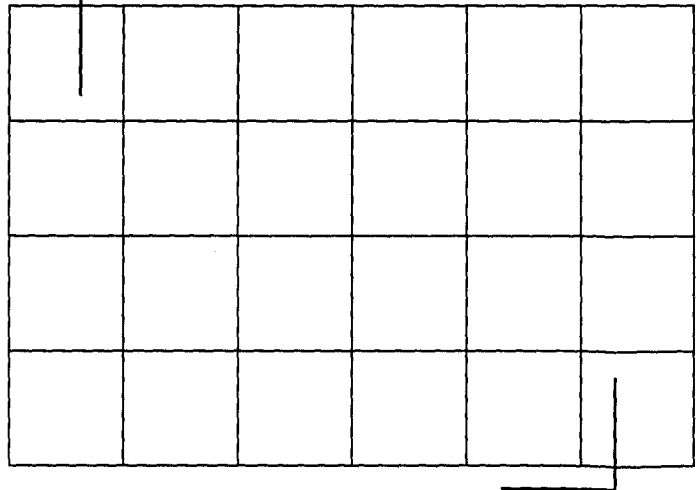
Application/License Fee: **\$200**

Corrected Application Received:

Period of Annual Use:

Remarks: **Future use request**

Diversion Point: **S ½ Sec 16, S ½ Sec 17, S ½ Sec 22, W ½ Sec 26, N ½ Sec 27; all in 92N-R52W**



Land to be Irrigated: **NA**

Depth of Well: **Missouri Elk Point Aquifer**

Well Driller:

Remarks:

Type of Map: **topo**

Prepared by: **David G Odens, PE**

Reviewed and the Number Assigned on: **7-16-07**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

SD EForm - 1585 V1
FORM 2: Application for uses other than irrigation
(type or print)

RECEIVED
JUL 16 2007
WATER RIGHTS
PROGRAM

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6869-3</u> (office use only) Hydrologic Unit <u>10170101</u>
	Basin <u>Missouri River</u>
	Newspaper <u>See list</u>

Application For Permit To Appropriate Water Within The State Of South Dakota

Check use(s) of water:

- | | | | |
|--|---|--|--|
| ☒ Municipal | ☐ Suburban Housing | ☐ Recreational | ☐ Institutional |
| ☒ Rural Water System | ☐ Commercial | ☐ Fish & Wildlife | ☐ Geothermal Heat |
| ☐ Domestic (over 18 gpm) | ☐ Industrial | ☐ Other | |

Type of Application:
(check one)

- ☐ New ☐ Vested Right (Use predates Mar 2, 1955) ☐ Future Use Reservation
☒ Place to Beneficial Use Water Reserved by Future Use Permit No. 5832-3
☐ Amendment/Correction to Permit No. _____

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.) _____

- Name of Applicant Lewis and Clark Rural Water System Phone (605) 336-8688
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address 401 East 8th St., Suite 306, Sioux Falls State SD 57103
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 12,500 *CFS or **GPM ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (***Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply Missouri Elk Point Aquifer
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Clay
Six wells in Section 22, T32N, R4E, Nebraska survey. Wells will be located west of SD Hwy 19 south of Vermillion in Mulberry Point.
- County or counties where water will be used SD - Turner, Lincoln, Minnehaha, Union, Lake, (see 7)
- Annual period during which water is to be used Year round use as municipal water supply
- Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)
Water will be used as water supply for the Lewis and Clark rural Water System serving 20 public water systems in South Dakota, Iowa, and Minnesota. Iowa counties served include Lyon, Sioux, O'Brien, and Osceola. Minnesota counties served include Rock and Nobles. Well system design memorandum is attached.

STATE OF SOUTH DAKOTA)

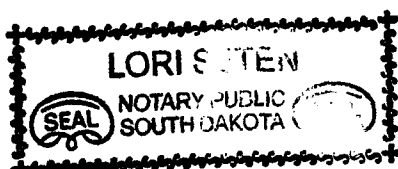
County of Clay Minnehaha SS

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Attach map and any other technical information. (see instructions)

I, Troy Larson, the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

Applicant's signature Troy Larson

Subscribed and sworn to before me this 13th day of July 20 07



Lori Seten
Notary Public signature
Expires: Feb. 6, 2011

SOUTH DAKOTA
FUTURE USE PERMIT NO. 6869-3

Date of first receipt of application July 16, 2007.

The Chief Engineer, on behalf of the Water Management Board, issues Future Use Permit No. 6869-3 to Lewis and Clark Rural Water System, 401 E 8th St, Suite 306, Sioux Falls SD 57103 subject to the following limitations, conditions and qualifications:

1. Future Use Permit No. 6869-3 reserves 8,700 acre-feet annually from the Missouri:Elk Point Aquifer. The area to be reserved for future water use is located in Gov. Lots 1, 2, 3, and 4 of Section 16, Gov. Lots 1, 2, 3, and 4 of Section 17, Gov. Lots 3, 4 and the SE1/4 Section 22, Gov. Lots 1, 2 and the W1/2 of Section 26, and the N1/2 of Section 27, including accretion lands thereto, all in T92N, R52W of the 5th P.M., Clay County.
2. The water appropriated shall be used for the purpose of providing future water supplies for the Lewis and Clark Rural Water System which supplies 20 public water systems in Turner, Lincoln, Minnehaha, Union, Lake, Clay and McCook counties in South Dakota; as well as Rock and Nobels counties in Minnesota; and Lyons, Sioux, Osceola and O'Brien counties in Iowa and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 6869-3 is October 29, 2007.
5. The date from which applicant may claim right is July 16, 2007.
6. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. Permit No. 6869-3 reserves 8700 acre feet of water annually from the Missouri:Elk Point Aquifer.
2. That Future Use Permit No. 6869-3 is approved with the stipulation that this Permit is subject to review by the Water Management Board in developing reserved water upon expiration of seven (7) years. This Permit shall be subject to cancellation if the Water Management Board determines during the review that the holder cannot demonstrate a reasonable need for the Permit.
3. At such time as definite plans are made to construct works and put the water reserved by this permit to beneficial use, specific application for all or any part of the reserved water must be submitted and approved prior to construction of facilities pursuant to SDCL 46-5-38.1.

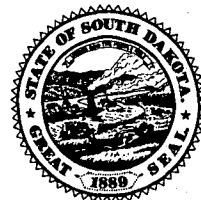
WATER MANAGEMENT BOARD

By: Garland Erbele

Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

MAY 07 2008

date



To: Lewis and Clark Rural Water System Board	
From: Dan Graber	Project: LCRWS
CC:	
Date: July 6, 2006	Job No:

RE: LCRWS – Current and Future Water Rights

The objective of this memorandum is to address the current activity in regards to obtaining future water rights. In 1994, the Water Management Board approved 27,000 acre-feet (24.1 MGD) of water to be claimed as future use from wells in the Mulberry Point area. This appears to have been based on the original intended capacity of the LCRWS. The 27,000 acre-feet matches the original 23.5 MGD system. Since that time, there have been increases to the original intended system. The 2001 Facility Engineering Report (FER) increased the system to 27.2 MGD followed by the Sioux Falls request in 2005 to increase the system capacity to 45 MGD.

It is noted that the water rights are for an annual allocation of water for the user. The allocation does not specifically address the rate used. Therefore the peak capacity of the system may be greater than the allocated water right because of seasonal and daily fluctuations in demand.

A total of 20,164 acre-feet (18.0 MGD) of the 27,000 acre-feet (24.1 MGD) have been claimed in 2006 for the construction and operation of well sites C and D. The existing future permit has 6,836 acre-feet (6.1 MGD) of remaining water for further well construction. Table 1 presents a summary of these requests.

Table 1. LCRWS - Current and Future Water Rights

	Acre-feet	MGD
Future Water Rights⁽¹⁾	27,000	24.1
Water Rights For Well C & D⁽²⁾	20,164	18.0
Remaining Future Rights	6,836	6.1

(1) Attached is Future Water Permit No. 5832-3.

(2) Attached is Water Right Permit Application for well site C and well site D

The request for additional water rights is somewhat subjective due to the uncertainty in demands from the system. Table 2 provides the requirements for the 45 MGD WTP and a possible future 60 MGD WTP. This table indicates the additional future water rights required over the initial 27,000 acre-feet would be approximately 40,000 acre-feet for a full capacity of the 60 MGD WTP.

The actual annual water usage should be considered in the application for the future water rights. In Technical Memorandum – 19 prepared by Banner Associates and HDR Engineering, the estimated average daily demand for the LCRWS is 28,000 acre-feet (24.4 MGD). TM – 19 was also used for the Water Treatment Plant sizing. This demand is slightly greater than the authorized use of 27,000 acre-feet (24.1 MGD).

Table 2. WTP Capacity Requirements

	Acre-feet	MGD
Water Rights for 45 MGD WTP	50,410	45.0
Additional Water Rights for 45 MGD WTP	23,410	20.9
Water Rights for 60 MGD WTP	67,213	60.0
Additional Water Rights for 60 MGD WTP	40,213	35.9

The original Future Water Permit for the 27,000 acre-feet (24.1 MGD) was specifically for the wells located in the Mulberry Point area. The FER stated that additional future water rights would be required for Well Sites J, U, and W which are not included in the original Mulberry Point request. The Well Field Development Pre-design Technical Memorandum lists the potential of these well sites at 2.6 MGD for each site for a total of 7.8 MGD. This equates approximately 8,700 acre-feet which is in the range recommended in the FER.

An additional 8,700 acre-feet would increase the total future and requested water rights to 35,700 acre-feet (31.2 MGD). From the current and projection information available to the engineering team, the 35,700 acre-feet will provide adequate water rights for annual production of the 45 MGD treatment system. SDCL 46-5-20.1 requires the Water Management Board to submit all water right permit applications which are in excess of 10,000 acre feet annually for legislature approval. The request for an additional 8,700 acre-feet falls under this trigger of legislative approval.

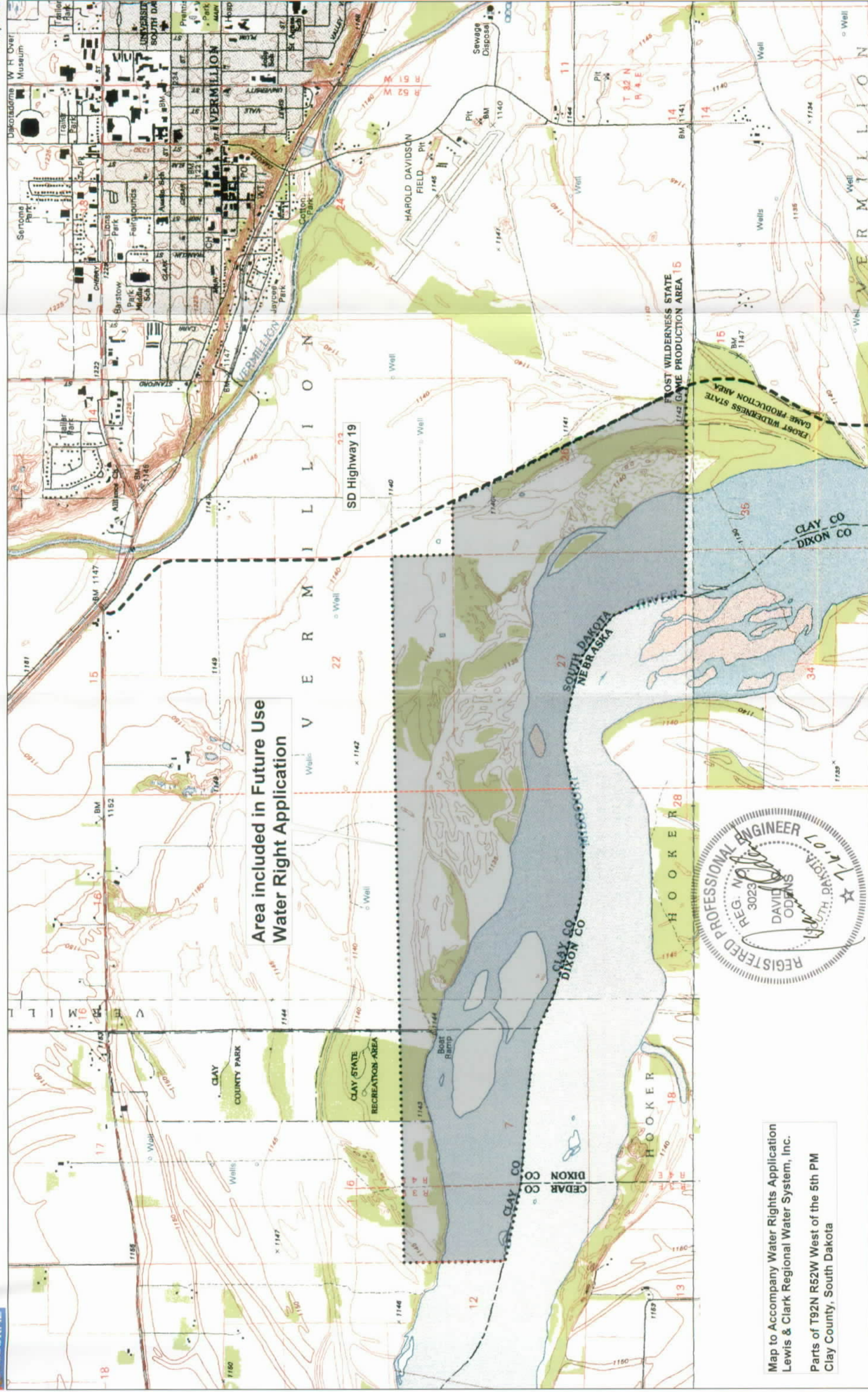
Summary

The current future water rights appropriation is more than adequate for the startup of the LCRWS. The current future water rights appropriation may not be adequate for the average day production of system once all the members are connected and the system is fully operational.

The LCRWS currently has future water rights secured for the Mulberry Point area. The sites J, U, and W have not been specifically included in the current future water rights and will be required once additional capacity is required. It is recommended the LCRWS construction committee review this issue and provide input to the process. Consideration should be given to obtaining an additional 8,700 acre-feet of which matches the anticipated capacity from well sites J, U, and W.

Table 3. Water Rights Summary Table

	Acre-feet	MGD
Future Water Rights⁽¹⁾	27,000	24.1
Water Rights For Well C & D⁽²⁾	20,164	18.0
Remaining Future Rights	6,836	6.1
Additional Water Rights; J, U, & W	8,700	7.8
Total Well Field Water Rights	35,700	31.9



**Map to Accompany Water Rights Application
Lewis & Clark Regional Water System, Inc.**

Parts of T92N R52W West of the 5th PM
Clay County, South Dakota

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 7/16, 2007

RECEIVED OF Lewis & Clark Rural Water 401 E 8th St # 306 Sioux Falls SD 57103

The following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	250	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____	250	00
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	

No.

03 96

By

Chief Engineer

TECHNICAL MEMORANDUM

**LEWIS AND CLARK RURAL WATER SYSTEM
(LCRWS)**

WELL FIELD DEVELOPMENT PRE-DESIGN

February 28, 2006



ONE COMPANY | *Many Solutions™*

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LIST OF ABBREVIATIONS

AWWA – American Water Works Association
bgs – below ground surface
BHP – brake horsepower
CAI – Chatman and Associates, Inc.
COE – Corps of Engineers
DIP – ductile iron pipe
EA – Environmental Assessment
FEMA – Federal Emergency Management Agency
FER – Final Engineering Report
IERT – Interagency Environmental Review Team
IN – inches
kw – kilowatts
LCRWS – Lewis and Clark Rural Water System
LGS – Layne GeoSciences
MGD – million gallons per day
NEMA – National Electrical Manufacturers Association
psi – pounds per square inch
PVC – polyvinylchloride
ROW – right of way
SCADA – Supervising Control and Data Acquisition
SD DENR – South Dakota Department of Environment and Natural Resources
SPD – surge protection device
TRC – TRC Mariah Associates, Inc.
TM – Technical Memorandum
USFWS – United States Fish and Wildlife Services
WF – Well Field

**DRAFT Technical Memorandum
Lewis and Clark Rural Water System (LCRWS)
Well Field Development Pre-Design**

1.0 INTRODUCTION

1.1 Background

The Final Engineering Report (FER) dated May 2002 for the Lewis and Clark Rural Water System (LCRWS) and subsequent safe yield analysis identified the approximate well locations, types, and capacities as source water for the water treatment plant. The well field is along the Missouri River in an area referred to as Mulberry Point (Sites A, B, C, D and E) and Sites J, U, and W to the west of Mulberry Point. These well locations are shown on Figure 1.1-1.

A summary of the work conducted at the well sites to date is summarized in Figure 1.1-1 and below:

- ◆ All sites – test holes
- ◆ Site B – 12 IN vertical test well completed in 2001 and test pumped
- ◆ Site D – 18 IN angle production well completed in 2003 and test pumped
- ◆ Site J – 12 IN vertical test well completed in 2005 and test pumped

1.2 Purpose

The purpose of this Technical Memorandum (TM) is to evaluate the development of wells and facilities at Sites A, B, C, D, E, J, U and W for three well-type options; radial collector wells, vertical wells and angle wells.

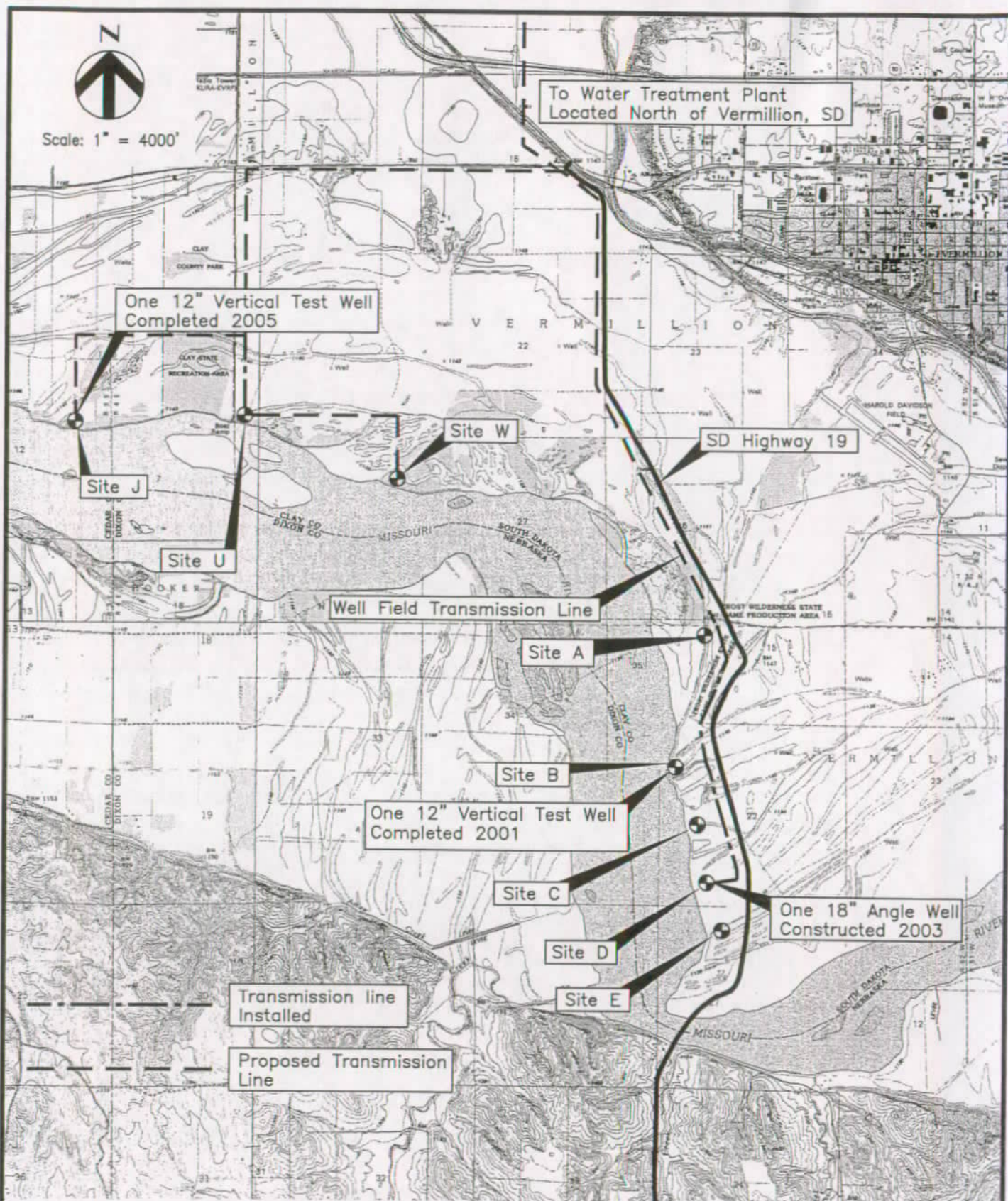
The evaluation includes estimated costs, discussion of important issues, and selection of a development plan including construction priority that will ultimately result in a well field with a firm capacity of 49 MGD.

2.0 WELL FIELD EVALUATION (Sites A, B, C, D, E, J, U and W)

2.1 Well Field Production Requirements and Schedule

The production requirements and schedule for the well field development will depend on many factors such as availability of funding for the water treatment plant and future demand requirements for major users such as the City of Sioux Falls.

LCRWS is under contract to deliver 10 MGD to Sioux Falls, SD by January 2012. If the treatment plant is not built, 10 MGD of raw water could still be delivered to Sioux Falls through the series of booster stations intended for use on the potable water delivery system.



Source: United States Geological Survey; Meckling, S. Dak.-Nebr., 1994, Maskell, Nebr.-S. Dak., 1994, Vermillion, S. Dak.-Nebr., 1994, Obert, Nebr., 1968 Quadrangles

Banner Associates, Inc.
HDR Engineering, Inc.
TRC Mariah Associates, Inc.

PRE-DESIGN REPORT
LEWIS AND CLARK RURAL
WATER SYSTEM

FIGURE 1.1-1
Wellfield Site Location
and
Development History

Provided funding becomes available for the water treatment plant and it is constructed, the goal would be to develop the well field to a firm capacity of 28 MGD by January 2012.

After January 2012, the well field will be expanded incrementally as demand from the users requires to an ultimate firm demand of 49 MGD.

Table 2.1-1 summarizes the firm production requirements and estimated schedule for the well field development.

**Table 2.1-1
Well Field Schedule for Production Requirements**

Date	Well Field Production Requirements
	Firm, MGD
January 2012	10, with a goal of 28
Ultimate	49

2.2 Well Type Options and Opinions of Costs

2.2.1 Well Types

Three main well types are considered. They are radial collector wells, vertical wells, and angle wells.

2.2.1.1 Radial Collector Wells

Horizontal radial collector wells are comprised of a large diameter reinforced concrete caisson that serves as a wet well/pumping station. The collector is equipped with a series of well screens that are projected horizontally in a radial pattern into the aquifer from near the bottom of the caisson. The caisson is constructed to the desired depth using the open-end caisson sinking method and a bottom-sealing plug is poured to make the caisson watertight. The radial collectors can be installed at one or more elevations and may be placed in a variety of patterns and lengths depending upon aquifer characteristics and project requirements. The caisson is extended above known or anticipated flood elevations and the well is typically completed with a pump house and controls mounted above the caisson.

The radial collector type of well was evaluated for the LCRWS for several reasons. The most important reason was to maximize well yields, exceeding the yield of several vertical wells, because of the large effective well screen area radius. Potential yield from the radial collector well can be further enhanced due to induced infiltration of surface water.

Also, because the lengths of the lateral well screens are not restricted by aquifer thickness, increased well screen area results in a highly efficient well with low entrance velocities and reduced maintenance. Collector well construction is illustrated in Figure 4.2-3 of the FER.

Radial collector wells will use vertical turbine pumps. Each collector well will have three pumps, two duty and one standby with the head and motor mounted above the caisson and pump column suspended into the wet well

2.2.1.2 Vertical Wells

Vertical and angle wells will be evaluated as alternatives to the collector well design. Vertical wells are least expensive to construct of the three options. However, since their production capacity is less, more vertical wells would be required as compared to the other types.

Vertical wells could be constructed to gain maximum benefit of both groundwater and surface water from the river. Vertical wells could be constructed away from the river, while angle wells and radial collector wells would be constructed close to the riverbed to maximize production.

Locating vertical wells further away from the river (1,000 feet) may result in a well that initially removes more water from aquifer storage than a well located adjacent to the river. However, once the well field reaches steady state conditions, which could take several months, it is likely that the same (or similar) percentage of river water will be obtained by a well that is located a few hundred feet further away from the river as a well that located adjacent to the river. A preliminary evaluation of the impact of the well field on other water users was presented as part of the Safe Yield Analysis (CAI, April 2005). A groundwater flow model was developed as part of the Safe Yield Analysis in order to estimate the total drawdown induced in the aquifer as a result of operating the well field. The simulations performed using the groundwater model included a 50 mgd steady-state scenario, using a well field pumping configuration similar to Option 1 (See Table 2.8-1). The results of this simulation are shown on Figure 5 of the Safe Yield Analysis (CAI, 2005) and indicate that the 1-foot drawdown contour will extend out a distance of approximately two miles from the Mulberry Point pumping center of the well field. It is highly unlikely that relocating several vertical wells closer to the river will have a significant impact of the total drawdown induced by a fully operating well field.

Locating vertical wells further away from the river may not necessarily result in a change in water quality from those wells near the river. A total of three pumping tests were performed in the well field: Sites B, D and J. The groundwater at Sites B and D had hardness of 275 to 375 mg/l, while the hardness at J was considerably higher, about 850 to 900 mg/l.

Each of the three pumping wells were located within 300 feet of the river. Since the wells are located at similar distances from the river, it appears the distance from the river may not be the parameter governing the relative water quality at the sites. However, this conclusion will have to be verified by additional water quality testing conducted on the wells located farther from the river.

Vertical well construction is illustrated in Figure 4.2-5 of the FER. Vertical wells will use vertical turbine pumps with the column pipe suspended in the well casing pipe. However, where well sites are visible from the river, consideration will be given to using submersible pumps and motors with pitless adapters.

2.2.1.3 Angle Wells

Angle wells are more expensive to construct than vertical wells, but cost less to construct than radial collector wells. However, the production capacity from angle wells should be higher than vertical wells, but less than radial collector wells.

Angle well construction is illustrated in Figure 4.2-6 of the FER. Angle wells use submersible pumps.

2.2.2 Opinion of Probable Well Costs

2.2.2.1 Introduction

Well construction costs are developed below for horizontal collector wells, angle wells, and vertical wells.

2.2.2.2 Radial Collector Wells

Typical costs for developing radial collector wells are provided below in Table 2.2-1 entitled "Estimated Collector Well Costs". The estimated well construction cost at each site is \$2,240,000.

Table 2.2-1
Estimated Radial Collector Well Construction Costs⁽¹⁾

Item	Estimated Cost
1. Collector Well Caisson and Laterals	\$2,040,000
2. Three Well Pumps and Motors	\$ 380,000
Estimated Well Construction Cost	\$2,420,000

Note:

- (1) Costs do not include contingencies, pump house building, site development, electrical, mechanical, HVAC, or instrumentation.

2.2.2.3 Vertical and Angle Wells Costs

Typical costs for developing vertical and angle wells are provided below in Table 2.2-2, entitled "Estimated Vertical and Angle Well Costs".

Table 2.2-2
Estimated Vertical and Angle Well Construction Costs

Item	Estimated Cost ⁽¹⁾	
	Vertical Well	Angle Well
1. Well, Casing and Screen	\$144,000	\$360,000
2. Pump and Motor	\$130,000	\$144,000
Estimated Well Construction Cost	\$274,000	\$504,000

Note:

(1) Costs do not include contingencies, pump house building, structures, site development, electrical, mechanical, HVAC, or instrumentation.

The angle well cost of \$360,000 is considerably higher than the cost used in the FER, Table 4.2-9. This higher cost is based on the actual cost of the angle well at Site D, which was about \$360,000 and recent estimates from water supply contractors.

The vertical well cost of \$144,000 is also higher than the FER. This higher cost is based on recent bid tabulations from similar type well construction.

2.3 Floodway/Flood Plain Issues

2.3.1 Floodway

The concept of establishing a floodway is used as a tool to assist local communities in flood plain management. The floodway is the channel of a stream plus any adjacent flood plain areas that must be kept free from development in order that the 100-year flood may be carried without substantial increases in flood water elevations.

There are no designated floodways in the well field areas based on the April 1, 1987 U.S. Department of Housing and Urban Development Flood Hazard Boundary Map. Also, there does not appear to be any local flood way designations in the well field area.

2.3.2 100-Year Flood Level

The 100-year flood has been adopted by FEMA as the base flood for purposes of flood plain management. Also, the 100-year flood level impacts the design of the upper well terminus.

The most recent Missouri River stage information is dated 2003 from the Corps of Engineers (COE). Table 2.3-1 summarizes the estimated 100-year flood levels and ground elevations at each well site.

Table 2.3-1
Estimated Missouri River Flood Level
Lewis and Clark Well Field

COE River Mile	Well Site	Ground Elevation	100 Year ^a
776			1130.4
	E	1138	1130.7 ^b
	D	1139	1130.9 ^b
777			1131.1
	C	1125 – 1139 ^c	1131.3 ^b
	B	1142	1131.5 ^b
778			1131.9
	A	1141	1132.2 ^b
779			1132.9
	W	1135	1134.1 ^b
780			1134.1
	U	1142	1135.2 ^b
781			1135.5
	J	1145	1136.6 ^b
782			1137.1

- a COE elevations adjusted to NAVD 88 (NGVD 29+0.20 FT)
- b Interpolated elevations between COE river miles.
- c Variation due to excavation for fill to construct Highway 19.

Based on the estimated flood levels, all sites (except Site C) are above the 100-year flood plain. The 100-year flood level will have to be accounted for when developing Site C.

2.4 Well Field Electrical Distribution and Standby Power Requirements

Clay-Union Electrical Cooperative will provide distribution power to the well field by a combination overhead and underground distribution. Existing overhead power lines follow State Highway 19 and can serve Sites A, B, C, D, and E. New overhead power lines will be needed to serve Sites J, U, and W. From the overhead, medium voltage primary service will be distributed to each well site through underground duct bank. The duct banks in most cases will require two (2) 4 IN PVC conduits extended to the transformer location.

Each well site will have a pad-mounted transformer located above the 100-year flood level and secondary metering and main service electrical equipment that will distribute power to each well. Secondary service will be distributed in underground conduit to the well pumps and structures.

The FER concluded that about 16 MGD of the well field should be equipped with standby power. Since the FER, the water plant capacity has increased by 50 percent. Therefore, 24 MGD of firm capacity of the well field will be equipped with standby power.

2.5 River Bank Erosion

The Missouri River at the project location is a dynamic system which has experienced channel degradation and bank erosion due to variations in river flow, ice jams, etc. Mechanisms for further erosion include continued channel degradation and subsequent lateral migration, which can result in the river channel outflanking the well field structures. The potential for well damage due to ice and debris also exists. Any design must consider these factors in the siting of the wells.

Parts of the riverbank were stabilized during construction of South Dakota Highway 19. The area stabilized is near Sites D and E. The stabilization method involved buried riprap installed in a trapezoidal section trench parallel to the river. The trench is positioned about 100 feet from the river bank. Sites A, B, C, J, U and W are not protected by the Highway 19 stabilization. Sites A, B and C will most likely need to be stabilized. Sites J, U and W are on the northern bank of the Missouri River upstream of the river bend. They may need stabilization also.

Missouri River bank stabilization measures may be subject to an environmental review. River bank stabilization will be addressed as each site is developed.

2.6 Wetlands

The National Wetlands Inventory was reviewed for inventoried wetlands. Figure 2.6-1 shows that inventoried wetlands will not be impacted by any of the well sites.

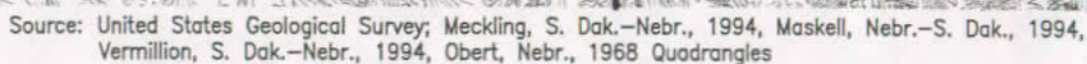


FIGURE 2.6-1
National Wetland Inventory

2.7 Project Planning to Avoid/Minimize or Mitigate Environmental Impacts

Project planning is a necessity to avoid, minimize, or mitigate construction and operation impacts on the environment. A draft Environmental Assessment (EA) prepared by TRC Mariah Associates, Inc. (TRC) in June 2002 identifies proposed project-wide mitigation/environmental protection measures on all impacted lands (public and private) to avoid or mitigate potential project impacts.

Well field construction activities will need to comply with all appropriate federal, state, and local regulations as outlined in Appendix B of the EA.

Environmental issues addressed in the EA are listed below:

- Wildlife habitat, wetlands, etc.
- Threatened and endangered species
- Other wildlife
- Vegetation, soils and watersheds
- Cultural and historical resources
- Hazardous materials
- Other (noise, visual, etc.)

Some of the restrictions placed on project activities due to the EA are briefly summarized later in this TM.

2.8 Site Development Alternatives and Costs

2.8.1 Well Site Development Alternatives

Table 2.8-1 summarizes three well site development alternatives for each site. This table is based on an earlier well field conceptual design developed by CAI in April 2005 and later refined in January 2006 by Terranext, LLC. The table incorporates three well types and estimates total and firm production capacity for each scenario. Each alternative provides a minimum firm capacity of at least 49 MGD.

In estimating well yields, the limitations of the available drilling methods for vertical, angle, and collector wells were considered. The presence of cobbles and boulders near the base of the aquifer at many of the sites complicates the installation of water supply wells.

Table 2.8-1
Well Field Development Alternatives and Estimated Well Yields

Well Field Site	Well Site Depth to Bedrock (ft bgs)	Well Type	Est. Well Yield	Option 1 – One Collector Well (Site B)		Option 2 – Three Collector Wells (B, E, and D)		Option 3 – One Collector Well (Site E)		Est. Well Spacing (feet)
				# of Wells	Rate (MGD)	# of Wells	Rate (MGD)	# of Wells	Rate (MGD)	
Site A	115	Angle	3.0			1	3	1	3	1,200
		Vertical	3.1	3	9.3	2	6.2	2	6.2	1,000
Site B	110	Collector	11.1	1	11.1	1	11.1			
		Vertical	3.6	1	3.6	1	3.6	3	10.8	1,200
Site C	95	Angle	3.3	2	6.6	2	6.6	1	3.3	1,100
		Vertical	2.4	1	2.4			2	4.8	1,000
Site D	95	Angle ⁽²⁾	3.1	2	6.2	1	3.1	3	9.3	1,100
		Vertical	2.6	1	2.6					1,000
		Collector	8.6			1	8.6			
Site E	78	Angle	2.2							900
		Vertical	1.8	2	3.6					850
		Collector	7.1			1	7.1	1	7.1	
Site J	104	Angle	1.7					1	1.7	800
		Vertical	1.3	2	2.6			1	1.3	700
Site U	99	Angle	1.7					1	1.7	800
		Vertical	1.3	2	2.6	2	2.6	1	1.3	700
Site W	94	Angle	1.7							800
		Vertical	1.3	2	2.6	2	2.6	2	2.6	700
WF Design Capacity				19	53.2	14	54.5	19	53.1	
Firm WF Capacity ⁽¹⁾					49.6		50.9		49.5	

Notes:

(1) Firm well capacity is well field design yield with the largest non-collector well out of service.

(2) One angle well constructed in 2003.

2.8.1.1 General Assumptions

The following is a list of general assumptions regarding the placement of the well screens for the various well types:

- Vertical wells can be installed in cobbles and boulders using standard reverse rotary drilling. Using this method, cobbles and boulders are typically not an issue and the total well depth will approximately equal the top of bedrock.

- Angle wells are installed using either DR-24, DR-24HD, or DR-40 Barber drilling rigs. The angle well installed at Site D was drilled using a DR-40, which is capable of generating more torque than the DR-24 or DR-24 HD models, making it more capable of drilling through cobbles and boulders. The Site D angle well was installed at a vertical depth of 95 feet and reaching bedrock as planned was reported to be difficult. Total length of the well was 230 feet and it was drilled at a 24° angle from the horizontal. Based on those observations, a maximum vertical depth of 95 feet was used for angle wells in the well yield calculations.
- The laterals for radial collector wells cannot typically be installed in cobbles or boulders. Therefore, for the estimates of well yields, it was assumed that the laterals would be installed above any continuous unit of cobbles or boulders.
- A site characterization to identify potential locations for radial collector wells was performed by Layne GeoSciences. A report summarizing the findings of the site characterization was prepared by LGS in June 2001. The conclusions of the report indicated that Sites B, C, and D were the most favorable for radial collector wells while Site J had moderate development potential for a radial collector well and Sites U, W, A and E were generally unfavorable for radial collector well development.

In January 2006, Terranext, LLC re-evaluated the LGS recommendations for radial collector well locations. They concluded that Sites B, C and D were still excellent locations from the standpoint of geology. However, Terranext concluded that installing and pumping three radial collector wells on consecutive sites (B, C and D) could cause interference drawdown at each well (additional drawdown) and significant loss of production in each well. Therefore, Site C was dropped for consideration as a radial collector well site.

Terranext, LLC concluded that Site E could make a better radial collector well site than originally thought. The main reason for this conclusion is the site has a significant length of river perimeter which the radial collector well design can take advantage of for good production even though the formation is not as deep as the other well sites.

2.8.1.2 Site-Specific Assumptions

The following sections describe the site specific assumptions used for each well site:

- **Site A**

Boring logs for Site A indicate that the aquifer interval from 75 to 115 feet bgs contains coarse gravel and boulders. Vertical well yield is expected to be slightly higher than for the angle well. Well yields were estimated at Site A assuming traditional well drilling techniques associated with vertical wells can penetrate the coarse gravel, cobbles, and boulders portion of the aquifer encountered below 95 feet and that, based on the angle well installation at Site D, angle well drilling techniques cannot. This 15 to 20 foot section of extremely coarse material, which has similar geology to Site A, is likely much more permeable than the overlying sand. A well screened across this portion of the formation (vertical) should yield more water than a well that is not (angle).

- **Site B**

Boring logs for Site B indicate that the aquifer interval from 85 to 110 feet bgs contains coarse gravel and boulders. Well yield estimates for Site B were developed assuming vertical wells would be able to fully penetrate the aquifer down to the bedrock. Estimates for angle wells assumed the total depth of the angle well would be approximately 95 feet for the same reasons as described in Site A. Collector well estimates were developed assuming laterals would be placed above the cobbles and boulders at a depth of approximately 85 feet (LGS, 2001).

- **Site C**

Boring logs for Site C do not indicate a coarse boulder or cobble unit near the base of the aquifer, as observed at Sites A and B. Therefore, well yields calculated for this site assume both vertical and angle wells will be able to fully penetrate the aquifer to bedrock.

- **Site D**

Boring logs for Site D indicate that coarse boulder or cobble occurs from 80 to 95 feet bgs. The well yields developed for this site assume that both vertical and angle wells will fully penetrate the aquifer. The angle well installed at Site D is evidence that an angle well can fully penetrate the aquifer at this site.

- **Site E**

Boring logs for Site E do not indicate that coarse boulder or cobble occur near the base of the aquifer. Therefore, well yields for both vertical and angle wells were calculated assuming the wells would fully penetrate the aquifer. Collector well yields were developed assuming the radials could be installed near the base of the aquifer, due to the absence of cobbles or boulders at this depth.

- **Sites J, U, and W**

Boring logs for Sites J, U, and W indicate that the aquifer materials at these sites are finer than the aquifer materials at Sites A through E. Coarse gravel was observed at Site J. Boulders and cobbles were not observed at Sites U or W. Therefore, well yields for both vertical and angle wells were calculated assuming the wells would fully penetrate the aquifer. Collector well yields were developed assuming the radials will be installed near the base of the aquifer, due to the absence of cobbles or boulders at this depth.

2.8.1.3 Changes by Terranext, LLC in the CAI April 2005 projected well yields

- The projected well yields estimated in Table 2.8-1 are similar to those developed by CAI in April 2005. However, several important changes in the estimated well yields from the conceptual design were utilized in this study, as described below:
 - Collector well yields – the collector well yields presented in the conceptual design were the lowest documented seasonal value presented in previous project documents. Site specific collector well yields for average conditions were utilized in this evaluation.
 - Angle well at Site B – estimates assume an angle well could not fully penetrate the cobbles and boulders observed at this site. Therefore, the saturated thickness used in developing the angle well estimates was lower than the saturated thickness value used previously by CAI.
 - Sites J, U, and W well estimates – estimates developed included an estimated transmissivity for Site J, which was also used for Sites U and W, from the pumping test conducted in the fall of 2005. Transmissivity values previously used for these sites were estimated values and were higher than the values estimated from the limited test data available.

2.8.2 Alternative Cost Comparisons

The estimated costs for developing the well field for the three alternatives are summarized in Table 2.8-2. Detailed cost estimates for each site are provided in Appendix “A”.

Table 2.8-2
Estimated Well Site Development Costs^a

Site	Option 1 (One Collector Well at Site B)	Option 2 (Three Collector Wells at Sites B, D & E)	Option 3 (One Collector Well at Site E)
A	3 vertical wells \$2,529,000	1 angle & 2 vertical wells \$2,630,000	1 angle & 2 vertical wells \$2,630,000
B	1 collector & 1 vertical well \$4,353,000	1 collector & 1 vertical well \$4,353,000	3 vertical wells \$2,676,000
C	2 angle & 1 vertical well \$2,627,000	2 angle wells \$2,251,000	1 angle & 2 vertical wells \$2,508,000
D	2 angle & 1 vertical well \$2,042,000	1 angle & 1 collector well \$3,654,000	3 angle wells \$2,227,000
E	2 vertical wells \$1,253,000	1 collector well \$3,150,000	1 collector well \$3,150,000
J	2 vertical wells \$1,609,000		1 vertical & 1 angle well \$1,680,000
U	2 vertical wells \$1,531,000	2 vertical wells \$1,531,000	1 vertical & 1 angle well \$1,632,000
W	2 vertical wells \$1,762,000	2 vertical wells \$1,762,000	2 vertical wells \$1,762,000
Subtotal	\$17,706,000	\$19,331,000	\$18,265,000
Contingencies - 10%	\$ 1,771,000	\$ 1,933,000	\$ 1,827,000
Estimated Costs	\$19,477,000	\$21,264,000	\$20,092,000

- a Development costs include wells, pumps and motors, all structures and associated mechanical, HVAC and electrical, standby power at Sites B, C and D, site piping, roads, site improvements, site electrical distribution, and \$200,000 per site allowance for bank stabilization at Sites A, B, C, J, U and W.
- b Costs at Site D do not include cost of construction of angle well installed in 2003.

From Table 2.8-2, the least costly alternative is Option 1 (one collector well at Site B) at \$19,477,000, followed by Option 3 (one collector well at Site E) at \$20,092,000, and Option 2 (three collector wells at Sites B, D and E) at \$21,264,000.

Option 2 is the most costly option because it incorporates three collector wells which are more expensive to construct than vertical and angle wells. Option 3 is slightly more costly than Option 1 because it uses more angle wells. Angle wells are more costly than vertical well construction.

Option 1 is the recommended plan because it is the least costly. However, the cost difference between Option 1 and 3 is \$615,000 or about 3 percent. As the well field is developed and the capacities of vertical and angle wells are better defined, some of the well components of the Option 3 plan could be incorporated into Option 1 to optimize well field development.

The well site development costs are higher than the FER for the following reasons:

- The FER costs were based on a well field capacity of 39.3 MGD. The well field capacity is now 53.2 MGD.
- The FER costs included six well sites. The well field has expanded to a total of 8 sites.
- The FER costs were based on 13 wells. The number of wells has increased to 19.

The first well sites to be developed within Option 1 are Sites C and D.

3.0 WELL SITE DEVELOPMENT

3.1 Option 1 Well Field Development Summary

Option 1 well field development plan and costs are summarized in Table 3.1-1.

Table 3.1-1
Option 1 Well Field
Development Summary
(One Collector Well at Site B)

Well Field Site	Well Type	Estimated Well Yield	# of Wells	Rate (MGD)	Estimated Construction Costs
Site A	Vertical	3.1	3	9.3	\$2,529,000
Site B	Collector	11.1	1	11.1	\$4,353,000
	Vertical	3.6	1	3.6	
Site C	Angle	3.3	2	6.6	\$2,627,000
	Vertical	2.4	1	2.4	
Site D	Angle ⁽²⁾	3.1	2	6.2	\$2,042,000
	Vertical	2.6	1	2.6	
Site E	Vertical	1.8	2	3.6	\$1,253,000
Site J	Vertical	1.3	2	2.6	\$1,609,000
Site U	Vertical	1.3	2	2.6	\$1,531,000
Site W	Vertical	1.3	2	2.6	\$1,762,000
WF Design Capacity			19	53.2	
Firm WF Capacity ⁽¹⁾				49.6	
Subtotal					\$17,706,000
Contingencies @ 10%					\$1,771,000
Estimated Cost					\$19,477,000

Notes:

(1) Firm capacity is capacity of well field with largest non-collector well out of service.

(2) One angle well constructed in 2003.

Option 1 will incorporate a total of 19 wells producing an estimated total of 53.2 MGD to the water treatment plant. Firm capacity is estimated to be 49.6 MGD.

The breakdown on the well types and corresponding production are summarized below:

Well Type	Number	Production, MGD
Collector Well	1	11.1
Angle Wells	4	12.8
Vertical Wells	14	29.3
Total	19	53.2

3.2 Well Types and Design Standards

3.2.1 Well Types

Three well types will be constructed in the well field: vertical, angle, and radial collector wells.

The wells will be designed in accordance with SD DENR regulations and Recommended Standards for Water Works.

3.2.2 Vertical Wells

Vertical wells will be constructed by the reverse circulatory rotary drilling. Design standards are summarized below:

- Casing – casing material will be carbon steel (API 5L, Grade B) having minimum weight, thickness, and diameters to be determined during final design.
- Screen – screen material will be Type 304 stainless steel. The screen will be of the wire wrapped pipe size. Screen diameter will be determined during final design. Screen slot size/interval will be determined during construction based on location, size, and gradation of water bearing formation.
- Sanitary seal – after the well is test pumped, it shall be sealed by pressure grouting. Seal material will be cement grout and it shall be placed between the casing and borehole. Seal depth shall be no more than 4 feet above the top of the aquifer or to a depth of 20 feet below grade, whichever is nearest to the ground surface.
- Upper well terminal – each vertical well, pump, and motor will be housed in an above ground pump house. The well casing will extend at least 12 inches above the pump house floor and at least 18 inches above final ground surface. For sites subject to flooding, the top of casing will be at least 3 feet above the 100-year flood level.
- Upper well terminal (alternative) – where well sites are visible from the river, submersible pumps and motors with pitless adapters will be considered. Pitless adapter will terminate 18 inches above final grade or 3 feet above flood level, whichever is greater.

3.2.3 Angle Wells

Angle wells will be constructed by dual reverse circulatory rotary drilling. Design standards are summarized below:

- Casing material – casing material shall be carbon steel similar to that discussed for vertical wells. Casing weight, thickness and diameter to be determined during final design.
- Screen – screen material will be Type 304 stainless steel. The screen will be of the wire wrapped pipe size. Screen diameter will be determined during final design. Screen slot size/interval will be determined during construction based on location, size, and gradation of water bearing formations.

- Sanitary seal – after the well is test pumped, it shall be sealed. Seal material will be a combination of cement grout and bentonite. The length of seal will be based on the angle of the well from the horizontal, but its vertical length will be generally as discussed for vertical well
- Upper terminus of the well – the upper end of each well will terminate with a pitless adapter. It will terminate 18 inches above final grade or 3 feet higher than the 100-year flood level, whichever is higher.

3.2.4 Radial Collector Wells

Radial collector wells will be constructed using a poured in place central caisson. A pump house will be located over the top of the well. Design standards are summarized below:

- Caisson – interior diameter will be 13 feet. Depth below grade will be 90 to 100 feet, depending on the location of laterals determined during final design.
- Laterals – laterals will be Type 304 stainless steel construction wire wrapped. Their diameter will be about 12 inches. Screen slot size, diameter, length and location will be determined during final design.
- Upper terminus of the well – the top of the caisson be covered with a water tight floor. For sites subject to flooding, the top of the caisson will be at least three feet above the 100-year flood level.

3.3 **Typical Structure Design Standards**

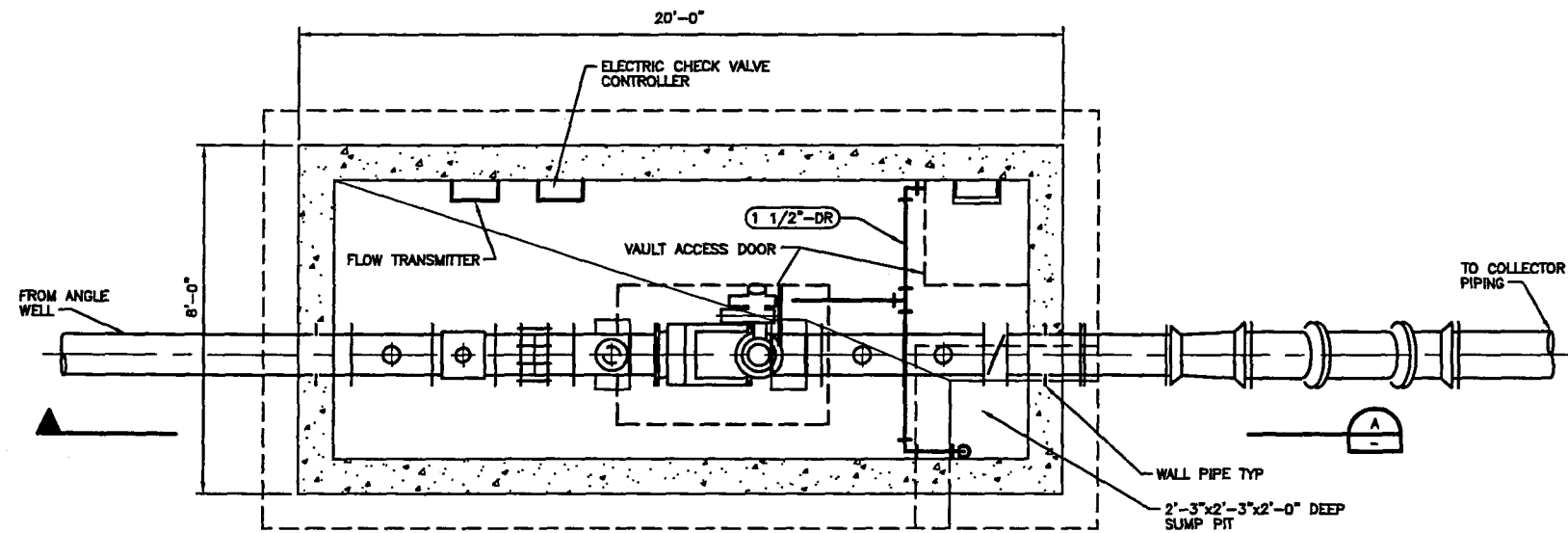
3.3.1 Valve Vaults

Valve vaults will be used in association with each angle well and where submersible pumps and motors are used in vertical wells. A typical valve vault is shown in Figure 3.3-1. The vaults will be cast-in-place structures and will house the discharge valving and flow meter for each angle well. The vaults will be constructed below ground.

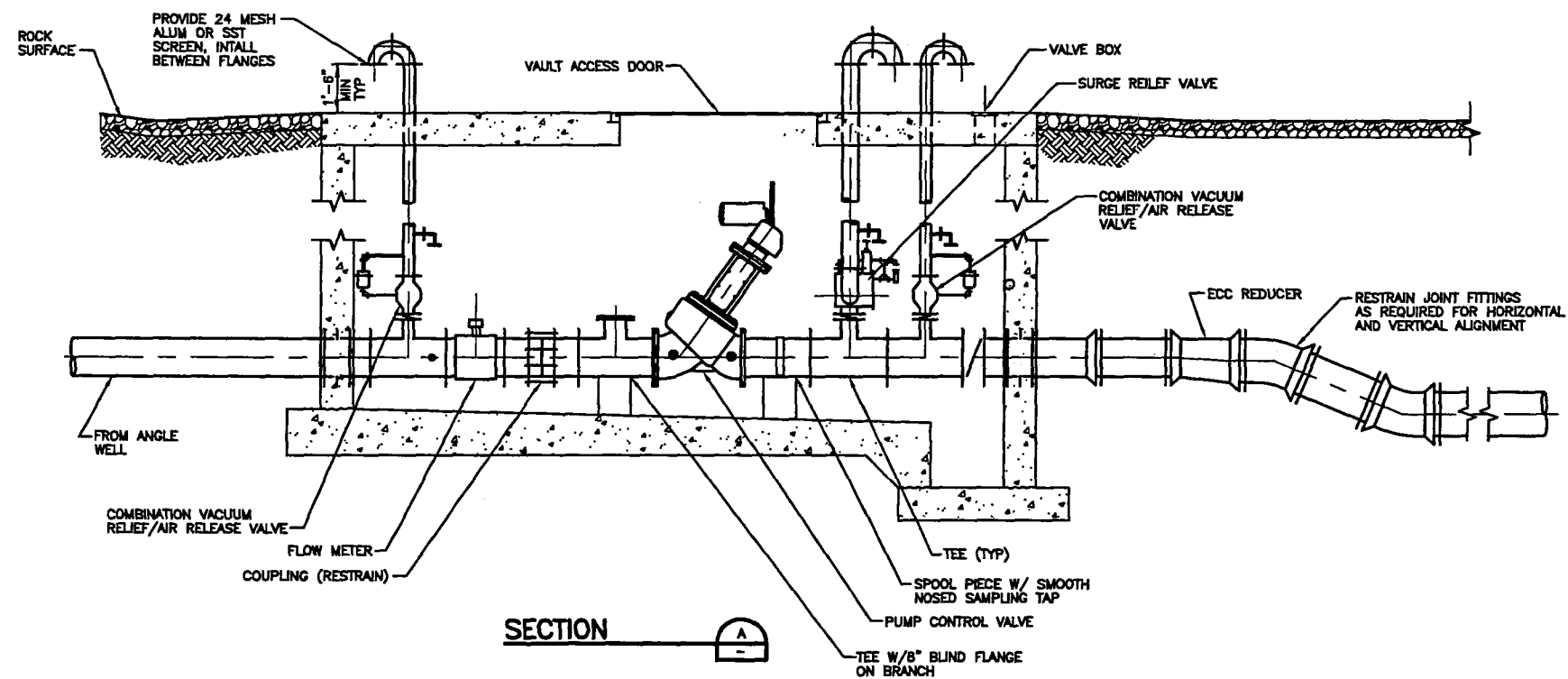
3.3.1.1 *Valves and Primary Elements*

The valving and primary elements expected to be included in each vault are summarized below:

- Air/Vacuum Valve – Air/vacuum valve will be installed between the pump discharge and pump control valve and shall automatically exhaust air from the pump discharge piping on pump start-up and allow air to enter the pipe line as the pump turns off.



VALVE VAULT PLAN



SECTION

Banner Associates, Inc.
HDR Engineering, Inc.
TRG-Marrah Associates, Inc.

PRE-DESIGN REPORT

**LEWIS AND CLARK RURAL
WATER SYSTEM**

FIGURE 3.3-1

**Typical Valve Vault
For Angle Well
Plan and Section**

- **Pump Control Valve** – Pump control valve will serve two functions. It will serve as a check valve to prevent backflow when the pump is not operating. In addition to functioning as a check valve, the valve operates in concert with the pump motor to impart a controlled, gradual change of fluid velocity during normal pump start-up and shutdown so that damaging surge pressures are prevented. If the valve is open when the power fails, the electric motor actuator holds position, but the check automatically separates from the actuator and quickly closes to prevent backflow to the pump. The type of pump control valve considered for this installation will have an electric motor actuator to eliminate the need of complex electro-hydraulic controls, or compressed air systems.
- **Surge Relief Valve** – Surge relief valve shall be installed downstream of the pump control valve. The surge relief valve will open quickly when the system pressure exceeds the setting of the valve. The valve shall close slowly at an adjustable speed once the system pressure subsides below the valve setting.
- **Air/Vacuum Valve** – Air vacuum valve will be installed downstream of the surge relief valve. This valve will protect the pipeline from cavitation pressures created during a down surge by allowing air to enter the pipeline.
- **Flow Meter** – Flow meters will be of the magnetic type and will have a remote mounted transmitter mounted on the wall of the valve vault. Indication of flow rate and totalized flow rate will be provided at the transmitter and at the water treatment plant by SCADA.
- **Discharge Pressure** – Pump discharge pressure will be indicated by a pressure transmitter.

3.3.1.2 Structure

The vault will be a poured-in-place structure and be installed below ground. Vault features are summarized below:

- Vault will have two access hatches. One hatch will allow equipment to be removed from the vault. The other hatch will allow personnel to egress and ingress. Both hatches will be equipped with intrusion alarms.
- Vault floor will have a sump where drain water will accumulate. A sump pump will pump water from the sump to the exterior of the vault.

3.3.1.3 *Electrical*

A stainless steel pad-mounted enclosure will be mounted on one corner of the vault. Approximate size of enclosure is 44" x 36" x 24". It will house the power panel for the vault and controls.

3.3.2 Angle Wells

Figure 3.3-2 illustrates a typical angle well. Major components and features are summarized below:

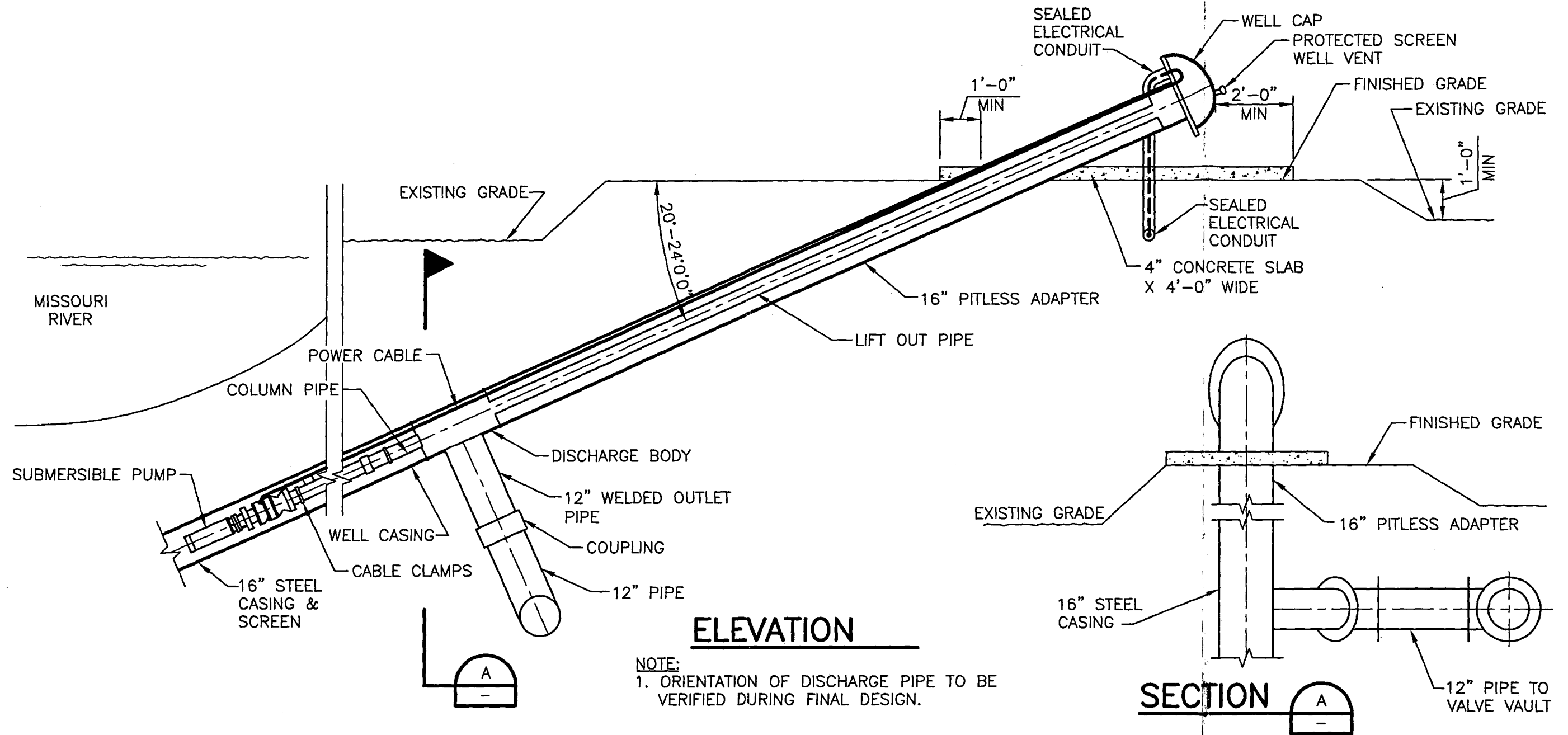
- Well will be drilled on an angle of about 20 degrees to the horizontal.
- Pumps and motors will be submerged near the bottom of the well.
- Top of well will be fitted with a pitless adapter attached to the well casing. The discharge from the well will be underground to the valve vault.
- Well water level will be provided by a submersible hydrostatic level transmitter to monitor and transmit pumping levels to the water treatment plant by SCADA.
- Motor control centers for the angle wells will be housed in the closest vertical well house.

3.3.3 Vertical Wells and Houses

Figures 3.3-3 and 3.3-4 illustrate a typical well house for a vertical well. Major components and characteristics of the structure are provided below:

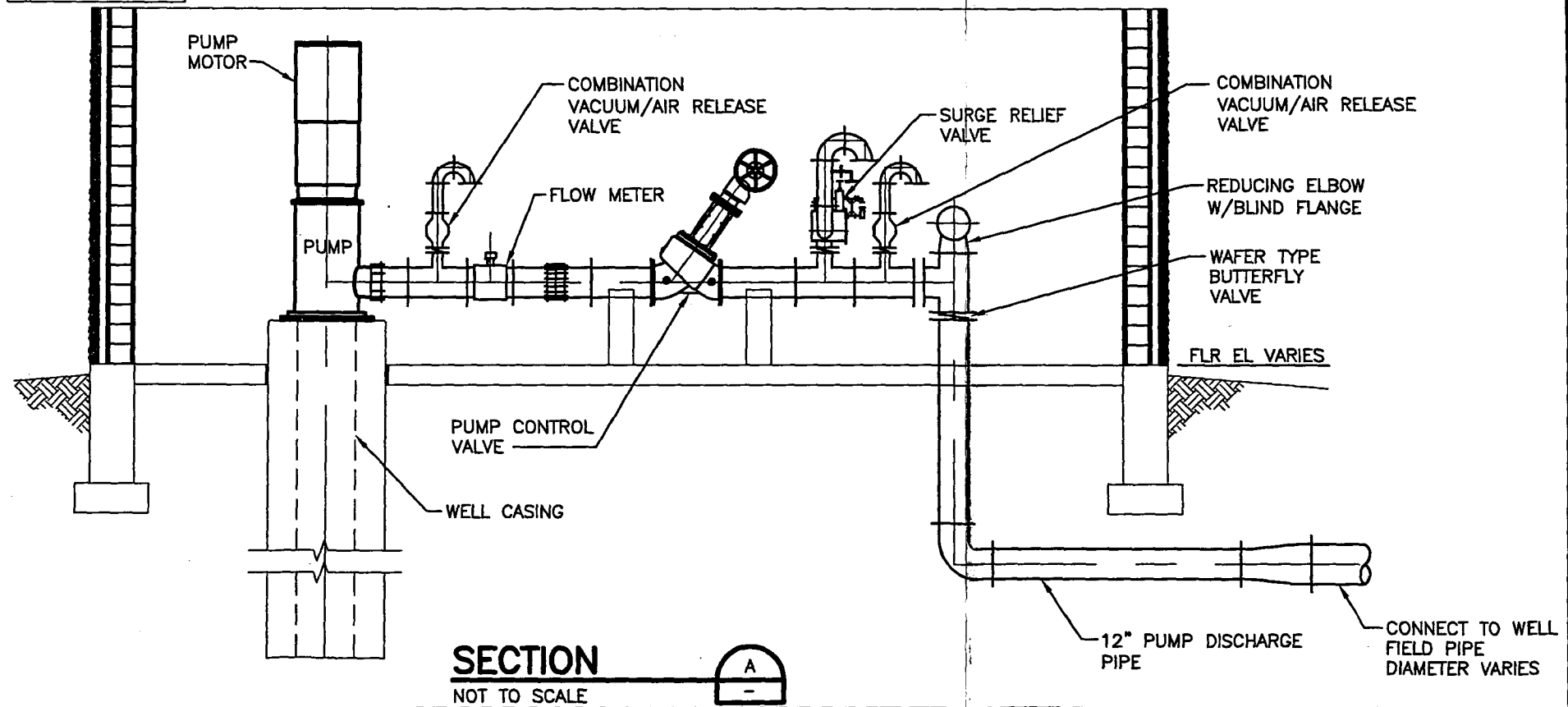
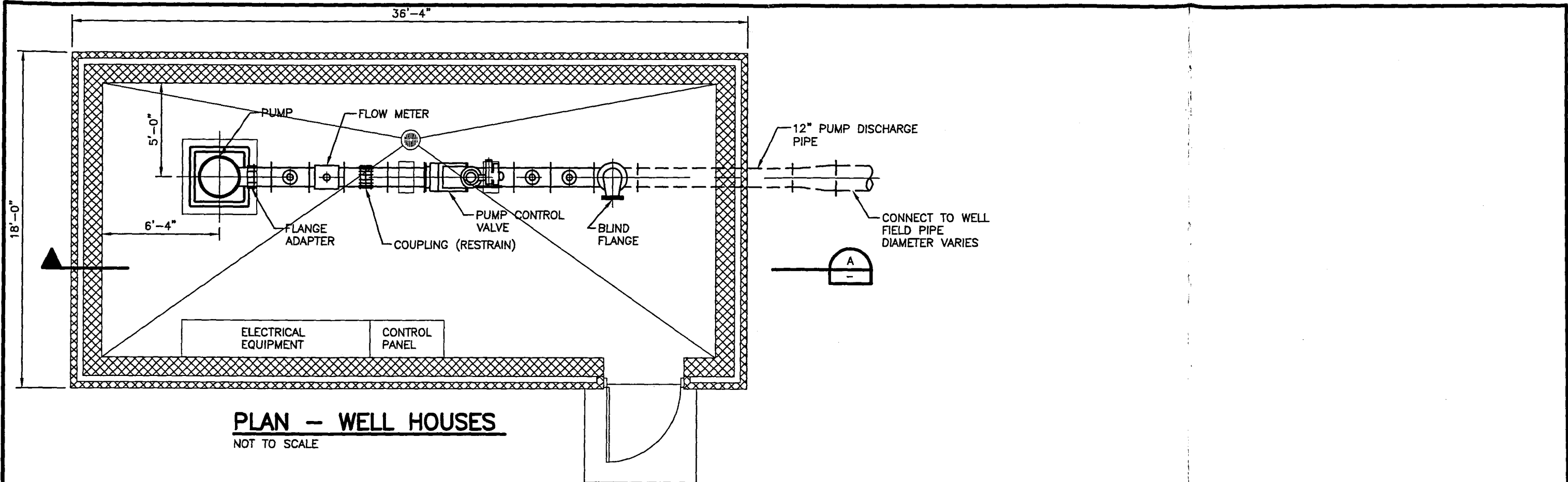
- Well house will be a split-face concrete masonry building with a cavity type wall.
- Well house roof will be a standing seam metal roof system.
- Well house roof will have two sky lights to remove well pump/motor and pump control valve.
- Well house will include motor control centers for vertical pump as well as angle wells when angle wells are used at the site.
- Air/vacuum valves, pump control valves, surge relief valves, and flow and pressure measurements will be identical to that described for the valve vaults.

C:\P\working\OMA\dms45531figure 3.3-2.dwg, Plot, 2/28/2006 10:50:33 AM, mchrisl



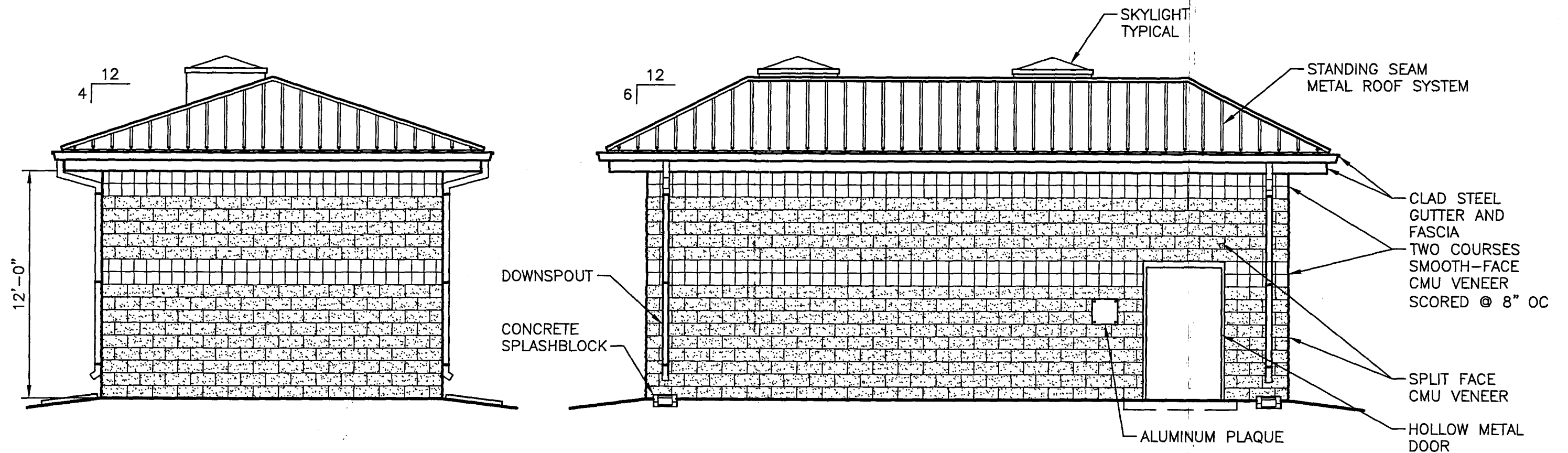
Banner Associates, Inc. HDR Engineering, Inc. TRG Mariah Associates, Inc.	PRE-DESIGN REPORT	FIGURE 3.3-2
	LEWIS AND CLARK RURAL WATER SYSTEM	Typical Angle Well Elevation and Section

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Banne Associates, Inc. HDR Engineering, Inc. TRC-Mariah Associates, Inc.	PRE-DESIGN REPORT	FIGURE 3.3-3
	LEWIS AND CLARK RURAL WATER SYSTEM	Well House For Vertical Wells Plan and Section

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Banner Associates, Inc. HDR Engineering, Inc. TRC Mariah Associates, Inc.	PRE-DESIGN REPORT	FIGURE 3.3-4
	LEWIS AND CLARK RURAL WATER SYSTEM	Well House For Vertical Wells Elevations

- Well water level will be provided by a submersible hydrostatic level transmitter to monitor and transmit pumping level to the water treatment plant by SCADA.
- Well house door will be equipped with an intrusion alarm.
- Pumps will be vertical turbine with the column pipe suspended in the well. However, where the wells are visible from the river, consideration will be given to using submersible pumps and motors with pitless adapters.

3.3.4 Collector Wells and Houses

Collector well houses will be similar construction to that of the vertical well houses. Major characteristics and components of the structure are summarized below:

- Well house will be a split-face concrete masonry building with a cavity wall.
- Well house will contain three vertical turbine pumps, two duty and one standby.
- Air/vacuum valves, pump control valves, surge relief valves, and flow and pressure measurements will be similar to that described for the valve vaults.
- Well house door will be equipped with an intrusion alarm.
- Collector well will have its own motor control center.
- Well water level will be provided by a submersible hydrostatic level transmitter to monitor and transmit pumping level to the water treatment plant by SCADA.
- Skylights will be provided in the roof over each pump/motor to allow for pump removal.

3.4 **Standby Power**

Standby power will be provided to the well field to provide at least 26 MGD of water production in the event of a power outage. Standby power will be provided at Well Sites C, D, and B.

Each site will have a permanently installed diesel generator. Generators will be installed outside above flood level next to a well house in a weather-proof enclosure with a sub-base fuel tank.

The generator will be sized to power loads at the well site. The fuel tank will be sized for 36 to 48 hours of run time at full load. The generator will be connected to the electrical system via an automatic transfer switch that will turn the generator on after a utility power outage.

The standby generators will create noise through the air exhaust and engine mechanical noise. To reduce exhaust noise, generators are usually specified with a non-walk-in weatherproof enclosure with a critical grade silencer on the exhaust. However, this does not reduce the engine noise. During final design, additional noise attenuation will be evaluated:

- Adding ductwork on the engine radiator to turn the air up.
- Install silencers on the radiator.
- Install a noise attenuation enclosure (walk-in) for the complete generator.

Table 3.4-1 summarizes the standby generators and connected loads at Sites C, D, and B.

**Table 3.4-1
Standby Generator and Connected Load Summary**

Well Field Site	Well Type	Well Yield, MGD	# of Wells Connected to Standby Generator	Yield From Site, MGD ^b	Accumulated Well Yield, MGD ^b	Accumulated Firm Capacity, MGD ^{a, b}	Electrical BHP Input to Motor		Size of Standby Generator
							Each ^c	Total	
C	Angle Well	3.3	2				2 @ 167		
	Vertical Well	2.4	1	9.0	9.0	5.7	1 @ 116	450	600 kw
D	Angle Well	3.1	2				2 @ 157		
	Vertical Well	2.6	1	8.8	17.8	14.5	1 @ 128	442	600 kw
B	Collector Well	11.1	1	11.1			2 @ 311 ^d	622	
	Vertical Well	3.6	0	0	28.9	25.6			800 kw

a Assumes largest non collector well out of service.

b Well yield connected to standby generator.

c Assumes wire to water efficiency of 75%.

d Two pumps operational.

3.5 Collector Piping

3.5.1 General and Background

The well field collector piping for this discussion is assumed to be that piping from each individual well to the edge of the well site where raw water transmission mains have been or will be constructed. The diameter of this pipe network varies from 12 IN to 36 IN diameter. Pressures in the collector piping will average about 75 to 80 psi.

3.5.2 Pipeline Sizing Criteria

Pipeline sizing is based on the criteria from the FER:

- Head loss limited to less than 4 feet per 1,000 feet.
- Pipeline velocity limited to less than 4 fps.

3.5.3 Materials

Typical pipe materials for water lines are PVC, DIP, and steel.

For pipe sizes above 18 IN, ductile iron and steel will be considered more economical than steel.

For pipe sizes above 18 IN, both steel and ductile iron will be considered. Requirements for ductile iron are as follows:

1. Conform to AWWA C150 and 151 for thickness design.
2. Include cement mortar lining per AWWA C104.
3. Coating system shall be as required by BOR TM No. 8140-CC-2004-1 Corrosion Considerations for Buried Metallic Water Pipe.

Requirements for steel pipe include the following:

1. Conform to AWWA C200 for wall thickness.
2. Pipe lining shall be cement mortar in accordance with AWWA C205.
3. Coating system shall be as required by BOR TM No. 8140-CC-2004-1 Corrosion Considerations for Buried Metallic Water Pipe.

3.5.4 Bury Depth

Minimum bury depth is 6 feet.

3.6 Well Site Access and Access Roads

Access to Sites A, B, C, D and E will be from State Highway 19. All sites are state owned.

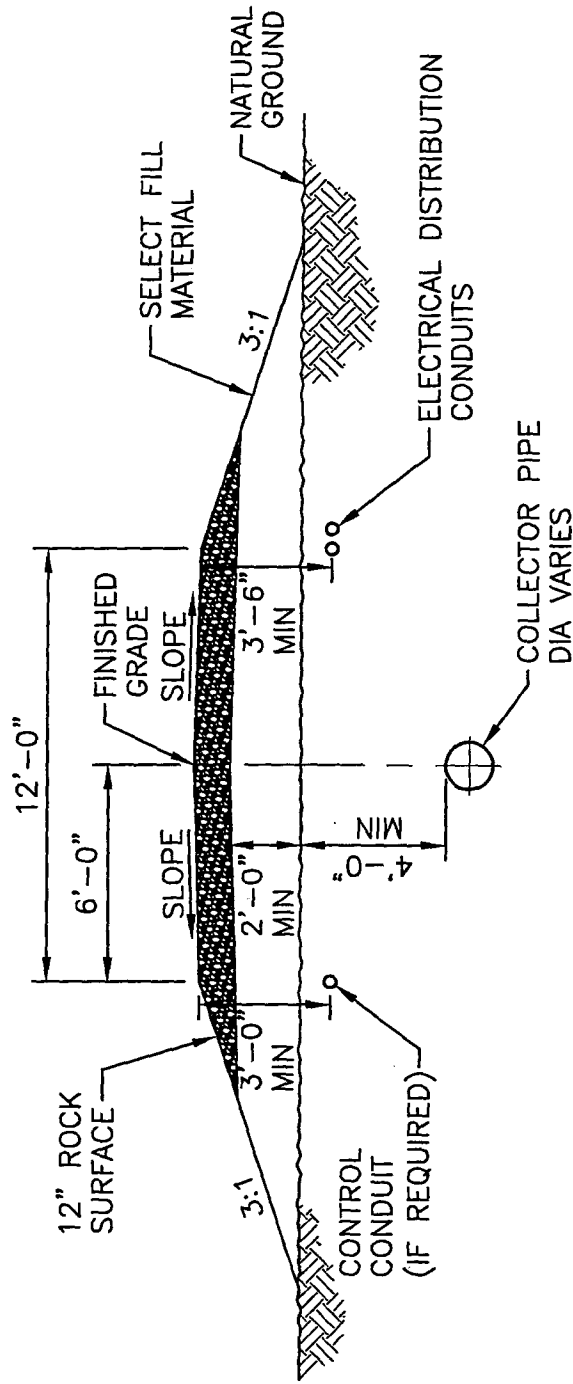
Sites U and W are on private property. Negotiations with the property owners for the well sites and access has not been conducted yet. However, for this evaluation, the assumption is made that access to both sites will be from 460th Avenue (gravel road to boat ramp) and will follow the north tree line along the river to each site.

Site J is owned by LCRWS. Access to the site will be directly from Independence Avenue.

In general, the access roads will be constructed about 2 to 3 feet higher than existing grade in the area. Roads will be constructed of crushed limestone and gravel 12 inches thick on top of a compacted subgrade. Roads will have a minimum width of 12 feet with 3:1 backslopes. Each well site will have a parking area for operating personnel and maintenance vehicles. Where feasible, roads will follow adjacent to river bank stabilization to minimize tree removal.

Water pipeline, electrical ductbank, and conduit for control wire (if required) will be buried under the road where possible to reduce utility trenching depths and reduce ROW widths.

Figure 3.6-1 illustrates a typical access road cross section with utilities.



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FIGURE 3.6-1
Wellfield Access Road
Typical Section

3.7 Floodway Mitigation

As discussed in Section 2.3.1, no designated floodways exist. Therefore, floodway mitigation is not required.

3.8 Wetlands Mitigation

As discussed in Section 2.6, wetlands will not be disturbed or destroyed. Therefore, wetlands mitigation is not required.

3.9 Other Environmental Issues

Wetlands avoidance, floodplain and floodway, and river bank erosion have been previously discussed. However, there are mitigation/avoidance criteria for other environmental concerns addressed in the EA. Some of the avoidance criteria from the EA that could significantly impact project construction schedule are summarized below:

- Surveys for nesting piping plovers and least terns would be performed by a qualified biologist prior to any construction near the Missouri River if construction activities are scheduled to occur during the breeding or nesting season (April 15 and August 15). In the event an active nest is found, consultation with the USFWS would be initiated and activities that are determined to potentially disrupt or otherwise adversely affect breeding or nesting activities would not take place within 0.25 mile or other USFWS-identified distance of active nests.
- Raptor nest surveys would be conducted by a qualified biologist prior to disturbance as deemed necessary during IERT reviews if construction activities are proposed to be conducted between January 1 and July 31.
- All surface-disturbing activities would be seasonally restricted from January 15 to August 1 within 0.25 mile of any active bald eagle nest.
- No construction work would occur during January and February of any year within 0.5 mile of identified bald eagle communal roost areas or within 0.25 mile of any active bald eagle forage, perch, or roost trees. Construction activities may occur in these areas from November 15 to December 31 or March 1 to March 15 only between the hours of 10:00 a.m. and 3:00 p.m. and only when temperatures exceed 20°F.
- Additional mitigations for nesting raptors and/or other migratory birds may be provided on a site-specific basis during construction in consultation with Bureau of Reclamation, USFWS, and state wildlife agencies.
- Construction activities would be avoided from May 15 to July 31 in potential Topeka shiner habitat.

- Substrate disturbance in streams occupied by Topeka shiner and/or with a high potential to be occupied by the species would be minimized and would only occur after July 31 and before May 15 in any year. No removal of stream bottom substrates for construction material would occur.
- Trenched crossings of intermittent streams would occur only in dry areas and/or during periods of flow outside of the spawning period.
- Some of the most important visual features within the project are associated with the Missouri River below Gavins Point Dam. These features contributed to the river's classification within the Wild and Scenic River System.

Visually important features located within the project will be preserved by avoidance as deemed necessary during IERT reviews. Possible mitigation measures include: avoidance of disturbance to most native grassland, wetland, and riparian areas and appropriate revegetation to reduce visual impacts (annually cultivated cropland would not be revegetated); minimization of construction area size; visual screening of permanent facilities utilizing natural topographic features or vegetation; landscaping permanent facility sites with trees, shrubs, and grasses; and designing permanent facility form and coloration to match that of surrounding areas.

Prior to start of any construction activities at the well sites, a reconnaissance survey of the well site should be conducted by qualified personnel to determine the probability of species occurrence so that appropriate avoidance/mitigation criteria are met.

3.10 Electrical, Controls, Telemetry and Power Requirements

Each well site will have two or three wells. Vertical wells and collector wells will have well houses enclosing vertical turbine pumps, motors and discharge piping/valves. Angle wells will not be housed since the associated pump and motor is submerged in the well. Angle well discharge piping/valves will be enclosed in buried valve vaults near each angle well. Typical electrical, controls, and telemetry for the well field are discussed below for Sites C and D, and Site B.

3.10.1 Sites C and D

At Sites C and D, the well house for the vertical well will house the main electrical service equipment and control equipment. The electrical equipment will consist of the service disconnect, automatic transfer switch (as required), disconnect for each well pump motor, reduced voltage solid state starters for the vertical and angle well pumps, step down transformer and panelboard for 120 volt loads. The remote valve vaults will be powered by a 480 volt feeder from the well house to a packaged power supply (combination step down transformer and panelboard). A surge protection device shall be incorporated into each motor control center.

The disconnects for the angle well pump motors will be located at motor control center in the well house for the vertical well. Each disconnect will be able to be locked in the open position for safety when maintenance work is occurring on the submersible pumps.

The remote angle well and packaged power supply feeders will be sized for the voltage drop to compensate for the long distance to the well house. All power conductors and control wires from the angle wells and valve vaults will be placed in a direct buried Schedule 40 PVC conduit(s). Handholes will be located in the duct bank at a maximum of 500 feet.

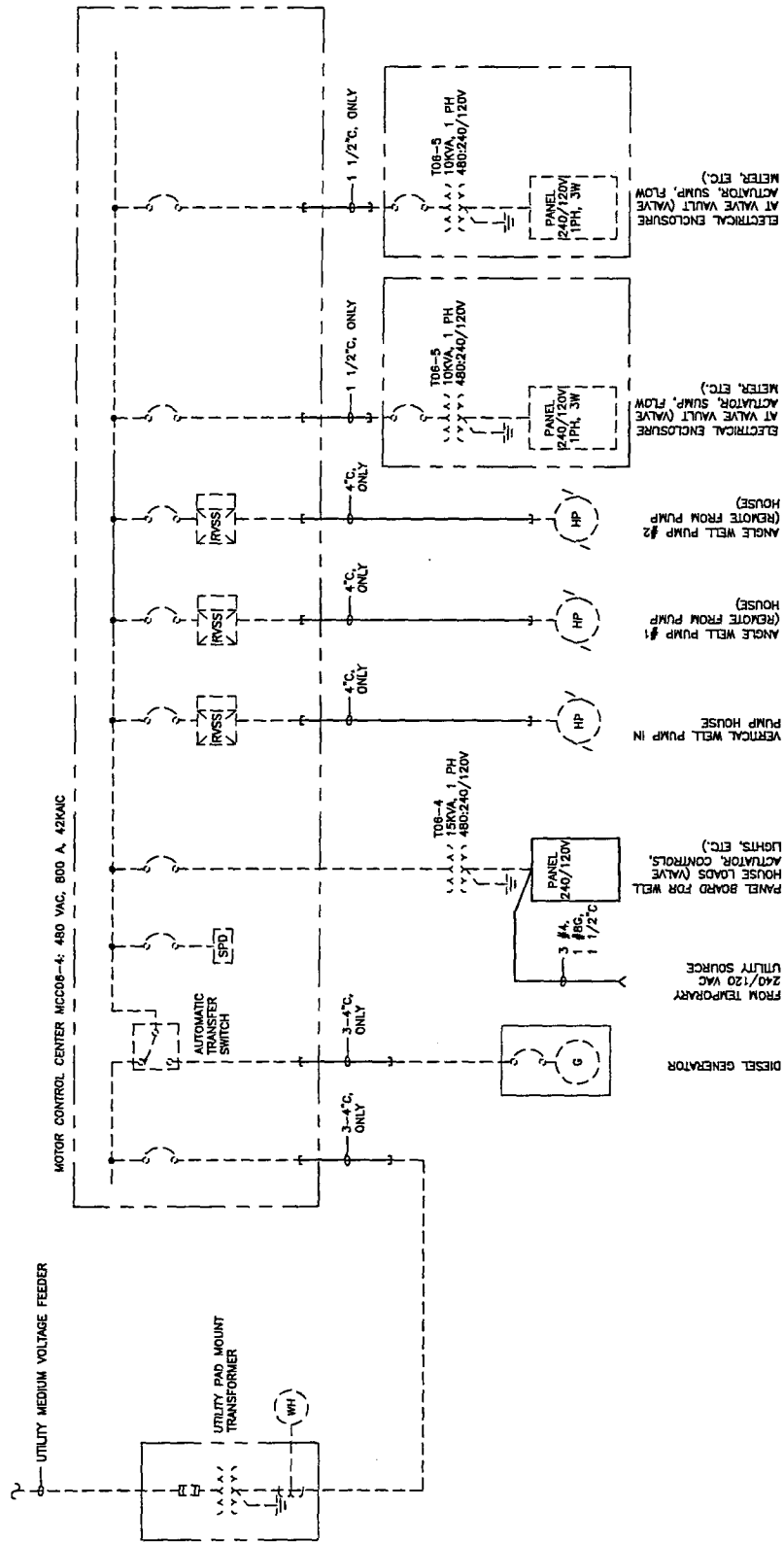
A typical one line diagram is shown in Figure 3.10-1.

3.10.2 Site B

The well site will consist of three vertical well pumps in a collector well house and a vertical well pump in a separate well house.

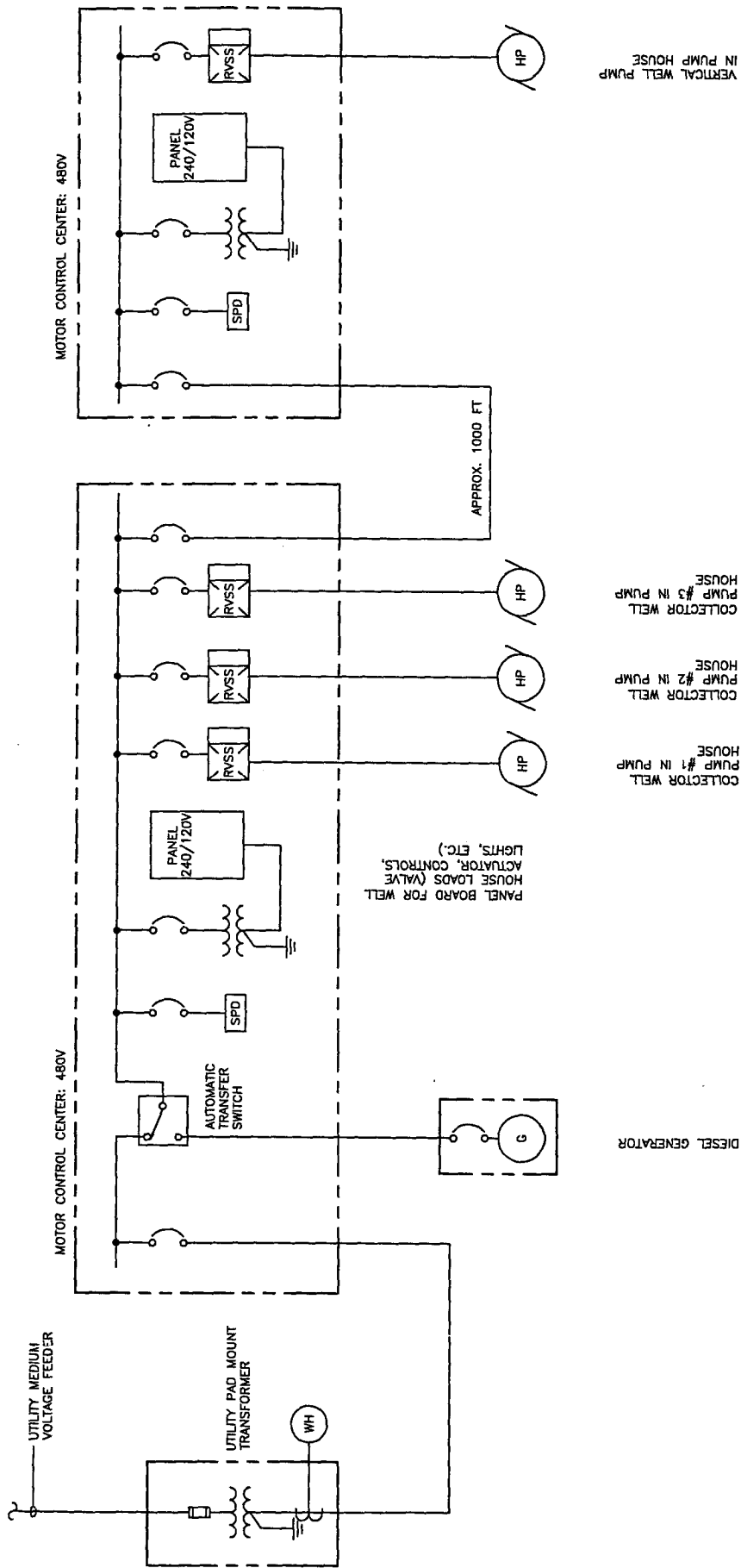
The collector well house will house the main electrical service equipment and control equipment for both well facilities. The electrical equipment will consist of the service disconnect, automatic transfer switch, reduced voltage solid state starters for the collector well pumps, step down transformer and panelboard for 120 volt loads. The vertical well house will be powered by a 480 volt feeder from the collector well house. The vertical well house will house the electrical equipment for the vertical well pump and will consist of the main disconnect, reduced voltage solid state starters for the vertical well pumps, step down transformer and panelboard for 120 volt loads. A typical one line diagram is shown in Figure 3.10-2.

The remote vertical well house feeder will be sized for the voltage drop to compensate for the long distance to the well house. All power conductors and control wires between the well houses will be placed in a direct buried Schedule 40 PVC conduit(s). Handholes will be located in the duct bank at a maximum of 500 feet.



SITE "C" ONE LINE DIAGRAM (SIDE "D" ONE LINE DIAGRAM IS IDENTICAL)
NOT TO SCALE

PRE-DESIGN REPORT	FIGURE 3.10-1
LEWIS AND CLARK RURAL WATER SYSTEM	Typical One-line Diagram Well Sites C & D Conceptual



Scale: NONE

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FIGURE 3.10-2

**Typical One-line Diagram
Well Site B
Conceptual**

3.10.3 Telemetry

A system of remotely controlling and monitoring the wells is essential. The wells will be controlled remotely from the water treatment plant by radio with the option of local control. The monitoring of various operational parameters will be done at each well and the water treatment plant.

The proposed control and monitoring at each well are described as follows:

• Pump Control	Run/Stop on step
• Pump Power Failure	Alarm
• Well Water Level	0 to 100, alarm (low)
• Pump Operating Pressure	0 to 150 psi, alarms (low and high)
• Pumping Rate	0 to 11.1 MGD, depending on well capacity
• HOA Switch "Hand"	Status
• HOA Switch "Auto"	Status
• Power Consumption	0 to 300 kw
• Standby Generator Failure	Alarm
• Standby Generator Status	Run/Stop
• Pump Control Valve Activation	Open/Close
• Room Temperature	Alarm (low and high)
• Intrusion	Alarm
• Pump Run Time	Hours
• Room Flood Alarm	Alarm
• Sump Pump Alarm Failure	Alarm

3.10.4 Power Requirements

Table 3.10-4 summarizes the well pump motor requirements for each well site.

Table 3.10-4
Estimated Well Site Power Requirements

Well Field Site	Well Type	Est. Well Yield	Option 1 – One Collector Well (Site B)		Electrical BHP Input to Motor		Motor Horse Power Sizes
			# of Wells	Rate (MGD)	Each ³	Total at Site	
Site A	Vertical	3.1	3	9.3	3 @ 152	456	3 @ 175 HP
Site B	Collector	11.1	1	11.1	2 @ 311	622	3 @ 350 HP
	Vertical	3.6	1	3.6			
Site C	Angle	3.3	2	6.6	2 @ 167	450	2 @ 175 HP
	Vertical	2.4	1	2.4	1 @ 116		1 @ 125 HP
Site D	Angle ⁽²⁾	3.1	2	6.2	2 @ 157		2 @ 175 HP
	Vertical	2.6	1	2.6	1 @ 128	442	1 @ 150 HP
Site E	Vertical	1.8	2	3.6	2 @ 87	174	2 @ 100 HP
Site J	Vertical	1.3	2	2.6	2 @ 55	110	2 @ 75 HP
Site U	Vertical	1.3	2	2.6	2 @ 55	110	2 @ 75 HP
Site W	Vertical	1.3	2	2.6	2 @ 57	114	2 @ 75 HP
WF Design Capacity			19	53.2			
Firm WF Capacity ⁽¹⁾				49.6			

Note:

- (1) Firm well capacity is well field design yield with the largest non-collector well out of service.
- (2) One angle well constructed in 2003.
- (3) Assumes wire to water efficiency of 75%.

3.11 Site Security

The production wells remotely located in a rural area along the Missouri River south of Vermillion will provide the source water for the water treatment plant. The total number of well sites (estimated at 19), however, represents substantial redundancy. Destruction of any given well would impact a small amount of the source of water to the water treatment plant. A significant number of wells would have to be compromised before the production of water would be impacted. However, due to the rural remoteness of the site, some site security should be implemented.

SCADA monitoring at each well site will provide detection of tampering/intrusion of valve vaults and pump houses. The access hatches for the valve vaults and doors to the pump houses should be provided with roller arm limit switches to monitor for intrusion. NEMA 4 switches are needed for the moisture environment.

Each well site should be provided with area security lighting to make the areas more visible at night.

3.12 Recommended Well Site Development Plan

3.12.1 Priority of Construction

Table 3.12-1 summarizes the recommended well construction priority.

Construction should start first in the most productive part of the well field, which is Site A, B, C, D and E followed by the other sites.

Sites C and D will be constructed first with an estimated total yield of 17.8 MGD and a firm capacity of 14.5 MGD. This is more firm yield than initially required, however, it is important that all six (6) wells be constructed and test pumped so that the hydraulic conductivity of the aquifer and the capacities of angle wells and vertical wells can be verified with actual data. Currently, aquifer data are very preliminary. Based on the well test data, the recommended plan could change in terms of well site construction priority and well types.

By 2012, the well field needs to deliver at least 28 MGD (see Table 2.1-1). This demand can be met by development of Site B with one collector and one vertical well.

The balance of the well field will be developed as system demands grow. However, Sites A and E should be developed next since they offer the most yield. The last sites to be developed are J, U, and W because they appear to be the least productive and require construction of a 36-inch transmission line to connect back to the system.

**Table 3.12-1
Recommended Well Construction Priority**

Construction Priority	Well Field Site	Well Type	Well Yield, MGD	# of Wells	Total Yield From Site, MGD	Accumulated Total Well Yield, MGD	Accumulated Firm Capacity, MGD
First	C	Angle Well	3.3	2			
		Vertical Well	2.4	1	9.0	9.0	
	D	Angle Well	3.1	2			
		Vertical Well	2.6	1	8.8	17.8	14.5
Second	B	Collector Well	11.1	1			
		Vertical Well	3.6	1	14.7	32.5	28.9
Third	A	Vertical Well	3.1	3	9.3	41.8	38.2
Fourth	E	Vertical Well	1.8	2	3.6	45.4	41.8
Fifth	J	Vertical Well	1.3	2	2.6	48.0	44.4
Sixth	U	Vertical Well	1.3	2	2.6	50.6	47.0
Seventh	W	Vertical Well	1.3	2	2.6	53.2	49.6

a Assumes largest non collector well out of service.

3.12.2 Well Site Development

Well site development plans for each site are shown in Figures 3.12-1 through 3.12-8.

3.12.2.1 *Sites C and D*

Figures 3.12-1 and 3.12-2 illustrate the proposed well development for Sites C and D. Key points are summarized below:

- Three wells will be constructed at each site where shown, with two angle wells and one vertical well.
- Estimated spacing between the three wells is 800 to 1,000 feet.
- Each angle well will be provided with a valve vault that will contain discharge piping and valves.
- Each site will have one well house and it will be constructed at the vertical well. The well house will contain the vertical well pump and its associated discharge piping and valves.
- The well houses will also house the main electrical service equipment and control equipment for all three well pumps. All power conductors and control wires between the well house and angle wells and valve vaults will be placed in direct buried Schedule 40 PVC conduits.
- A fire hydrant will be located near each well house to allow flushing of wells and pipe periodically.
- Each site will have a permanently installed diesel generator and will be located outside in a weatherproof enclosure, next to the well house. The size of the generator is estimated at 600 kw and will power all well pumps.
- A road system will be provided to each well facility with parking space provided.
- Each well will be provided with security fencing and a vehicular lockable access gate.
- Bank stabilization will be required for Site C as shown.



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FIGURE 3.12-1

Well Site 'C'
Proposed
Development Plan



Scale: 1" = 200'

TOTAL ESTIMATED WELL PRODUCTION = 8.8 MGD.

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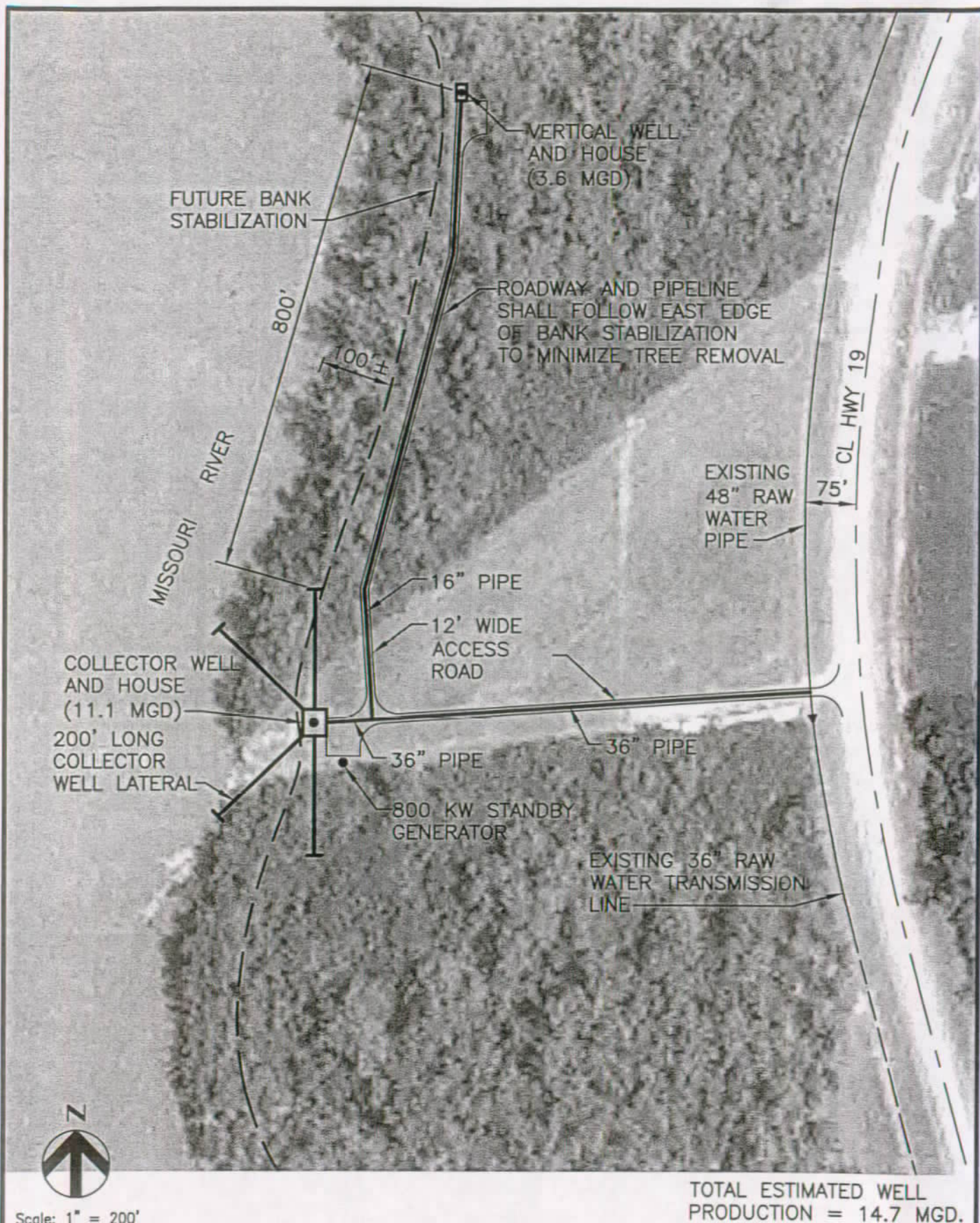
FIGURE 3.12-2

Well Site 'D'
Proposed
Development Plan

3.12.2.2 Site B

Figure 3.12-3 illustrates the proposed well development plan for Site B. Comments on the plan are provided below:

- One collector and one vertical well will be constructed at the site.
- Spacing between the two wells is 800 feet (between the vertical well screen and northern-most lateral of the collector well).
- Two well houses will be constructed, one at the collector well and one at the vertical well. Each well house will contain vertical turbine pumps and discharge piping for each pump. Motor control centers will be provided in both well houses.
- A road system will be provided to each facility, with parking space provided.
- Each well will be provided with security fencing and a lockable vehicular access gate.
- Bank stabilization will be required.
- The collector well house will be furnished with a diesel powered generator which will be located adjacent to the collector well in a weatherproof enclosure. The size of the generator is estimated at 800 kw and will operate two collector well pumps.
- A fire hydrant will be located at each site to allow flushing of wells and pipe periodically.



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FIGURE 3.12-3

Well Site 'B'
Proposed
Development Plan

3.12.2.3 Sites A, E, J, U, and W

Figures 3.12-4 through 3.12-8 illustrate proposed development plans for the remaining sites. A fire hydrant will be located at each site to allow flushing of wells and pipe periodically. Comments on the sites are summarized below:

- Site A – Figure 3.12-4
 - Well site is located in 100-year flood plain, so roads and well heads will need to be elevated above the flood level.
 - Designated wetlands are between the wells and Highway 19. Electrical conduit could be bored under the wetlands. The 30 IN pipe could be open trenched, which would temporarily disturb, but not destroy the wetlands.
 - Bank stabilization probably required.
- Site E – Figure 3.12-5
 - Bank stabilization in place.
 - Raw water transmission line must be extended south.
- Site J – Figure 3.12-6
 - LCRWS owns the site.
 - Bank stabilization probably required.
 - New raw water transmission line must be constructed to the site.
 - Power company must construct distribution power line to the site.
- Sites U and W – Figures 3.12-7 and 3.12-8
 - Both sites are on private property. Sites must be secured and access to each site negotiated for road and pipe line.
 - Bank stabilization probably required.
 - New raw water transmission line must be constructed to Site J.
 - Power company must construct distribution power line to at least Site U.

3.12.3 Well Sites C and D Implementation Plan and Costs

Well Sites C and D will be constructed in two phases. The first phase will commence construction in 2006 and include wells, valve vaults, well houses, roads, buried piping, electrical ductbank, and river bank erosion control.

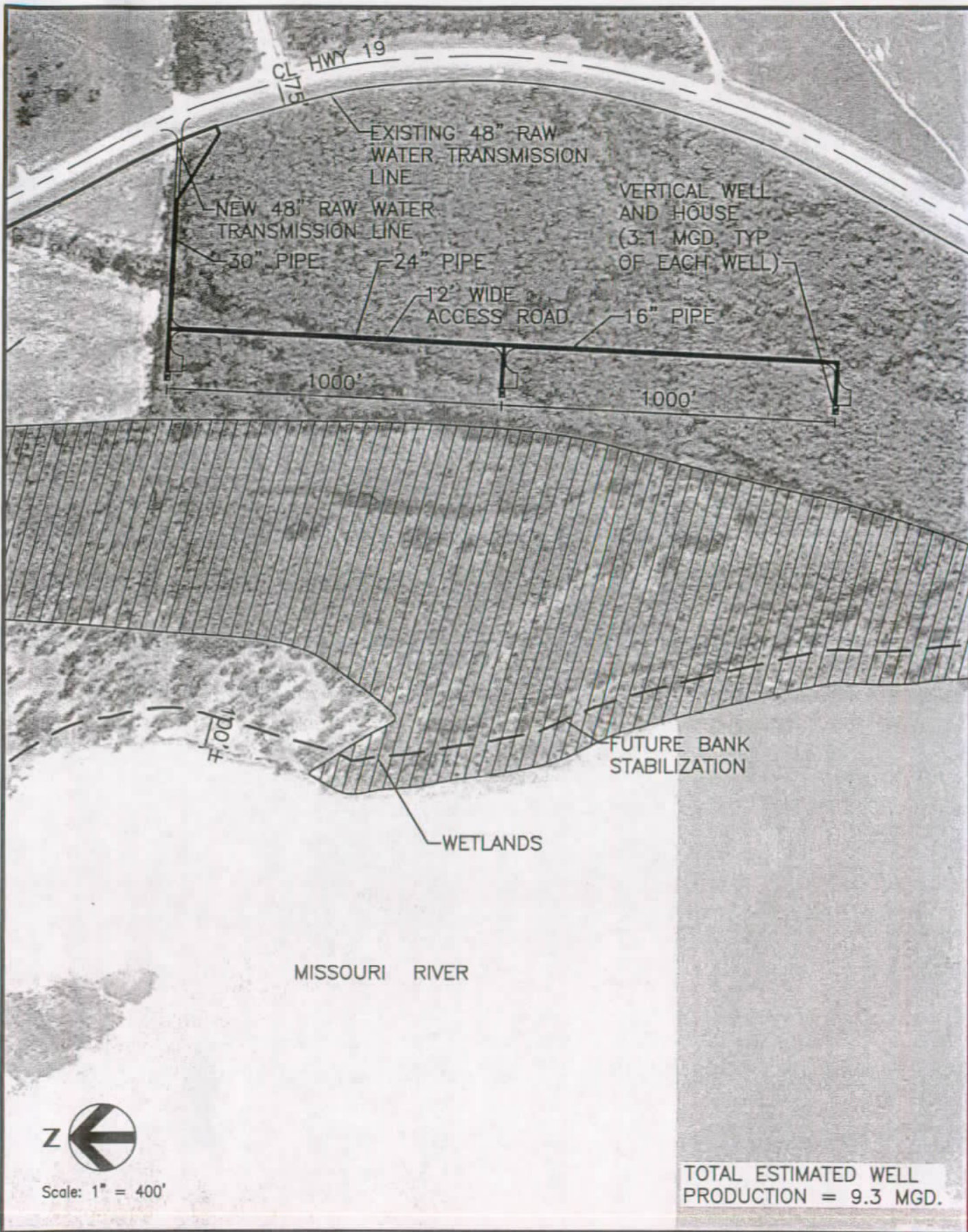
The second phase will be constructed in a few years and will include well pumps and motors, electrical switchgear, instrumentation and control, standby generators, electrical cable pulling, pump control valves and other special valves.

Table 3.12-2 summarizes the costs for Phase 1 and Phase 2 construction.

Table 3.12-1
Cost Summary for Phase 1 and Phase 2 Construction

Phase	Cost ^c	Accumulated Cost ^c
1 ^a (2006 Construction)	\$2,969,000	\$2,969,000
2 ^b (Later Construction)	\$2,167,000	\$5,136,000

- a Includes wells, valve vaults, well houses, roads, buried piping, electrical duct bank and river bank erosion.
- b Includes well pumps and motors, electrical switchgear, instrumentation and control, standby generators, electrical cable pulling, pump control valves and other special valves.
- c Includes contingencies.



Scale: 1" = 400'

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FIGURE 3.12-4

Well Site 'A'
Proposed
Development Plan



Scale: 1" = 200'

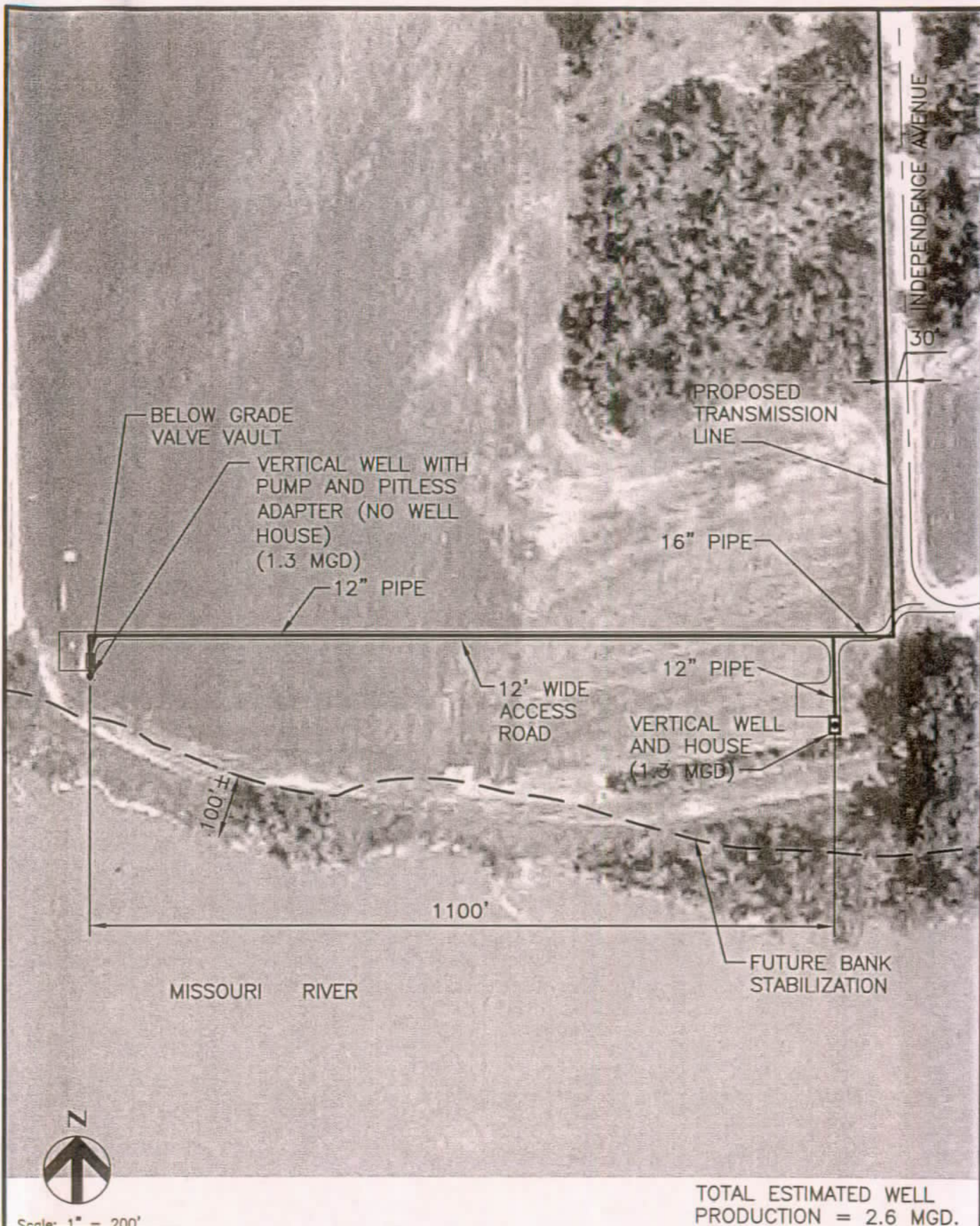
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FIGURE 3.12-5

**Well Site 'E'
 Proposed
 Development Plan**



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	LEWIS AND CLARK RURAL WATER SYSTEM	Well Site 'J' Proposed Development Plan

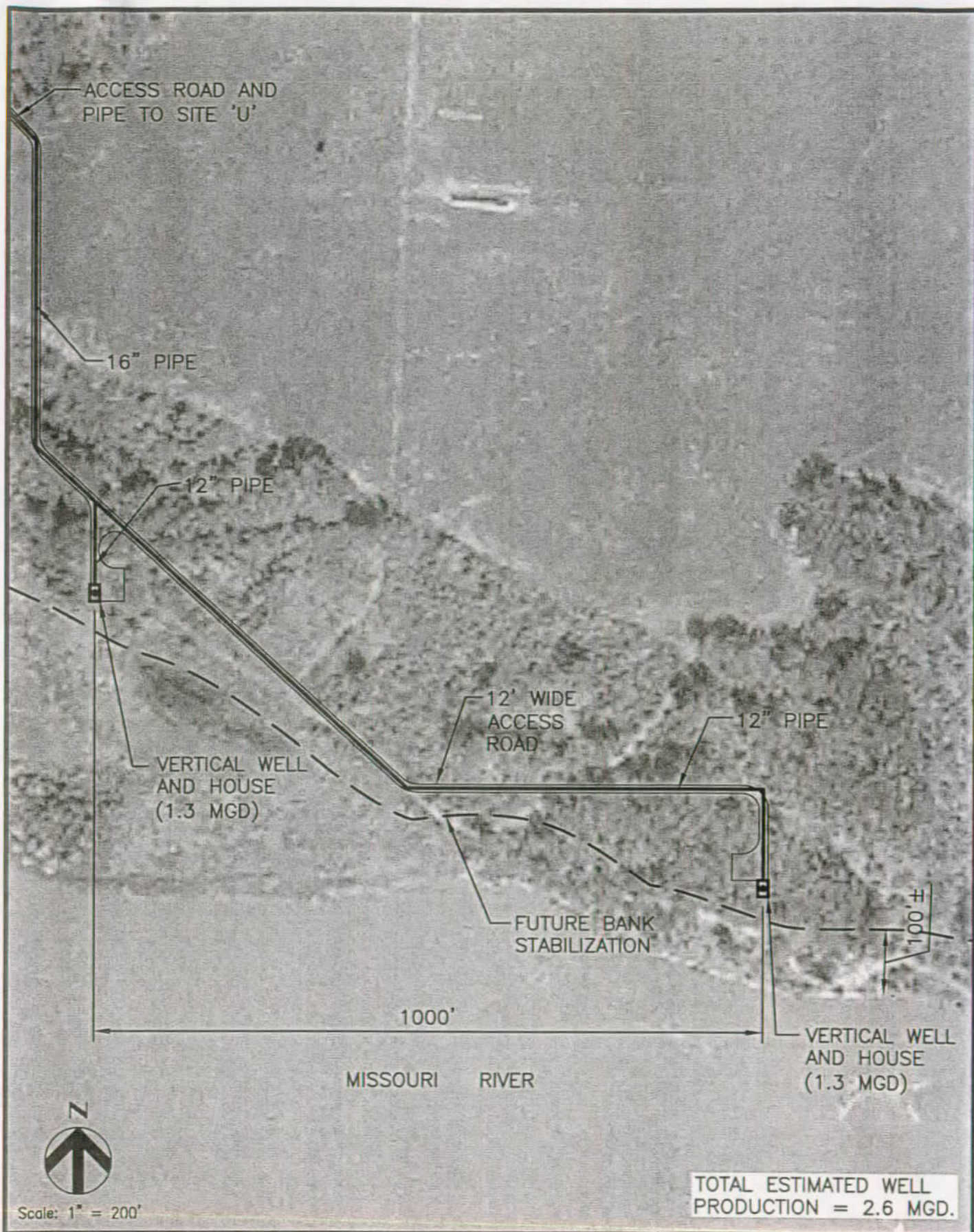


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FIGURE 3.12-7

Well Site 'U'
Proposed
Development Plan



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FIGURE 3.12-8

Well Site 'W'
Proposed
Development Plan

Appendix A

Site Development Cost Estimates Sites A, B, C, D, E, J, U and W

Site Development Costs

1

Site	Item	Estimated Unit Cost	Option 1 One Collector Well (Site B)			Option 2 Three Collector Wells (Sites B, D, E)			Option 3 One Collector Well (Site E)		
			Quantity	Yield, MGD	Estimated Cost	Quantity	Yield, MGD	Estimated Cost	Quantity	Yield, MGD	Estimated Cost
SITE A	1 Well Construction										
	Angle Well	\$360,000 EA	3	EA	\$432,000	1	EA	\$360,000	1	EA	\$360,000
	Vertical Well	\$144,000 EA				2	EA	\$288,000	2	EA	\$288,000
	2 Pump and Motor	\$144,000 EA									
	Angle Well	\$130,000 EA	3	EA 200 HP	\$390,000	1	EA 150 HP	\$144,000	1	EA 150 HP	\$144,000
	Pump House Building	\$162 /SF				2	EA 200 HP	\$260,000	2	EA 200 HP	\$260,000
	Angle Well Valve Vault	\$210 /SF				1	EA	\$25,920	1	EA	\$25,920
	Angle Well, 1 well	\$210 /SF									
	Vertical Well	\$210 /SF	3	Bldgs	\$342,720	2	Bldg	\$228,480	2	Bldg	\$228,480
	4 Site Piping										
	Class 250, 30 IN DIP	\$168 /LF	750	LF	\$126,000	750	LF	\$126,000	750	LF	\$126,000
	Class 250, 24 IN DIP	\$120 /LF	1,000	LF	\$120,000	1,000	LF	\$120,000	1,000	LF	\$120,000
	Class 250, 16 IN DIP	\$72 /LF	1,000	LF	\$72,000	1,000	LF	\$72,000	1,000	LF	\$72,000
	5 Mechanical										
	Percent of Building Cost										
	Control valve	\$26,400 EA	3	EA	\$34,272	3	EA	\$25,440	3	EA	\$25,440
	6 HVAC										
	Percent of Building Cost										
	15%										
	7 Building Electrical										
	MCC per well house, Vertical Well	\$30,000 EA	3	EA	\$90,000	1	EA	\$30,000	1	EA	\$30,000
	MCC per well house, Vertical + Angle Well	\$48,000 EA				1	EA	\$48,000	1	EA	\$48,000
	Well house lights, recpt, etc	\$6,000 EA	3	EA	\$18,000	2	EA	\$12,000	2	EA	\$12,000
	8 Instrumentation										
	Instrumentation for each vault or pump house	\$18,000 EA	3	EA	\$54,000	3	EA	\$54,000	3	EA	\$54,000
	RTU at each site	\$24,000 EA	1	EA	\$24,000	1	EA	\$24,000	1	EA	\$24,000
	Standby Generator										
	600 KW	\$159,600 EA									
	Electrical Distribution										
	Primary Ductbank - from road to well house	\$24 /LF	750	LF	\$18,000	750	LF	\$18,000	750	LF	\$18,000
	Secondary direct buried conduits - from well house to other wells	\$54 /LF	2,000	LF	\$108,000	2,000	LF	\$108,000	2,000	LF	\$108,000
	Secondary / service cable - from well house to other wells	\$96 LF									
	Manholes	\$4,800 EA	6	EA	\$28,800	6	EA	\$28,800	6	EA	\$28,800
	11 Site Improvements										
	Access Road	\$41 /LF	2,650	LF	\$108,120	2,650	LF	\$108,120	2,650	LF	\$108,120
	Well Pad	\$43,200 EA									
	Site Stabilization	\$240,000 LS	1	LS	\$240,000	1	LS	\$240,000	1	LS	\$240,000
Site Subtotal				8.3	\$2,528,520		9.2	\$2,630,120		9.2	\$2,630,120

Site Development Costs

Site	Item	Estimated Unit Cost	Option 1 One Collector Well (Site B)			Option 2 Three Collector Wells (Sites B, D, E)			Option 3 One Collector Well (Site E)		
			Quantity	Total Yield, MGD	Estimated Cost	Quantity	Total Yield, MGD	Estimated Cost	Quantity	Total Yield, MGD	Estimated Cost
SITE B	1 Well Construction										
	Collector Well	\$2,040,000 EA	1 EA	11.1	\$2,040,000	1 EA	11	\$2,040,000	3 EA	10.8	\$432,000
	Vertical Well	\$144,000 EA	1 EA	3.6	\$144,000	1 EA	3.6	\$144,000			
	Pump and Motor	\$380,000 EA	1 EA 350 HP		\$380,000	1 EA 350 HP		\$380,000			
	Collector Well, 3 pumps	\$130,000 EA	1 EA 200 HP		\$130,000	1 EA 200 HP		\$130,000	3 EA 200 HP		\$390,000
	Pump House Building										
	Collector Well	\$210 /SF	1 Bldg		\$294,000	1 Bldg		\$294,000			
	Vertical Well	\$210 /SF	1 Bldg		\$114,240	1 Bldg		\$114,240	3 Bldg		\$342,720
	Site Piping	\$216 /LF	730 LF		\$157,680	730 LF		\$157,680	730 LF		\$157,680
	Class 250, 36 IN DIP	\$72 /LF	950 LF		\$68,400	950 LF		\$68,400	1,950 LF		\$140,400
	Class 250, 16 IN DIP										
5	Mechanical										
	Percent of Building Cost	10%									
6	HVAC	\$26,400 EA	2 EA		\$52,800	2 EA		\$52,800	3 EA		\$79,200
	Control valve				\$40,824			\$40,824			\$51,408
	Percent of Building Cost	15%			\$61,236			\$61,236			\$90,000
7	Building Electrical	\$30,000 EA									
	MCC per well house, Vertical Well										
	MCC per well house, Collector Well (3 motors) +										
	Vertical Well	\$63,600 EA	1 EA		\$63,600	1 EA		\$63,600	3 EA		\$18,000
	Well house lights, recpt, etc	\$6,000 EA	2 EA		\$12,000	2 EA		\$12,000			
8	Instrumentation										
	Instrumentation for each vault or pump house	\$18,000 EA	2 EA		\$36,000	2 EA		\$36,000	3 EA		\$54,000
	RTU at each site	\$24,000 EA	1 EA		\$24,000	1 EA		\$24,000	1 EA		\$24,000
9	Standby Generator	\$159,600 EA									
	600 KW	\$204,000 EA	1 EA		\$204,000	1 EA		\$204,000	1 EA		\$159,600
10	Electrical Distribution										
	Primary Ductbank - from road to well house	\$24 /LF	800 LF		\$19,200	800 LF		\$19,200			
	Secondary direct buried conduits - from well house	\$54 /LF	1,200 LF		\$64,800	1,200 LF		\$64,800	800 LF		\$19,200
	Secondary / service cable - from well house to	\$96 LF	1,200 LF		\$115,200	1,200 LF		\$115,200	2,000 LF		\$192,000
	Manholes	\$4,800 EA	4 EA		\$19,200	4 EA		\$19,200	6 EA		\$28,800
11	Site Improvements										
	Access Road	\$41 /LF	1,750 LF		\$71,400	1,750 LF		\$71,400	2,800 LF		\$114,240
	Well Pad	\$43,200 EA									
	Site Stabilization	\$240,000 LS	1 LS		\$240,000	1 LS		\$240,000	1 LS		\$240,000
	Site Subtotal			14.7	\$4,352,580		14.7	\$4,352,580		10.8	\$2,675,520

Site	Item	Estimated Unit Cost	Option 1 One Collector Well (Site B)				Option 2 Three Collector Wells (Sites B, D, E)				Option 3 One Collector Well (Site E)			
			Quantity	Yield, MGD	Estimated Cost	Quantity	Yield, MGD	Estimated Cost	Quantity	Yield, MGD	Estimated Cost	Quantity	Yield, MGD	Estimated Cost
SITE C	1 Well Construction													
	Angle Well	\$360,000	2 EA	6.6	\$720,000	2 EA	6.6	\$720,000	1 EA	3.3	\$360,000	1 EA	3.3	\$360,000
	Vertical Well	\$144,000	1 EA	2.4	\$144,000				2 EA	4.8	\$288,000	2 EA	4.8	\$288,000
	Pump and Motor	\$144,000 EA	2 EA 200 HP		\$288,000	2 EA 200 HP		\$288,000						
	Vertical Well	\$130,000 EA	1 EA 125 HP		\$130,000				2 EA 200 HP		\$288,000	1 EA 200 HP		\$144,000
	Pump House Building								2 EA 150 HP		\$260,000	2 EA 150 HP		\$260,000
	L, ft W, ft Square Ft													
	Angle Well, 1 well	\$210 /SF												
	Valve Vault	\$162 /SF	2 EA		\$51,840	1 Bldg		\$114,240	1 EA		\$25,920	1 EA		\$25,920
	Vertical Well	\$210 /SF	1 Bldg		\$114,240				2 Bldg		\$228,480			
	Site Piping													
	Class 250, 30 IN DIP	\$168 /LF	180 LF		\$30,240									
	Class 250, 24 IN DIP	\$120 /LF	600 LF		\$72,000	740 LF		\$88,800	180 LF		\$30,240	600 LF		\$72,000
	Class 250, 16 IN DIP	\$72 /LF	1,120 LF		\$80,640	1,120 LF		\$80,640	1,120 LF		\$80,640	1,120 LF		\$80,640
	Mechanical													
	Percent of Building Cost													
	Control valve	\$26,400 EA	3 EA		\$79,200	2 EA		\$52,800	3 EA		\$79,200			
	HVAC													
	Percent of Building Cost													
	Building Electrical													
	MCC per well house, Vertical + Angle Well or 2	\$48,000 EA	1 EA		\$48,000	1 EA		\$48,000	1 EA		\$48,000	1 EA		\$48,000
	Angle Wells	\$6,000 EA	3 EA		\$18,000	1 EA		\$6,000	3 EA		\$18,000			
	Well house lights, recept, etc													
	Instrumentation													
	Instrumentation for each vault or pump house	\$18,000 EA	3 EA		\$54,000	2 EA		\$36,000	3 EA		\$54,000	3 EA		\$54,000
	RTU at each site	\$24,000 EA	1 EA		\$24,000	1 EA		\$24,000	1 EA		\$24,000	1 EA		\$24,000
	Standby Generator													
	600 kW	\$159,600 EA	1 EA		\$159,600	1 EA		\$159,600	1 EA		\$159,600	1 EA		\$159,600
	Electrical Distribution													
	Primary Ductbank - from road to well house	\$24 /LF	150 LF		\$3,600	150 LF		\$3,600	150 LF		\$3,600	150 LF		\$3,600
	Secondary direct buried conduits - from well house to other wells	\$54 /LF	1,600 LF		\$86,400	1,600 LF		\$86,400	1,600 LF		\$86,400	1,600 LF		\$86,400
	Secondary / service cable - from well house to other wells	\$96 LF	1,600 LF		\$153,600	1,600 LF		\$153,600	1,600 LF		\$153,600	1,600 LF		\$153,600
	Manholes	\$4,800 EA	4 EA		\$19,200	4 EA		\$19,200	4 EA		\$19,200	4 EA		\$19,200
	Site Improvements													
	Access Road	\$41 /LF	1,700 LF		\$69,360	1,700 LF		\$69,360	1,700 LF		\$69,360	1,700 LF		\$69,360
	Well Pad	\$43,200 EA												
	Site Stabilization	\$240,000 LS	1 LS		\$240,000	1 LS		\$240,000	1 LS		\$240,000	1 LS		\$240,000
	Site Subtotal				\$2,627,440			\$2,251,200			\$2,507,840			\$2,507,840
				9.0		6.6			8.1					

Site	Item	Estimated Unit Cost	Option 1 One Collector Well (Site B)			Option 2 Three Collector Wells (Sites B, D, E)			Option 3 One Collector Well (Site E)		
			Quantity	Yield, MGD	Estimated Cost	Quantity	Yield, MGD	Estimated Cost	Quantity	Yield, MGD	Estimated Cost
SITE D	1 Well Construction										
	Angle Well	\$360,000	1 EA	6.2	\$360,000	0 EA	3.1	\$0	2 EA	9.3	\$720,000
	Vertical Well	\$144,000	1 EA	2.6	\$144,000	1 EA	8.6	\$2,040,000			
	Collector Well	\$2,040,000									
	Pump and Motor										
	Angle Well	\$144,000 EA	2 EA 200 HP		\$288,000	1 EA 200 HP		\$144,000	3 EA 200 HP		\$432,000
	Vertical Well	\$130,000 EA	1 EA 150 HP		\$130,000						
	Collector Well, 3 pumps and motors	\$380,400 EA				1 EA 300 HP		\$380,400			
	Pump House Building										
	Angle Well, 1 well	\$210 /SF									
	Valve Vault	\$162 /SF	2 EA		\$51,840	1 EA		\$25,920	1 Bldg		\$114,240
	Collector Well	\$210 /SF				1 Bldg		\$294,000			\$51,840
	Vertical Well	\$210 /SF	1 Bldg		\$114,240						
	Site Piping										
	Class 250, 30 IN DIP, existing	\$168 /LF	600 LF		\$28,800	600 LF			600 LF		\$28,800
	Class 250, 24 IN DIP	\$120 /LF	240 LF		\$66,960	240 LF			240 LF		\$28,800
	Class 250, 16 IN DIP	\$72 /LF	930 LF						930 LF		\$66,960
	Mechanical										
	Percent of Building Cost	10%									
	Control valve										
	HVAC	\$26,400 EA	3 EA		\$16,608	2 EA		\$31,992	3 EA		\$16,608
	Percent of Building Cost	15%									
	Building Electrical										
	MCC per well house, Vertical Well	\$30,000 EA									
	MCC per well house, 3 Angle Wells or Angle Well + Vertical Well										
	MCC per well house, Collector Well (3 motors) + Angle Well	\$48,000 EA	1 EA		\$48,000				1 EA		\$48,000
	Well house lights, recpt, etc										
	Instrumentation	\$63,600 EA	3 EA		\$18,000	1 EA		\$63,600	3 EA		\$18,000
	Instrumentation for each vault or pump house	\$6,000 EA				1 EA		\$6,000			
	RTU at each site	\$18,000 EA	3 EA		\$54,000	2 EA		\$36,000	3 EA		\$54,000
	Standby Generator	\$24,000 EA	1 EA		\$24,000	1 EA		\$24,000	1 EA		\$24,000
	600 kW	\$159,600 EA									
	800 kW	\$204,000 EA	1 EA		\$204,000	1 EA		\$204,000	1 EA		\$159,600
	Electrical Distribution										
	Primary Ductbank - from road to well house	\$24 /LF	400 LF		\$9,600	1,000 LF		\$24,000	400 LF		\$9,600
	Secondary direct buried conduits - from well house to other wells	\$54 /LF	1,800 LF		\$97,200	1,000 LF		\$54,000	1,800 LF		\$97,200
	Secondary / service cable - from well house to other wells	\$96 LF	1,800 LF		\$172,800	1,000 LF		\$96,000	1,800 LF		\$172,800
	Manholes	\$4,800 EA	5 EA		\$24,000	3 EA		\$14,400	5 EA		\$24,000
	Site Improvements										
	Access Road	\$41 /LF	2,100 LF		\$86,680	2,100 LF		\$86,680	2,100 LF		\$86,680
	Well Pad	\$43,200 EA									
	Site Subtotal			8.6	\$2,041,840		11.7	\$3,653,580		9.3	\$2,227,440

Site	Item	Option 1 One Collector Well (Site B)			Option 2 Three Collector Wells (Sites B, D, E)			Option 3 One Collector Well (Site E)		
		Quantity	Yield, MGD	Estimated Cost	Quantity	Yield, MGD	Estimated Cost	Quantity	Yield, MGD	Estimated Cost
SITE E	1 Well Construction									
	Collector Well	2 EA	3.6	\$2,040,000 EA	1 EA	7.1	\$2,040,000	1 EA	7.1	\$2,040,000
	Vertical Well			\$144,000 EA						
	Pump and Motor									
	Collector Well, 3 pumps and motors	2 EA 100 HP		\$380,000 EA	1 EA 250 HP		\$380,000	1 EA 250 HP		\$380,000
	Vertical Well			\$130,000 EA						
	Pump House Building									
	Collector Well	1 Bldg		\$210 /SF	1 Bldg		\$294,000	1 Bldg		\$294,000
	Vertical Well	1 EA		\$210 /SF						
	Valve Vault	1 EA		\$162 /SF						
	Vertical Well Pitless Adaptor	1 EA		\$31,000						
	4 Site Piping									
	Class 250, 24 IN DIP	1,170 LF		\$120 /LF	1,100 LF		\$132,000	1,100 LF		\$132,000
	Class 250, 12 IN DIP			\$48 /LF						
	Mechanical									
	Percent of Building Cost									
	Control Valve	2 EA		\$26,400 EA	1 EA		\$29,400	1 EA		\$29,400
	HVAC						\$26,400			\$26,400
	Percent of Building Cost						\$44,100			\$44,100
	Building Electrical	2 EA		\$30,000 EA	1 EA		\$48,000	1 EA		\$48,000
	MCC per well house, Vertical Well	2 EA		\$48,000 EA	1 EA		\$6,000	1 EA		\$6,000
	8 Instrumentation									
	Well house lights, recept, etc	2 EA		\$6,000 EA	1 EA		\$12,000	1 EA		\$12,000
	Instrumentation for each vault or pump house	2 EA		\$18,000 EA	1 EA		\$36,000	1 EA		\$36,000
	RTU at each site	1 EA		\$24,000 EA	1 EA		\$24,000	1 EA		\$24,000
	Standby Generator									
	600 KW			\$159,600 EA						
	800 KW			\$204,000 EA						
	Electrical Distribution	400 LF		\$24 /LF	1,000 LF		\$24,000	1,000 LF		\$24,000
	Primary Ductbank - from road to well house	1,200 LF		\$54 /LF	200 LF		\$10,800	200 LF		\$10,800
	Secondary direct buried conduits - from well house to other wells	1,200 LF		\$96 LF	200 LF		\$19,200	200 LF		\$19,200
	11 Site Improvements									
	Manholes	4 EA		\$4,800 EA	2 EA		\$9,600	2 EA		\$9,600
	Access Road									
	Well Pad	1,350 LF		\$41 /LF	1,100 LF		\$44,880	1,100 LF		\$44,880
Site Subtotal			3.6	\$1,252,560		7.1	\$3,150,380		7.1	\$3,150,380

W:\Lewis&Clark\Well Field Evaluation 2006\Well Cost Evaluation Summary

Site Development Costs

7

Site	Item	Estimated Unit Cost	Option 1 One Collector Well (Site B)			Option 2 Three Collector Wells (Sites B, D, E)			Option 3 One Collector Well (Site E)		
			Quantity	Total Yield, MGD	Estimated Cost	Quantity	Total Yield, MGD	Estimated Cost	Quantity	Total Yield, MGD	Estimated Cost
SITE U	1 Well Construction										
	Angle Well	\$360,000	2	EA	\$288,000	2	EA	\$288,000	1	EA	\$360,000
	Vertical Well	\$144,000							1	EA	\$144,000
	Pump and Motor	\$144,000 EA									
	Angle Well	\$130,000 EA	2	EA 75 HP	\$260,000	2	EA 75 HP	\$260,000	1	EA 75 HP	\$144,000
	Vertical Well								1	EA 75 HP	\$130,000
	Pump House Building										
	L, ft W, ft Square Ft										
	Angle Well, 1 well	\$210 /SF	2	Bldg	\$228,480	2	Bldg	\$228,480	1	EA	\$25,920
	Angle Well Valve Vault	\$162 /SF							1	Bldg	\$114,240
	Vertical Well	\$210 /SF	30	LF	\$2,160	30	LF	\$2,160	30	LF	\$2,160
	Vertical Well	\$48 /LF	1,130	LF	\$54,240	1,130	LF	\$54,240	1,130	LF	\$54,240
	Site Piping										
	Class 250, 16 IN DIP										
	Class 250, 12 IN DIP										
	Mechanical										
	Percent of Building Cost	10%									
	Control valve		2	EA	\$22,848	2	EA	\$22,848	2	EA	\$14,016
	HVAC	\$26,400 EA									
	Percent of Building Cost	15%									
	Building Electrical										
	MCC per well house, Vertical Well	\$30,000 EA	2	EA	\$60,000	2	EA	\$60,000			
	MCC per well house, Vertical + Angle Well	\$48,000 EA							1	EA	\$48,000
	Well house lights, recept, etc	\$6,000 EA	2	EA	\$12,000	2	EA	\$12,000	1	EA	\$6,000
	Instrumentation										
	Instrumentation for each vault or pump house										
	RTU at each site	\$18,000 EA	2	EA	\$36,000	2	EA	\$36,000	2	EA	\$36,000
	Standby Generator	\$24,000 EA	1	EA	\$24,000	1	EA	\$24,000	1	EA	\$24,000
	600 kW	\$159,600 EA									
	Electrical Distribution										
	Primary Ductbank - from road to well house	\$24 /LF	100	LF	\$2,400	100	LF	\$2,400	100	LF	\$2,400
	Secondary direct buried conduits - from well house to other wells	\$54 /LF	1,000	LF	\$54,000	1,000	LF	\$54,000	1,000	LF	\$54,000
	Secondary / service cable - from well house to other wells	\$96 LF	1,000	LF	\$96,000	1,000	LF	\$96,000	1,000	LF	\$96,000
	Manholes	\$4,800 EA	3	EA	\$14,400	3	EA	\$14,400	3	EA	\$14,400
	Site Improvements										
	Access Road										
	Well Pad	\$41 /LF	1,200	LF	\$48,960	1,200	LF	\$48,960	1,200	LF	\$48,960
	Site Stabilization	\$43,200 EA									
	Well Pad	\$240,000 LS	1	LS	\$240,000	1	LS	\$240,000	1	LS	\$240,000
	Site Subtotal			2.6	\$1,530,560		2.6	\$1,530,560		3.0	\$1,632,160

W:\Lewis&Clark\Well Field Evaluation 2006\Well Cost Evaluation Summary

Site	Item	Estimated Unit Cost	Option 1 One Collector Well (Site B)			Option 2 Three Collector Wells (Sites B, D, E)			Option 3 One Collector Well (Site E)		
			Quantity	Yield, MGD	Estimated Cost	Quantity	Yield, MGD	Estimated Cost	Quantity	Yield, MGD	Estimated Cost
SUBTOTAL	Well Field Design Yield Capacity			53.2	\$17,704,884		54.5	\$19,330,820		53.1	\$18,265,444
	Well Field Firm Yield Capacity			47.7			49.0			49.6	
	Sites C and D Design Yield Capacity			17.8			18.3			17.4	
	Sites C and D Firm Yield Capacity			11.6			14.0			12.8	
CONTINGENCIES											
10%					\$1,770,488			\$1,933,082			\$1,826,544
TOTAL					\$19,475,372			\$21,263,902			\$20,091,988

Notes

1. Standby power assumed at well sites B, C, and D only.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

October 4, 2007

Plain Talk
PO Box 256
Vermillion SD 57069

ATTENTION: Legal Public Notice

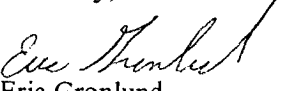
Enclosed is a Notice on Application No. 6869-3 to Appropriate Water to be published twice. Please publish the first notice on October 12, 2007 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Lewis and Clark Rural Water System, Troy Larson, 401 E 8th St, Ste. 306, Sioux Falls SD 57103 (Ph # 605-336-8688).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

No. 6869-3

TO: Eric Gronlund
Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

Date _____

We are in receipt of your letter of October 4, 2007 enclosing Notice to Appropriate Water by Application No. 6869-3 which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name

Newspaper



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

October 4, 2007

Salem Special
PO Box 220
Salem SD 57058

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PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

October 4, 2007

The New Era
PO Box 579
Parker SD 57053

ATTENTION: Legal Public Notice

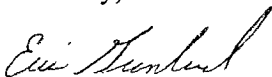
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JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

October 4, 2007

Argus Leader
PO Box 5034
Sioux Falls SD 57117

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DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

October 4, 2007

Sioux Valley News
PO Box 255
Canton SD 57013

ATTENTION: Legal Public Notice

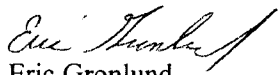
Enclosed is a Notice on Application No. 6869-3 to Appropriate Water to be published twice. Please publish the first notice on October 11, 2007 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Lewis and Clark Rural Water System, Troy Larson, 401 E 8th St, Ste. 306, Sioux Falls SD 57103 (Ph # 605-336-8688).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

No. 6869-3

TO: Eric Gronlund
Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

Date _____

We are in receipt of your letter of October 4, 2007 enclosing Notice to Appropriate Water by Application No. 6869-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

October 4, 2007

Leader Courier
PO Box 310
Elk Point SD 57025

ATTENTION: Legal Public Notice

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Natural Resources Engineer
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Water Rights Program
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Newspaper



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

October 4, 2007

Daily Leader
PO Box 348
Madison SD 57042

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 6869-3 to Appropriate Water to be published twice. Please publish the first notice on October 11, 2007 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

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Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

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Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

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Name

Newspaper

Instruction to Newspaper - Publish first Notice on October 11, 2007 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6869-3 to Appropriate Water for Future Use

Notice is given that Lewis & Clark Rural Water System, 401 E 8th St, Suite 306, Sioux Falls SD 57103 has filed an application for a water permit to appropriate and reserve 8,700 acre-feet annually from the Missouri:Elk Point Aquifer. The area to be reserved for future water use is located in Gov. Lots 1, 2, 3, and 4 of Section 16, Gov. Lots 1, 2, 3, and 4 of Section 17, Gov. Lots 3, 4 and the SE1/4 Section 22, Gov. Lots 1, 2 and the W1/2 of Section 26, and the N1/2 of Section 27, including accretion lands thereto, all in T92N, R52W of the 5th P.M., Clay County. The water is to be reserved for the purpose of providing future water supplies for the Lewis and Clark Rural Water System which supplies 20 public water systems in Turner, Lincoln, Minnehaha, Union, Lake, Clay and McCook counties in South Dakota; as well as Rock and Nobels counties in Minnesota; and Lyons, Sioux, Osceola and O'Brien Counties in Iowa.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6869-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by October 29, 2007.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

**NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATES, CONTACT
THE NEWSPAPER RIGHT AWAY.**

October 4, 2007

Lewis and Clark Rural Water System
Troy Larson
401 E 8th St
Sioux Falls SD 57103

Dave Odens
Banner & Associates
PO Box 298
Brookings SD 57006

Dear Mr. Larson and Mr. Odens:

Water Permit Application No. 6869-3 for Rural Water System use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Publishers of the following newspapers:

The New Era, Parker SD (605-297-4419)
Sioux Valley News, Canton SD (605-764-2000)
Daily Leader, Madison SD (605-256-4555)
Salem Special, Salem SD (605-425-2361)

Argus Leader, Sioux Falls SD (605-331-2200)
Leader Courier, Elk Point, SD (605-356-2632)
Plain Talk, Vermillion SD (605-624-2695)

You will need to contact the newspapers and authorize publication of these notices. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application is enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspapers to authorize publication of your Notices and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, the publisher has been instructed to publish your notices once each week for two consecutive weeks. The newspapers have also been instructed to send us the Proof of Publications. We must receive Proof of Publications before action can be taken on the applications.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

NOTE:

If you plan to contest any part of the Chief Engineer's recommendation, you must file a petition pursuant to the procedures outlined in the attached notice of hearing. The Water Management Board will then consider your concerns during a hearing on the application.

AFFIDAVIT OF PUBLICATION-

Customer Number: 078340

SD Dept of Environment & Natural Resources

Invoice Number: 1072820

Argus Leader **AFFIDAVIT OF PUBLICATION**

STATE OF SOUTH DAKOTA

COUNTY OF MINNEHAHA } ss

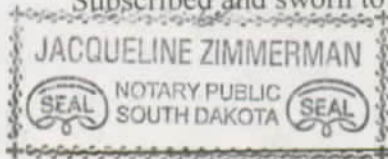
Betty Jones being duly sworn, says: That The Argus Leader is, and during all the times hereinafter mentioned was, a daily legal newspaper as defined by SDCL 17-2-21, as amended published at Sioux Falls, Minnehaha County, South Dakota; that affiant is and during all of said times, was an employee of the publisher of such newspaper and has personal knowledge of the facts stated in this affidavit; that the notice, order or advertisement, a printed copy of which is hereto attached, was published in said newspaper upon

Thursday ,the 11 day of October 2007 ,
Thursday ,the 18 day of October 2007 ,
 _____ ,the _____ day of _____ 2007 ,
 _____ ,the _____ day of _____ 2007 ,
 _____ ,the _____ day of _____ 2007 ,
 _____ ,the _____ day of _____ 2007 ,
 _____ ,the _____ day of _____ 2007 ,

and that \$124.66 was charged for publishing the same

Betty Jones

Subscribed and sworn to before me 10/18/2007



J. Zimmerman

Notary Public, South Dakota

My Commission expires December 22, 2009

RECEIVED
 OCT 19 2007
 AIR QUALITY
 PROGRAM

State Notices

NOTICE OF APPLICATION
 NO. 6869-3 to Appropriate
 Water for Future Use

Notice is given that Lewis & Clark Rural Water System, 401 E 8th St, Suite 306, Sioux Falls SD 57103 has filed an application for a water permit to appropriate and reserve 8,700 acre-feet annually from the Missouri Elk Point Aquifer. The area to be reserved for future water use is located in Gov. Lots 1, 2, 3, and 4 of Section 16, Gov. Lots 1, 2, 3,

and 4 of Section 17, Gov. Lots 3, 4 and the SE1/4 Section 22, Gov. Lots 1, 2 and the W1/2 of Section 26, and the N1/2 of Section 27, including accretion lands thereto, all in T92N, R52W of the 5th P.M., Clay County. The water is to be reserved for the purpose of providing future water supplies for the Lewis and Clark Rural Water System which supplies 20 public water systems in Turner, Lincoln, Minnehaha, Union, Lake, Clay and McCook counties in South Dakota, as well as Rock and Noelle counties in Minnesota; and Lyons, Sioux, Osceola and O'Brien Counties in Iowa.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6869-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Fore Building, 523 E

Capitol, Pierre SD 57501 (605-773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by October 29, 2007.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pinner, Secretary, Department of Environment and Natural Resources.

1072820 Oct. 11 & 18, 2007

AFFIDAVIT OF PUBLICATION RECEIVED

STATE OF SOUTH DAKOTA }
County of Lake } ss.

OCT 24 2007

WATER RIGHTS PROGRAM

Sue Anne Artko of the City of Madison, County of Lake, State of South Dakota, being first duly sworn on oath, deposes and says:

The Madison Daily Leader is a daily legal newspaper of general circulation, printed and published in the City of Madison, in said County of Lake, by Hunter Publishing, Inc., Jon M. Hunter, publisher, and has been such legal newspaper during the times hereinafter mentioned; that the said Madison Daily Leader has been in existence as such legal newspaper for more than one year prior to the publication of the notice hereunto attached, and has during all of said time had, and how has, more than 200 bona fide subscribers; that the undersigned, the affiant, is the Secretary of the said newspaper, in charge of the advertising department thereof and has personal knowledge of all the facts stated in this affidavit and the advertisement headed

NOTICE OF APPLICATION NO. 6869-3 TO APPROPRIATE

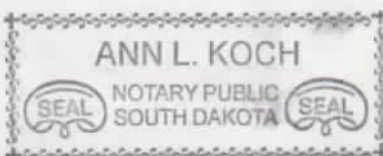
WATER FOR FUTURE USE

printed copy of which hereunto attached, was printed and published in the said newspaper for TWO successive weeks, once each week and on the same day of the week, on the following dates, to-wit:

On THURSDAY, the 11TH day of OCTOBER, 2007;
On THURSDAY, the 18TH day of OCTOBER, 2007;
On _____, the _____ day of _____, 20____;
On _____, the _____ day of _____, 20____;
On _____, the _____ day of _____, 20____;
On _____, the _____ day of _____, 20____;
On _____, the _____ day of _____, 20____;
On _____, the _____ day of _____, 20____;

That \$ 56.30 being the full amount of the fees for publication of the attached notice inures solely for the benefit of the publisher of the said newspaper; that no arrangement or understanding for a division thereof has been made with any other person and that no part thereof has been agreed to be paid to any other person whomsoever.

Subscribed and sworn to before me this 19TH day of OCTOBER, 2007



Ann L. Koch
Notary Public, Lake County, South Dakota

Thursday, Oct. 11 & 18

NOTICE OF APPLICATION NO. 6869-3 TO APPROPRIATE WATER FOR FUTURE USE

Notice is given that Lewis & Clark Rural Water System, 401 E. 8th Street, Suite 306, Sioux Falls, 57103 has filed an application for a water permit to appropriate and reserve 8,700 acre-feet annually from the Missouri: Elk Point Aquifer. The area to be reserved for future water use is located in Gov. Lots 1, 2, 3, and 4 of Section 16, Gov. Lots 1, 2, 3, and 4 of Section 17, Gov. Lots 3, 4 and the SE 1/4 Section 22, Gov. Lots 1, 2 and the W 1/2 of Section 26, and the N 1/2 of Section 27, including accretion lands thereto, all of T92N, R52W of the 5th PM., Clay County. The water is to be reserved for the purpose of providing future water supplies for the Lewis and Clark Rural Water System which supplies 20 public water systems in Turner, Lincoln, Minnehaha, Union Lake, Clay and McCook counties in South Dakota; as well as Rock and Nobels counties in Minnesota; and Lyons, Sioux, Osceola and O'Brien Counties in Iowa.

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STEVEN M. PIRNER

Secretary
Department of Environment
and Natural Resources

AFFIDAVIT OF PUBLICATION

State of South Dakota, County of Clay, ss.

Penny Tucker

Being first duly sworn, deposes and says: That he/she is a resident of the County of Clay and State of South Dakota; that

THE PLAIN TALK

is a legal newspaper of general circulation, printed and published in Vermillion, in said County and State, by Broadcaster Press, Inc., and is now and has been such newspaper continuously during all the times hereinafter mentioned; that affiant is and was during all the time hereinafter mentioned in charge of the advertising department thereof, and has personal knowledge of all the facts stated in this affidavit: and that the notice and advertisement headed:

NOTICE OF APPLICATION NO. 6869-3

TO APPROPRIATE WATER FOR FUTURE USE

a printed copy of which is hereunto attached and made a part hereof, was printed and published in the said newspaper at least once in each week

for 2 successive weeks; that said newspaper at the time of the first publication of said notice hereinafter stated, had, and still has, a bona fide circulation of over two-hundred paid copies weekly, and had been published in the said county of Clay for more than one year immediately prior to the date of the said publication of said notice, and that said newspaper during said times, was, and is, printed in part in an office maintained at said city of Vermillion, the said place of publication; that the first publication of said notice in said newspaper as aforesaid

was on Friday, the 12th day of October, 20 07, and that the succeeding publications were severally

on Friday, the 19th day of October, 20 07,

on Friday, the _____ day of _____, 20 _____,

on Friday, the _____ day of _____, 20 _____,

on Friday, the _____ day of _____, 20 _____,

that the fees charged for the printing and publication of the said notice and advertisement in said newspaper as aforesaid were

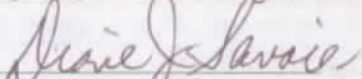
Fifty-one dollars and 84 cents

and that said fees for the printing and publishing of said notice and advertisement have been fully paid; that the full amount of the fee charged for the publishing of the said attached annexed notice and advertisement inures to the benefit of the publisher of the said newspaper, that no agreement or understanding for the division thereof has been made with any other person and that no part thereof has been agreed to be paid to any other person whomsoever.



Subscribed and sworn to before me

this 23rd day of October, 20 07



Exp. 9-5-2013

Notary Public

RECEIVED

OCT 25 2007

WATER RIGHTS
PROGRAM

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Steven M. Pirner, Secretary,
Department of Environment
and Natural Resources.
Publish: October 12 & 19, 2007

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)

County of Union) SSI, Susan Odson

certify that the attached printed Notice was taken

from the Leader-Courierprinted and published in Elk PointCounty of Union and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

October 11, 2007October 18, 2007Cost of Printing \$ 57.59Sus - Odson

(Signature)

Affidavits Coordinator

(Title)

10-17-07

(Date Signed)

**NOTICE OF APPLICATION
NO. 6869-3 TO
APPROPRIATE WATER
FOR FUTURE USE**

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Steven M. Pirner, Secretary,
Department of Environment and
Natural Resources.
Publish October 11 and 18, 2007
41-12-86

RECEIVED**OCT 29 2007****WATER RIGHTS
PROGRAM**

RECEIVED

NOV - 1 2007

WATER RIGHTS
PROGRAM

Affidavit of Publication

STATE OF SOUTH DAKOTA
COUNTY OF LINCOLN

JULIE GERBER

being first duly sworn on her oath says; that the Sioux Valley News is a legal weekly newspaper of general circulation as required by South Dakota Code of Nineteen Hundred Thirty-Nine, and any acts amendatory thereto, printed and published by the Sioux Valley News, Inc., in Canton, in said county and State, and has been such legal newspaper during the time hereinafter mentioned; that she is and during all of said time was bookkeeper of said newspaper and has personal knowledge of the facts stated in this affidavit; that the advertisement headed:

NOTICE OF APP 6869-3

a printed copy of which is hereto attached, was printed and published in said newspaper for **TWO** successive weeks upon the following dates, to-wit:

OCTOBER 11, 2007

OCTOBER 18, 2007

that the full amount of the fees charged for publishing the same to-wit: the sum of **\$42.30** insures solely to the benefit of the publishers of said newspaper; that no agreement or understanding for any division of this sum has been made with any other person; and that no part of said sum has been agreed to be paid to any person whomsoever.

Subscribed and sworn to before me this **18th** day of **OCTOBER, 2007**.

Notary Public, South Dakota

(Seal)



NOTICE OF APPLICATION NO. 6869-3 to Appropriate Water for Future Use

Notice is given that Lewis & Clark Rural Water System, 401 E. 8th St, Suite 306, Sioux Falls SD 57103 has filed an application for a water permit to appropriate and reserve 8,700 acre-feet annually from the Missouri: Elk Point Aquifer. The area to be reserved for future water use is located in Gov. Lots 1,2,3, and 4 of Section 16, Gov. Lots 1,2,3, and 4 of Section 17, Gov. Lots 3,4 and the SE1/4 Section 22, Gov. Lots 1,2 and the W1/2 of Section 26, and the N1/2 of Section 27, including accretion lands thereto, all in T92N, R52W of the 5th P.M., Clay County. The water is to be reserved for the purpose of providing future water supplies for the Lewis and Clark Rural Water System which supplies 20 public water systems in Turner, Lincoln, Minnehaha, Union, Lake, Clay and McCook counties in South Dakota; as well as Rock and Nobels counties in Minnesota; and Lyons, Sioux, Osceola and O'Brien Counties in Iowa.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6869-3 because 1) unappropriated waste is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605-773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by October 29, 2007.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources. (10-11,18)

Affidavit of Publication

STATE OF SOUTH DAKOTA } :SS
COUNTY OF TURNER _____ }

RECEIVED
NOV - 1 2007
WATER RIGHTS
PROGRAM

I, **Donna Rumbaugh** of the City of Parker, County of Turner, State of South Dakota, being first duly sworn on oath, deposes and says:

The New Era is a weekly legal newspaper of general circulation, printed and published in the City of Parker, in said County of Turner, by The New Era, Lyon Sioux Press, publishers, and has been such legal newspaper during the times hereinafter mentioned; that the said newspaper has been in existence as such legal newspaper for more than one year prior to the publication of the notice hereunto attached, and has during all of said publication of the notice hereunto attached, and has during all of said time had, and now has, more than 200 bona fide subscribers; that the undersigned, The affiant, is the **Office Manager** of the said newspaper, in charge of the advertisement department thereof and has personal knowledge of all the facts stated in this affidavit and the advertisement headed:

#4341 Notice of application No. 6869-3 to appropriate water for future use

printed copy of hereto attached, is printed and published in the said newspaper for two successive weeks, once each week and on the same day of the week, on the following dates, to-wit:

On Thursday, the 11th day of October, 2007

On Thursday, the 18th day of October, 2007

That \$65.45 being the full amount of the fees for publication

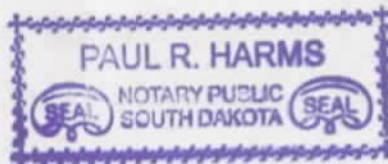
of the attached notice insures solely for the benefits of the publishers of the said newspaper, that no arrangement or understanding for a division thereof has been made with any other person and that no part thereof has been agreed to be paid to any other person whomsoever.

Donna Rumbaugh
Subscribed and sworn to before me this 23rd
Day of October, 2007
Paul R. Harms

My Commission
Expires:

02/10
2012

Notary Public, Turner County, South Dakota



Publication Fee \$

Notary Fees \$.

Total ..\$

65.45

Received Payment Date,

RECEIVED

NOV - 1 2007

WATER RIGHTS
PROGRAM

use is located in Gov. Lots 1, 2, 3, and 4 of Section 16, Gov. Lots 1, 2, 3, and 4 of Section 17, Gov. Lots 3, 4 and the SE 1/4 Section 22, Gov. Lots 1, 2 and the W1/2 of Section 26, and the N1/2 of Section 27, including accretion lands thereto, all in T92N, R52W of the 5th P.M., Clay County. The water is to be reserved for the purpose of providing future water supplies for the Lewis and Clark Rural Water System which supplies 20 public water systems in Turner, Lincoln, Minnehaha, Union, Lake, Clay and McCook counties in South Dakota; as well as Rock and Nobels counties in Minnesota; and Lyons, Sioux, Osceola and O'Brien Counties in Iowa.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6869-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre S.D. 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by October 29, 2007.

The petition may be informal, but must include a statement describing the

petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

(#4341, 10/11/07, 10/18/07, The New Era)

**Notice of application No.
6869-3 to appropriate
water for future use**

Notice is given that Lewis & Clark Rural Water System, 401 E 8th St, Suite 306, Sioux Falls SD 57103 has filed an application for a water permit to appropriate and reserve 8,700 acre-feet annually from the Missouri:ElkPoint Aquifer. The area to be reserved for future water

Public Notice

NOTICE OF APPLICATION NO. 6869-3 to Appropriate Water for Future Use

Notice is given that Lewis & Clark Rural Water System, 401 E. 8th St., Suite 306, Sioux Falls, SD 57103 has filed an application for a water permit to appropriate and reserve 8,700 acre-feet annually from the Missouri:Elk Point Aquifer. The area to be reserved for future water use is located in Gov. Lots 1, 2, 3, and 4 of Section 16, Gov. Lots 1, 2, 3, and 4 of Section 17, Gov. Lots 3, 4 and the SE 1/4 Section 22, Gov. Lots 1, 2 and the W 1/2 of Section 26, and the N 1/2 of Section 27, including accretion lands thereto, all in T92N, R52W of the 5th P.M., Clay County. The water is to be reserved for the purpose of providing future water supplies for the Lewis and Clark Rural Water System which supplies 20 public water systems in Turner, Lincoln, Minnehaha, Union, Lake, Clay and McCook Counties in South Dakota; as well as Rock and Nobles Counties in Minnesota; and Lyons, Sioux, Osceola and O'Brien Counties in Iowa.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6869-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E. Capitol, Pierre, SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by October 29, 2007.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

10/11,18c

Printer's Affidavit of Publication

AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA)

)SS

COUNTY OF McCOOK)

RECEIVED

NOV - 5 2007

WATER RIGHTS
PROGRAM

TROY SCHWANS of said County and State, being first duly sworn on his oath, says THE SALEM SPECIAL is a weekly newspaper of general circulation, printed and published in Salem, McCook County and State of South Dakota, and has been such newspaper during the times hereinafter mentioned; that the said newspaper is a legal newspaper, that it has a bonafide circulation of more than 200 copies weekly, that it has been published within said County of McCook for more than fifty-two successive weeks prior to the publication of the notice hereinafter mentioned and has been printed during said period and at the present time, in whole in an office maintained at said place of publication; and that I, the undersigned, am publisher or employee of said newspaper, in charge of the advertising department thereof, and have personal knowledge of all facts in this affidavit;

that the advertisement headed

*Notice of Application
6869-3*

a printed copy of which is hereto attached, was printed and published in the newspaper for 2 weeks; that said notice was published in the issues of said paper on the dates as follows, to wit:

The first publication being made on

Oct 11 2007

the second publication on

Oct 18 2007

the third publication on

20

the fourth publication on

20

the fifth publication on

20

the sixth publication on

20

and the last publication on

20

that \$53.38 being the full amount of the fees for publication of the annexed notice, insures solely to the benefit of the publisher of the said newspaper; that no agreement or understanding for a division thereof has been made with any person; and that no part thereof has been agreed to be paid to any person whomsoever.

Subscribed and sworn to before me this

31st

day of

October

20 *07*

Tamara E. Paulsen

Notary Public,

McCook

County

My commission expires

08-09-08



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

**RECOMMENDATION OF CHIEF ENGINEER FOR FUTURE USE WATER PERMIT
APPLICATION NO. 6869-3, Lewis and Clark Rural Water System**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Future Use Water Permit Application No. 6869-3, Lewis and Clark Rural Water System.

The Chief Engineer is recommending APPROVAL of Application No. 6869-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the applicant has demonstrated a reasonable need for the water reserved, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. Permit No. 6869-3 reserves 8700 acre feet of water annually from the Missouri:Elk Point Aquifer.
2. That Future Use Permit No. 6869-3 is approved with the stipulation that this Permit is subject to review by the Water Management Board in developing reserved water upon expiration of seven (7) years. This Permit shall be subject to cancellation if the Water Management Board determines during the review that the holder cannot demonstrate a reasonable need for the Permit.
3. At such time as definite plans are made to construct works and put the water reserved by this permit to beneficial use, specific application for all or any part of the reserved water must be submitted and approved prior to construction of facilities pursuant to SDCL 46-5-38.1.

See report on application for additional information.

Garland Erbele, Chief Engineer
October 4, 2007

REPORT ON WATER PERMIT APPLICATION NO. 6869-3
For Lewis and Clark RWS
August 21, 2007

Application No. 6869-3 requests a reservation of 8,700 acre-feet annually from the Missouri Elk Point aquifer. The area for this future use reservation is located in Gov. Lots 1, 2, 3, and 4 of Section 16, Gov. Lots 1, 2, 3, and 4 of Section 17, Gov. Lots 3, 4 and the SE1/4 Section 22, Gov. Lots 1, 2 and the W1/2 of Section 26, and the N1/2 of Section 27, including accretion lands thereto, all in T92N R52W of the 5th P.M., Clay County. The water is to be reserved for the purpose of providing future water supplies for the Lewis and Clark Rural Water System which will supply 20 public water systems in Turner, Lincoln, Minnehaha, Union, Lake, Clay and McCook Counties in South Dakota, Rock and Nobels counties in Minnesota and Lyons, Sioux, Osceola and O'Brien counties in Iowa.

AQUIFER – MISSOURI ELK POINT (M-EP)

The Missouri Elk Point is an alluvium mantled outwash (sand and gravel) under water table conditions in this area. The aquifer underlies 74,500 acres and contains an estimated 1.12 million acre-feet of recoverable water in storage in Clay County (Hedges, 1982). The aquifer is hydraulically connected to the Lower James Missouri aquifer in Yankton County, the Lower Vermillion Missouri in Clay County, extends into Union County to the east and Yankton County to the west and is also hydraulically connected to both the Missouri and Vermillion Rivers. Ground water movement is from west to east in the area of this application (Christensen, 1967). The proximity of this proposed future use area to the Missouri River will maintain the ground water levels as long as there is flow in the river.

The Water Rights Program monitors an observation well CL-80C located about two miles to the east and observation well CL-80G located about five miles to the north both from this future use area. Water levels for these wells show good response to climatic conditions, that is rising water levels during wet years (recharge) and gradually declining water levels during dry years. Hydrographs for these two observation wells are included with this report. In general, the water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2007).

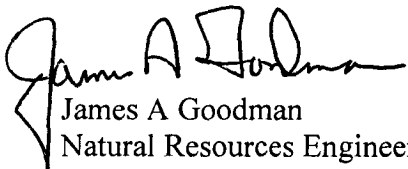
The hydrographs for the wells nearest the Missouri River also reveal interesting phenomena. The graphs show a decline in the water levels nearest the river since the late 1950's when record keeping began. This has been a slow steady process interrupted by wet climatic conditions of the mid 1980's and 1990's. It appears that the entrenching of the Missouri River is responsible for the phenomena. This concept was proposed as a reason for declining lake levels for McCook Lake in southern Union County (Iles, 1979). Other observation wells in Union, Clay and Yankton Counties located near the river exhibit the same general characteristics. However, observation wells located a few miles from the river show mainly the climatic effects without the drawdown caused by entrenching.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There are six existing water permits/right within a one-half mile distance of this future use area. Interference is not a concern. Drawdown created by pumping will be minimized by the Missouri River and it is not expected that any drawdown created will be adverse. The list of Water Permits/Rights are Nos. 5435-3, 6804-3, 2315-3, 2947-3, 5200-3, and 5412-3.

CONCLUSIONS

1. Water is available from the Missouri Elk Point aquifer for this future use reservation.
2. This is a future use permit and does not authorize construction of works. A new water permit application will be necessary to put this water to beneficial use.
3. Some of this water will be used in Minnesota and Iowa and this is acceptable under South Dakota water law.
4. This request is for 8,700 acre feet annually. Approval of this application would allow a total diversion of 35,700 acre-feet annually. This would include Water Permit 6736-3 (20,165 acre-feet), Future Use Permit No. 5832-3 (6,835 acre-feet remaining) plus this Future Use Permit No. 6869-3 (for 8,700 acre-feet).
5. Even though the Missouri River is in close proximity and is hydraulically connected to the aquifer this application is for groundwater.



James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

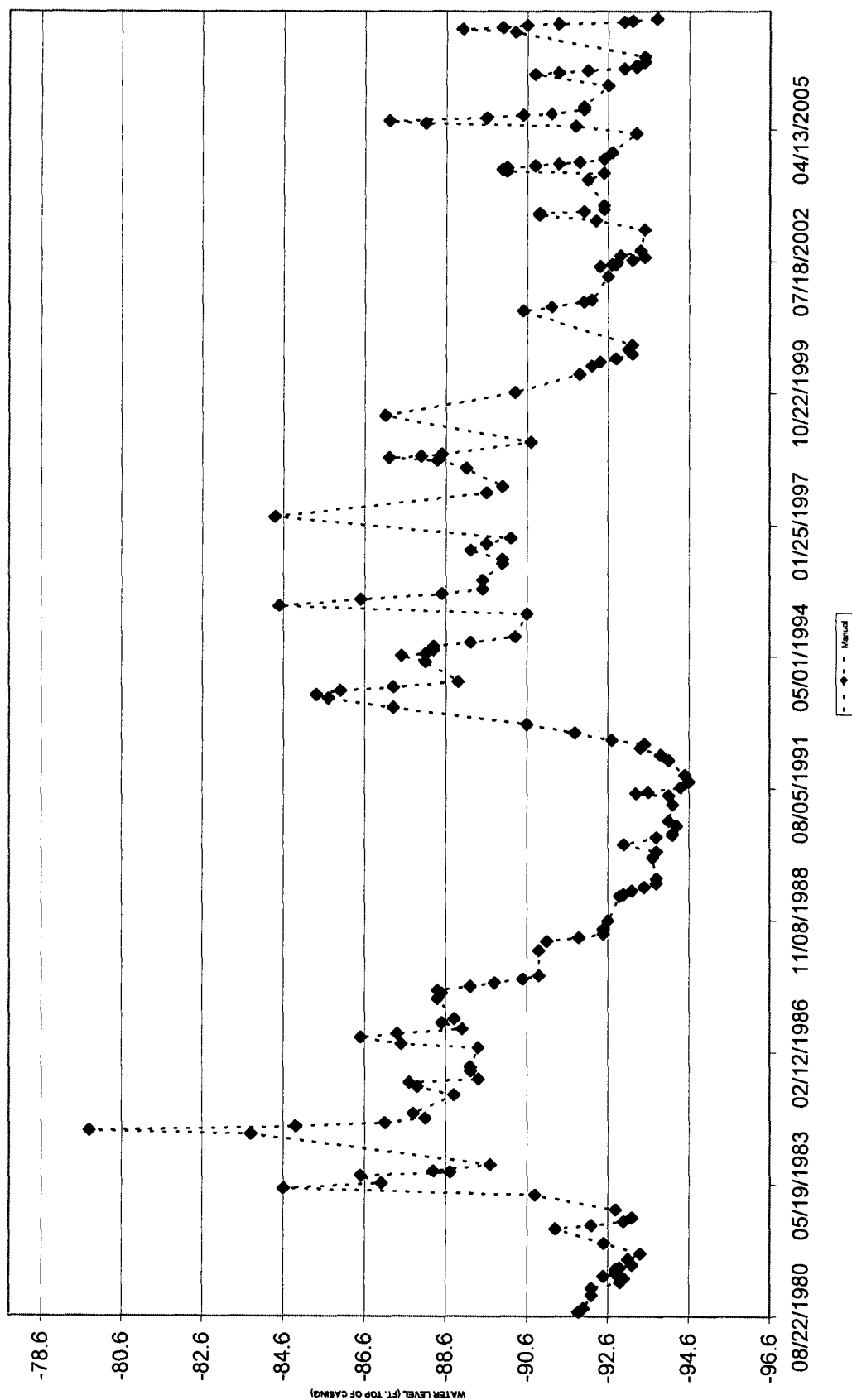
Christensen, C.M., J.C. Stephens, 1967, Geology and Water Resources of Clay County, South Dakota, Bulletin 19, SD DENR, SDGS, Vermillion, SD, 57069.

Hedges, L.S., and others, 1982, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

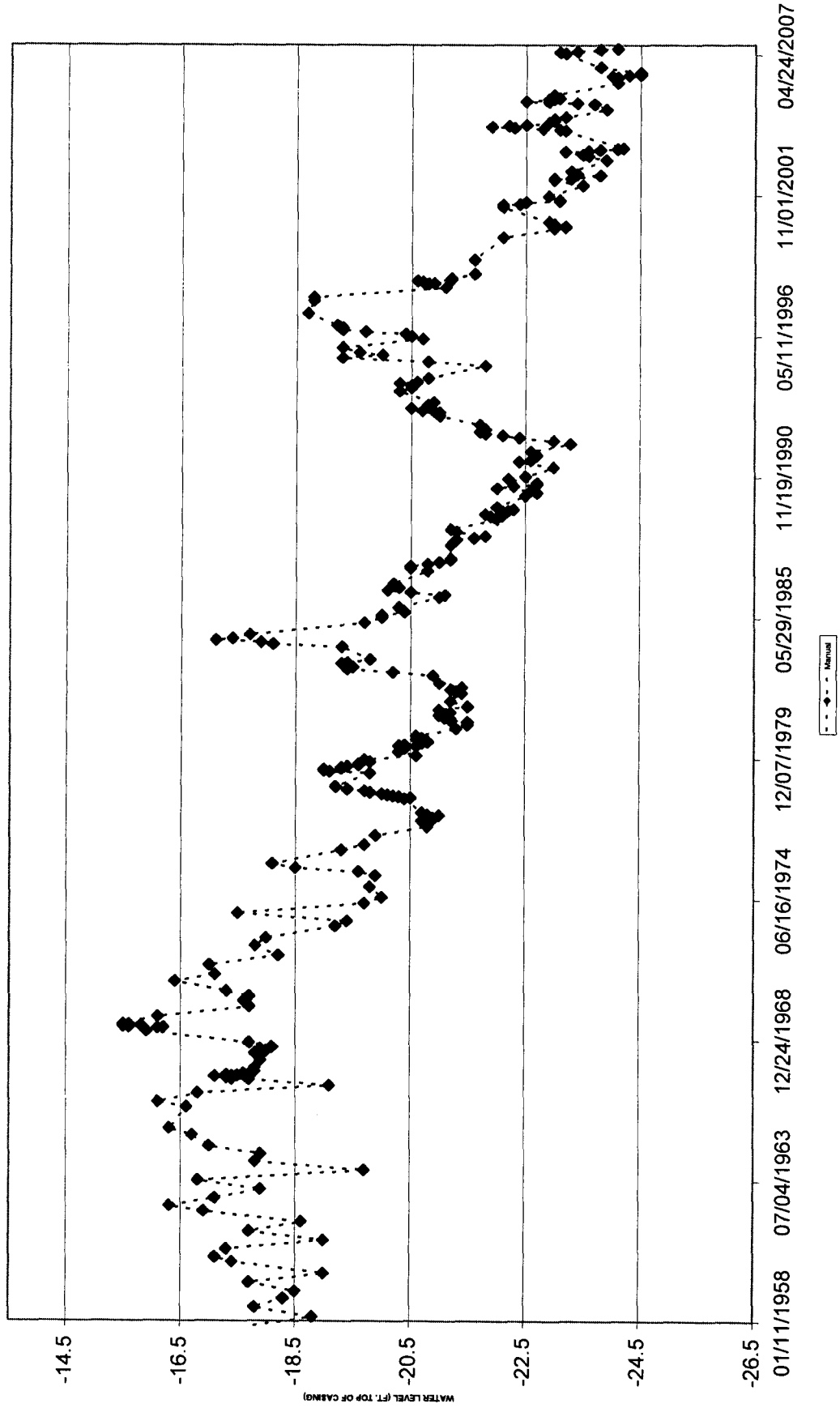
Iles, D.L., 1979, Ground-Water Study for Southern Union County, UR-28, SD DENR, SDGS, Vermillion, SD, 57069.

Water Rights, 2007, Unpublished Observation Well Data for the Missouri Elk Point Aquifer, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL
CL-80G



**WATER RIGHTS' OBSERVATION WELL
CL-80C**





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

MAY 07 2008

Lewis & Clark Rural Water System
401 E 8th St Ste. 306
Sioux Falls SD 57103

Dear Sirs:

Enclosed is Future Use Permit No. 6869-3, as approved by the Water Management Board.

When plans for facilities are prepared to put any portion of the water granted in the future use permits to beneficial use, an application covering such facilities and water use should be submitted to this office before construction is initiated.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosure



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

May 13, 2008

Lewis & Clark RWS
c/o Troy Larson
401 E 8th St
Sioux Falls SD 57103

Dear Mr. Larson:

I am writing in regard to Water Permit No. 6869-3 which the rural water system should have recently received. Last July, the application was submitted with a \$250 fee. The correct fee for the amount of water claimed is \$200. Therefore, \$50 will be refunded to the rural water system. The refund check should be received within the next couple of weeks.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak
Water Rights Program
605 773-3352

05/12/2008

PAYMENT REQUEST FORM

PAYEE: Lewis & Clark Rural Water System
Troy Larson
401 E 8th St # 306
Sioux Falls SD 57103

FROM: DENR Water Rights Program
523 E. Capitol Ave
Pierre, SD 57501-3181

DESCRIPTION OF SERVICE, PRODUCE OR TRANSFER

Refund on permit 6869-3

AMOUNT: \$50.00

FUNDING SOURCE:

GENERAL: X

FEDERAL:

COMMENTS:

AUTHORIZATION:

Barclay Ebel 5/12/08

I declare and affirm under the penalties of perjury that this claim is in all things, true and correct. I further agree to comply with the provisions of the Civil Rights Act of 1964 and regulations issued thereunder relating to nondiscrimination in federal assisted programs.

McMath, Genny

From: McMath, Genny
Sent: Tuesday, August 23, 2011 9:37 AM
To: McMath, Genny
Subject: FW: Lewis & Clark Rural Water Info Update

Water Permits this pertains to: 5832-3, 6736-3, 6869-3, 6869A-3, 7207-3, 7208-3

From: Froelich, Stacy
Sent: Tuesday, August 23, 2011 9:30 AM
To: DENR FINANCIAL & TECH ASSIST; DENR ENVIRONMENTAL SERVICES
Subject: Lewis & Clark Rural Water Info Update

Effective Monday, August 29, the mailing address will be 46986 Monty Street, Tea, SD 57064. Telephone lines will not be installed until Sept. 1. The calls to the office will be forwarded to a cell phone for a few days. **The new telephone number will be 605-368-2400 and our fax number will be 605-368-2800.** The e-mail addresses will not change.



6869-3
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

December 6, 2017

Lewis & Clark Regional Water System
c/o Troy Larson
46986 Monty St
Tea SD 57064

Dear Mr. Larson:

I am writing in regard to the seven year review of Future Use Water Permit Nos. 6869A-3 and 7208-3 from Missouri:Elk Point Aquifer held by the Lewis & Clark Regional Water System. By law, all future use permits are to be reviewed by the Water Management Board every seven years to determine whether a reasonable need exists for the reserved water. These permits reserve water for future water supply needs for the system. Currently, our records show that 3,535 acre-feet remain in reserve under Permit No. 6869A-3 and 9,465 acre-feet remain in reserve under Permit No. 7208-3. These permits were issued in 2011.

Please respond in writing by January 6, 2018 regarding the system's intention for the future use permits. If the system plans to retain the permits, then the response should outline a reasonable need for retaining the future use permits, including an estimate of future needs.

Permit Nos. 6869A-3 and 7208-3 will then be public noticed at the system's expense and scheduled for review before the Water Management Board pursuant to SDCL 46-5-38.1. Notice will be given of the hearing time and place at a future date. The purpose of this review is to determine if a reasonable need exists for retaining the permits. A fee will be charged if the Board allows the permits to remain in effect after the hearing. The fee to be assessed will be dependent upon the amount of water allowed to remain in reserve. If the entire 3,535 acre-feet remain in reserve for Permit No. 6869A-3, the fee will be \$355.00. If the entire 9,465 acre-feet remain in reserve for Permit No. 7208-3, the fee will be \$845.00 (\$1,200.00 total).

Please contact Eric Gronlund, if you have any questions.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
605 773-3352
karen.schlaak@state.sd.us

December 22, 2017

Karen Schlaak
SD Department of Environment & Natural Resources
Water Rights Program
523 East Capitol
Pierre, SD 57501-3182



RECEIVED

DEC 27 2017

**WATER RIGHTS
PROGRAM**

Dear Ms. Schlaak,

This letter is in response to your December 6, 2017 letter regarding the Water Management Board's seven year review of Future Use Water Permits Nos. 6869A-3 and 7208-3.

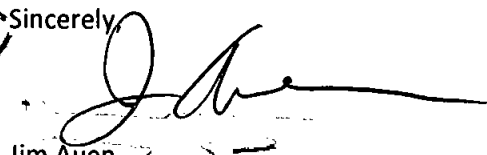
Lewis & Clark Regional Water (L&C) does intend to retain these permits. L&C is roughly 70% complete and we will definitely need these Future Use Permits in the coming years as we complete our system and new and existing members fully utilize their ability to receive water from L&C.

As I am sure you are aware, L&C is a vital water supplier to 14 public water systems in the tristate region, with six more public water systems to be connected in the coming years. L&C provides or will provide water to systems in Turner, Lincoln, Minnehaha, Union, Lake, Clay and McCook counties in South Dakota; as well as Rock and Nobles counties in Minnesota; and Lyon, Sioux, Osceola and O'Brien counties in Iowa. In order to supply these systems with their contracted amounts, L&C will need to construct water supply pumping capacity of approximately 49.6 million gallons per day (mgd).

Since we started delivering water to our first members in July of 2012, our production has increased exponentially. Our diversions from the Missouri: Elk Point aquifer by year have been: 2012 1.25 billion, 2013 3.05 billion, 2014 3.75 billion, 2015 5.08 billion and 2016 5.56 billion gallons of water. Currently, we have appropriated water rights that allow a diversion rate of roughly 34.53 mgd. Our peak day so far has been nearly 24 mgd. We will be appropriating the water available under the Future Use Water Permits as we connect more members and the existing members utilize more water from L&C. The timing of the L&C system completion is entirely dependent upon future federal funding for construction. Given recent levels of funding, our current estimate is that our system will be nearing completion in the year 2031.

Please let me know if you have any questions.

Sincerely,


Jim Auen
Operations Manager
Lewis & Clark Regional Water System
46986 Monty Street
Tea, SD 57064



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

**RECOMMENDATION OF CHIEF ENGINEER FOR FUTURE USE WATER PERMIT
NOS. 6869-3 and 6869A-3, Lewis & Clark Regional Water System**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Future Use Water Permit Nos. 6869-3 and 6869A-3, Lewis & Clark Regional Water System, Jim Auen, Operations Manager, 46986 Monty St, Tea SD 57064.

The Chief Engineer is recommending that Future Use Permit Nos. 6869-3 and 6869A-3 REMAIN in EFFECT for 3,535 acre-feet annually because 1) there is reasonable probability that there may be development of the water reserved under permits, 2) the system has demonstrated a reasonable need for the water reserved by the permits, 3) the proposed use will be a beneficial use and 4) it is in the public interest.

Maintaining the effectiveness of Future Use Permit Nos. 6869-3 and 6869A-3 are subject to payment of the \$355.00 fee pursuant to SDCL 46-2-13(2) within 60 days of notice to the system after the Board hearing.

Jeanne Goodman, Chief Engineer
January 17, 2018



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

January 17, 2018

NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATE, CONTACT
THE NEWSPAPERS RIGHT AWAY.

Lewis & Clark Regional Water System
Jim Auen, Operations Manager
46986 Monty St
Tea SD 57064

Dear Mr. Auen:

Future Use Permit Nos. 6869-3, 6869A-3 and 7208-3 will be reviewed for progress in the development and future plans for use of the water reserved. Water rights law requires publication of a notice the counties where water will be diverted or used. Notice of this review has been sent to the following papers:

- | | |
|--|--|
| ✕ New Era, Parker - 297-4419 | ✕ Sioux Valley News, Canton - 764-2000 |
| ✕ Argus Leader, Sioux Falls - 331-2200 | ✕ Leader-Courier, Elk Point - 356-2632 |
| ✕ Daily Leader, Madison - 256-4555 | ✕ Plain Talk, Vermillion - 624-2695 |
| ✕ Salem Special, Salem - 425-2361 | |

For your information, a copy of the Chief Engineer's recommendation is enclosed. Please review this notice prior to publication and notify this office, if you have any corrections or questions.

BE SURE TO CONTACT THE ABOVE NEWSPAPER(S) IMMEDIATELY TO AUTHORIZE PUBLICATION OF THE NOTICE OF HEARING AND TO ARRANGE FOR PAYMENT. Early contact with the papers can eliminate delays. The publishers have been instructed to publish this notice on January 25 or 26, 2018. We must receive Proof of Publication before the future use review can be considered by the Water Management Board.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

Instruction to Newspaper - Publish the following Notice on January 25, or 26, 2018. Lewis & Clark Regional Water System is responsible for payment.

NOTICE OF HEARING TO REVIEW FUTURE USE WATER PERMIT NOS. 6869-3, 6869A-3 and 7208-3

Notice is given that the Water Management Board will review Future Use Permit Nos. 6869-3, 6869A-3 and 7208-3 held by Lewis & Clark Regional Water System, c/o Jim Auen, Operations Manager, 46986 Monty St, Tea SD 57064 for progress made in the development of the water reserved and future plans for development of the water reserved by the permits.

Permit Nos. 6869-3 and 6869A-3 currently reserve 3,535 acre-feet from the Missouri:Elk Point Aquifer located in the S 1/4 Section 20, Lot A of Lot X, Lot X and acreage below Lots 3 and 4 Section 16, Lot A Section 22, The River Preserve Sections 22, 23, 26, 27 and Lots, 1, 2, 3, 4 and NW N&W Lot H1, Section 26; all in T92N, R52W; Lot A Missouri River Accretion Land NW 1/2 SW 1/4 Section 15, NW 1/4 Section 22, Sutherland Farm in Sections 10, 11, 14 and 15, Lot A Sutherland Farm, Lot D of Frost Tract 1 SW 1/4 and SE 1/4 Section 15, NW 1/4 NE 1/4 Section 22, Parcels X, Y Z of Lot H1 N 1/2 Section 15, Brewer Lot 1 and Lot 2 SW 1/4 and NW 1/4 Section 27, Brewer Lot 1 SW 1/4 Section 22, Blickle Lot 1 NW 1/4 Section 22 Blickle Lot 1 Lot H1, Section 21, Plowland Section 22 and 27, and Pasture Section 22; ALL in T32N, R04E and between Section 26 and 35 extending E HWY to N & S Dixon Line thence NE Section 24, T92N, R52W.

Permit No. 7208-3 was approved in 2011 and currently reserves 9,465 acre-feet from the Missouri:Elk Point Aquifer located in same area as described above.

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Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Program recommends that Permit Nos. 6869-3 and 6869A-3, combined REMAIN in EFFECT for 3,535 acre-feet annually and Permit No. 7208-3 REMAIN in EFFECT for 9,465 acre-feet annually because 1) the reserved water may be developed, 2) there is need for the reserved water 3) the proposed use will be a beneficial use and 4) it is in the public interest.

The Water Management Board will conduct the hearing to review Future Use Permit Nos. 6869-3, 6869A-3 and 7208-3 at 10:00 am on March 7, 2018 at Floyd Mathew Training Center, Joe Foss Bldg, 523 E Capitol, Pierre SD.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to 1) allow the permits to remain in effect, 2) amend the permits by adding qualifications, 3) cancel the permits for no development or no planned future development, or 4) take no action after it reaches a conclusion based upon facts presented at the public hearing.

Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the permit owner and the Chief Engineer by February 26, 2018. The Chief Engineer's address is "Water Rights Program", Joe Foss Building, 523 E Capitol Ave, Pierre SD 57501 (605 773-3352) and the permit holder's mailing address is given above. The petition may be informal, but it must include a statement describing the petitioner's interest in the future use permits, the reasons for petitioner's opposition to or support of continuing the future use permits, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The permit owner need not file a petition.

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Any person wishing a copy of the Chief Engineer's recommendations, further information on the permits, to assure access to the hearing by the handicapped or obtain an interpreter for the hearing impaired may contact Eric Gronlund, Water Rights Program, (605 773-3352) by February 26, 2018. The time of the hearing will be automatically delayed for at least 20 days upon written request of the permit owner or any person who has filed a petition to oppose or support continuance of the Future Use Permits. The request for a delay must be filed with the Chief Engineer by February 26, 2018.

According to SDCL 1-26-18.3, parties to a contested case may use the Office of Hearing Examiners to conduct a hearing if either a property right is being terminated or the dollar amount in controversy exceeds \$2,500.00. If any party chooses to use the Office of Hearing Examiners rather than the hearing procedure described above, then you need to notify the Chief Engineer (Water Rights Program 523 E Capitol Ave, Pierre SD) by February 5, 2018. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.
Published once at the approximate cost of_____.

Schlaak, Karen

From: Schlaak, Karen
Sent: Thursday, January 18, 2018 12:55 PM
To: classifieds@plaintalk.net
Subject: Lewis & Clark RWS
Attachments: 6869A-3.fu.doc; FORM8.FRM.doc

Attached is a notice to be published on January 26, 2018.

Lewis & Clark Regional Water System, c/o Jim Auen, Operations Manager, 46986 Monty St, Tea SD 57064 (605 368-2400) has been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP to the Water Rights Program, 523 E Capitol, Pierre SD 57501.

Let me know if you have questions. Please acknowledge receipt of this email.

Karen Schlaak

SD DENR, Water Rights Program
(605) 773-3352



Schlaak, Karen

From: Schlaak, Karen
Sent: Thursday, January 18, 2018 12:54 PM
To: G5 (leader1@iw.net)
Subject: Lewis & Clark RWS
Attachments: 6869A-3.fu.doc; FORM8.FRM.doc

Attached is a notice to be published on January 25, 2018.

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Karen Schlaak
SD DENR, Water Rights Program
(605) 773-3352



Schlaak, Karen

From: Schlaak, Karen
Sent: Thursday, January 18, 2018 12:54 PM
To: svn@siouxvalleynewsonline.com
Subject: Lewis & Clark RWS
Attachments: 6869A-3.fu.doc; FORM8.FRM.doc

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Karen Schlaak

SD DENR, Water Rights Program
(605) 773-3352



Schlaak, Karen

From: Schlaak, Karen
Sent: Thursday, January 18, 2018 12:53 PM
To: Salem Special / Troy Schwans (tschwans@triotel.net)
Subject: Lewis & Clark RWS
Attachments: 6869A-3.fu.doc; FORM8.FRM.doc

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Karen Schlaak

SD DENR, Water Rights Program
(605) 773-3352



Schlaak, Karen

From: Schlaak, Karen
Sent: Thursday, January 18, 2018 12:52 PM
To: Ann Koch (ann@madisondailyleader.com)
Subject: Lewis & Clark RWS
Attachments: 6869A-3.fu.doc; FORM8.FRM.doc

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Karen Schlaak

SD DENR, Water Rights Program
(605) 773-3352



Schlaak, Karen

From: Schlaak, Karen
Sent: Thursday, January 18, 2018 12:51 PM
To: allegals@argusleader.com
Subject: Lewis & Clark RWS
Attachments: 6869A-3.fu.doc; FORM8.FRM.doc

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SD DENR, Water Rights Program
(605) 773-3352



Schlaak, Karen

From: Schlaak, Karen
Sent: Thursday, January 18, 2018 12:50 PM
To: sebeling@ncppub.com
Subject: Lewis & Clark RWS
Attachments: 6869A-3.fu.doc; FORM8.FRM.doc

Attached is a notice to be published in the New Era on January 25, 2018.

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Karen Schlaak
SD DENR, Water Rights Program
(605) 773-3352



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JAN 29 2018

AFFIDAVIT OF PUBLICATION

Madison Daily Leader 1M

WATER RIGHTS
PROGRAM

Thursday, Jan. 25

AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA }
County of Lake } ss.

Aubrey Larsen of the City of Madison, County of Lake, State of South Dakota, being first duly sworn on oath, deposes and says:

The Madison Daily Leader is a daily legal newspaper of general circulation, printed and published in the City of Madison, in said County of Lake, by Hunter Publishing, Inc., Jon M. Hunter, publisher, and has been such legal newspaper during the times hereinafter mentioned; that the said Madison Daily Leader has been in existence as such legal newspaper for more than one year prior to the publication of the notice hereunto attached, and has during all of said time had, and how has, more than 200 bona fide subscribers; that the undersigned, the affiant, is the Secretary of the said newspaper, in charge of the advertising department thereof and has personal knowledge of all the facts stated in this affidavit and the advertisement headed

Lewis & Clark Regional Water System

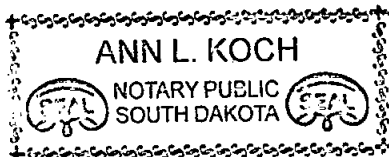
Hearing Future Use Water Permit Nos 6869-3 6869A-3 7208-3

printed copy of which hereunto attached, was printed and published in the said newspaper for One successive weeks, once each week and on the same day of the week, on the following dates, to-wit:

On Thursday, the 25th day of January, 2018;
On , the day of , 20;
On , the day of , 20;
On , the day of , 20;
On , the day of , 20;
On , the day of , 20;
On , the day of , 20;
On , the day of , 20;

That \$ 58.77 being the full amount of the fees for publication of the attached notice inures solely for the benefit of the publisher of the said newspaper; that no arrangement or understanding for a division thereof has been made with any other person and that no part thereof has been agreed to be paid to any other person whomsoever.

Subscribed and sworn to before me this 26th day of January, 2018



Ann L. Koch
Notary Public, Lake County, South Dakota

NOTICE OF HEARING
TO REVIEW FUTURE
USE WATER

PERMIT NOS. 6869-3, 6869A-3
and 7208-3

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In Court
County of

AFFIDAVIT OF PUBLICATION

Filed in the office of on the
..... day of
20

Attorneys for

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to 1) allow the permits to remain in effect, 2) amend the permits by adding qualifications, 3) cancel the permits for no development or no planned future development, or 4) take no action after it reaches a conclusion based upon facts presented at the public hearing.

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STEVEN M. PIRNER
Secretary, Department of
Environment and Natural
Resources

Published once at the total
approximate cost of \$58.77

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JAN 29 2018

WATER RIGHTS
PROGRAM

AFFIDAVIT OF PUBLICATION

PLAIN TALK

LEWIS & CLARK RURAL WATER SYSTEM
31474 SD HWY 19
VERMILLION SD 57069

STATE OF SOUTH DAKOTA
COUNTY OF CLAY

TERA SCHMIDT, BEING FIRST DULY SWORN ON OATH DEPOSES
AND SAYS THAT (S)HE IS THE CLASSIFIED MANAGER OF YANKTON
MEDIA INC, A CORPORATION, THE PRINTER AND THE PUBLISHER OF THE
PLAIN TALK, A LEGAL WEEKLY NEWSPAPER PUBLISHED AND CIRCULATED
IN THE CITY OF VERMILLION, SAID COUNTY AND STATE, AND ONE OF
THE OFFICIAL NEWSPAPERS OF THE SAID COUNTY OF FACTS STATED IN
THIS AFFIDAVIT; THAT THE ANNEXED
NOTICE OF HEARING TO REVI
6869-3, 6869A-3 & 7208-3
TAKEN FROM THE PAPER, IN WHICH IT WAS LAST PUBLISHED IN THE
NEWSPAPER ON THE 26th DAY OF January, 2018
THAT THE FULL AMOUNT OF THE FEE CHARGED FOR THE PUBLICATION
OF SAID NOTICE TO WIT \$54.99 ENSURES TO THE
BENEFITS OF THE PUBLISHER OF SAID NEWSPAPER AND THAT NO
AGREEMENT AND UNDERSTANDING FOR THE DIVISION THEREOF HAS
BEEN MADE WITH ANY OTHER PERSON, AND THAT NO PART THEREOF
HAS BEEN AGREED TO BE PAID TO ANY PERSON WHOMSOEVER.

PUBLISHED ON: 01/26/2018

FILED ON: 01/26/2018

Tera A Schmidt

SUBSCRIBED AND SWORN TO BEFORE ME THIS 26th DAY OF January, 2018

Bryan Schild

NOTARY PUBLIC, SOUTH DAKOTA

MY COMMISSION EXPIRES 08/19/2021

Ad text : NOTICE OF HEARING
TO REVIEW FUTURE USE WATER PERMIT NOS.
6869-3, 6869A-3 and 7208-3

RECEIVED
JAN 29 2018
WATER RIGHTS
PROGRAM

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Published once at the total approximate cost of \$54.99.
Publish: January 26, 2018.

RECEIVED

JAN 29 2018

**WATER RIGHTS
PROGRAM**

STATE OF SOUTH DAKOTA)
) SS
County of McCook)

certify that the attached printed Notice was
taken

County of McCook and

in the newspaper on the following date:

Cost of Printing \$56.62


(Signature)
Troy Schwans

Owner _____
(Title)

January 26, 2018
(Date Signed)

RECEIVED
JAN 29 2018
WATER RIGHTS
PROGRAM

Public Notice

NOTICE OF HEARING TO REVIEW FUTURE USE WATER PERMIT NOS. 6869-3, 6869A-3 and 7208-3

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Any person wishing a copy of the Chief Engineer's recommendations, further information on the permits, to assure access to the hearing by the handicapped or obtain an interpreter for the hearing impaired may contact Eric Gronlund, Water Rights Program, (605 773-3352) by February 26, 2018. The time of the hearing will be automatically delayed for at least 20 days upon written request of the permit owner or any person who has filed a petition to oppose or support continuance of the Future Use Permits. The request for a delay must be filed with the Chief Engineer by February 26, 2018.

According to SDCL 1-26-18.3, parties to a contested case may use the Office of Hearing Examiners to conduct a hearing if either a property right is being terminated or the dollar amount in controversy exceeds \$2,500.00. If any party chooses to use the Office of Hearing Examiners rather than the hearing procedure described above, then you need to notify the Chief Engineer (Water Rights Program 523 E Capitol Ave, Pierre SD) by February 5, 2018. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Published once at the total approximate cost of \$56.62.

AFFIDAVIT OF PUBLICATION

State of South Dakota)
:ss
County of Union)

Bruce L. Odson,

the publisher of the Leader-Courier, deposes and says that

The Leader-Courier

is a legal weekly newspaper of a general circulation, printed and published in Elk Point, County of Union, State of South Dakota, and has been such legal newspaper during the time hereinafter mentioned, and that affiant is and was during all the time hereinafter mentioned in charge of the advertising department thereof, and has personal knowledge of all the facts stated in this affidavit: and that the notice and advertisement headed:

Notice of Hearing to Review

Future Use Water Permit Nos. 6869-3, 6869A-3, 7208-3

a printed copy of which is hereunto attached and made a part hereof, was printed and published in the said newspaper at least once in

each week for 1 successive weeks; that said newspaper at the time of the first publication of said notice hereinafter stated, had, and still has, a bona fide circulation of over two hundred paid copies weekly, and had been published in the said County of Union for more than one year immediately prior to the date of the said publication of said notice, and that said newspaper during said times, was, and is, printed in part in an office maintained at said city of Elk Point, the said place of publication; that the first publication of said notice in said newspaper was

on Thursday, the 25 day of January, 2018

and that the succeeding publications were

on Thursday, the _____ day of _____, _____

on Thursday, the _____ day of _____, _____

on Thursday, the _____ day of _____, _____

that the fees for the printing and publishing of said notice and advertisement in said newspaper as aforesaid were

\$ 56.85, that the full amount of the fee charged insures to the benefit of the publisher of the said newspaper, that no agreement or understanding for the division thereof has been made with any other person and that no part thereof has been agreed to be paid to any other person whomsoever.



Subscribed and sworn to before me

this 25 day of January, 2018

My commission expires 7-12-23

SUSAN ODSON
NOTARY PUBLIC
SOUTH DAKOTA

Notary Public

NOTICE OF HEARING TO REVIEW FUTURE USE WATER PERMIT NOS. 6869-3, 6869A-3 AND 7208-3

Notice is given that the Water Management Board will review Future Use Permit Nos. 6869-3, 6869A-3 and 7208-3 held by Lewis & Clark Regional Water System, c/o Jim Auen, Operations Manager, 46986 Monty St, Tea SD 57064 for progress made in the development of the water reserved and future plans for development of the water reserved by the permits.

Permit Nos. 6869-3 and 6869A-3 currently reserve 3,535 acre-feet from the Missouri:Elk Point Aquifer located in the S 1/4 Section 20, Lot A of Lot X, Lot X and acreage below Lots 3 and 4 Section 16, Lot A Section 22, The River Preserve Sections 22, 23, 26, 27 and Lots, 1, 2, 3, 4 and NW N&W Lot H1, Section 26; all in T92N, R52W; Lot A Missouri River Accretion Land NW 1/2 SW 1/4 Section 15, NW 1/4 Section 22, Sutherland Farm in Sections 10, 11, 14 and 15, Lot A Sutherland Farm, Lot D of Frost Tract 1 SW 1/4 and SE 1/4 Section 15, NW 1/4 NE 1/4 Section 22, Parcels X, Y Z of Lot H1 N 1/2 Section 15, Brewer Lot 1 and Lot 2 SW 1/4 and NW 1/4 Section 27, Brewer Lot 1 SW 1/4 Section 22, Bickel Lot 1 NW 1/4 Section 22 Bickel Lot 1 Lot H1, Section 21, Plowland Section 22 and 27, and Pasture Section 22; ALL in T32N, R04E and between Section 26 and

35 extending E HWY to N & S Dixon Line thence NE Section 24, T92N, R52W.

Permit No. 7208-3 was approved in 2011 and currently reserves 9,465 acre-feet from the Missouri:Elk Point Aquifer located in same area as described above.

Lewis & Clark Regional Water System provides water to systems in Turner, Lincoln, Minnehaha, Union, Lake, Clay and McCook counties in South Dakota; as well as Rock and Nobles counties in Minnesota; and Lyons, Sioux, Osceola and O'Brien counties in Iowa.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Program recommends that Permit Nos. 6869-3 and 6869A-3, combined REMAIN in EFFECT for 3,535 acre-feet annually and Permit No. 7208-3 REMAIN in EFFECT for 9,465 acre-feet annually because 1) the reserved water may be developed, 2) there is need for the reserved water 3) the proposed use will be a beneficial use and 4) it is in the public interest.

The Water Management Board will conduct the hearing to review Future Use Permit Nos. 6869-3, 6869A-3 and 7208-3 at 10:00 am on March 7, 2018 at Floyd Mathew Training Center, Joe Foss Bldg, 523 E Capitol, Pierre SD.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to 1) allow the permits to remain in effect, 2) amend the permits by adding qualifications, 3) cancel the permits for no development or no planned

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PROGRAM

future development, or 4) take no action after it reaches a conclusion based upon facts presented at the public hearing.

Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the permit owner and the Chief Engineer by February 26, 2018. The Chief Engineer's address is "Water Rights Program", Joe Foss Building, 523 E Capitol Ave, Pierre SD 57501 (605 773-3352) and the permit holder's mailing address is given above. The petition may be informal, but it must include a statement describing the petitioner's interest in the future use permits, the reasons for petitioner's opposition to or support of continuing the future use permits, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The permit owner need not file a petition.

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Published once at the total approximate cost of \$56.85
4-4-185

130379

CUSTOMER NUMBER:	78306	Argus Leader P.O. Box 677349, Dallas, TX 75267-7349
INVOICE NUMBER:	2675764	
RUN DATES:	1/25, 2018	
		AMOUNT DUE: \$128.94 pd.

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WATER RIGHTS PROGRAM

Attn: Karen Schlaak
 Water Rights Program
 523 E. Capital - Jose Foss Building
 Pierre, SD 57501-0000

DETACH THIS STUB AND RETURN WITH PAYMENT

PAYMENT DUE UPON RECEIPT

AFFIDAVIT OF PUBLICATION-

Customer Number: 78306
 Invoice Number: 902065

523 E. Capital - Jose Foss Building

Argus Leader

AFFIDAVIT OF PUBLICATION

STATE OF SOUTH DAKOTA

COUNTY OF MINNEHAHA } ss

Sara Kruse being duly sworn, says: That The **Argus Leader** is, and during all the times hereinafter mentioned was, a daily legal newspaper as defined by SDCL 17-2-2.1, as amended published at Sioux Falls, Minnehaha County, South Dakota; that affiant is and during all of said times, was an employee of the publisher of such newspaper and has personal knowledge of the facts stated in this affidavit; that the notice, order or advertisement, a printed copy of which is hereto attached, was published in said newspaper upon

Thursday	the	25	day of	January	2018	,
	the		day of		2018	,
	the		day of		2018	,
	the		day of		2018	,
	the		day of		2018	,
	the		day of		2018	,
	the		day of		2018	,

and that \$128.94 pd. was charged for publishing the same

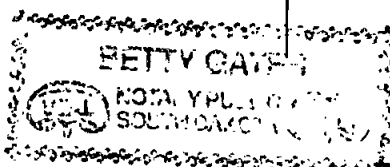
Sara Kruse

Subscribed and sworn to before me 1/25/18

Betty Gates

Notary Public, South Dakota

My Commission expires March 11, 2022



NOTICE OF HEARING TO REVIEW FUTURE USE WATER PERMIT NOS. 6869-3, 6869A-3 AND 7208-3

Notice is given that the Water Management Board will review Future Use Permit Nos. 6869-3 and 7208-3 held by Lewis & Clark Regional Water System, c/o Jim Auen, Operations Manager, 46786 Monty St, Tea SD 57064 for progress made in the development of the water reserved and future plans for development of the water reserved by the permits.

Permit Nos. 6869-3 and 6869A-3 currently reserve 3,535 acre-feet from the Missouri: Elk Point Aquifer located in the S 1/4 Section 20, Lot A of Lot X, Lot X and acreage below Lots 3 and 4 Section 16, Lot A Section 22, The River Preserve Sections 22, 23, 26, 27 and Lots, 1, 2, 3, 4 and NW 1/4 Lot H1, Section 26; all in T92N, R52W; Lot A Missouri River Accretion Land NW 1/2 SW 1/4 Section 15, NW 1/4 Section 22, Sutherland Farm in Sections 10, 11, 14 and 15, Lot A Sutherland Farm, Lot D of Frost Tract 1 SW 1/4 and SE 1/4 Section 15, NW 1/4 NE 1/4 Section 22, Parcels X, Y, Z of Lot H1 N 1/2 Section 15, Brewer Lot 1 and Lot 2 SW 1/4 and NW 1/4 Section 27; Brewer Lot 1 SW 1/4 Section 22, Blickle Lot 1 NW 1/4 Section 22 Blickle Lot 1 Lot H1, Section 21, Plowland Section 22 and 27, and Pasture Section 22; ALL in T32N, R04E and between Section 26 and 35 extending E HWY to N & S Dixon Line thence NE Section 24, T92N, R52W.

Permit No. 7208-3 was approved in 2011 and currently reserves 9,465 acre-feet from the Missouri: Elk Point Aquifer located in same area as described above.

Lewis & Clark Regional Water System provides water to systems in Turner, Lincoln, Minnehaha, Union, Lake, Clay and McCook counties in South Dakota; as well as Rock and Nobles counties in Minnesota; and Lyons, Sioux, Osceola and O'Brien counties in Iowa.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Program recommends that Permit Nos. 6869-3 and 6869A-3, combined REMAIN in EFFECT for 3,535 acre-feet annually and Permit No. 7208-3 REMAIN in EFFECT for 9,465 acre-feet annually because 1) the reserved water may be developed, 2) there is need for the reserved water 3) the proposed use will be a beneficial use and 4) it is in the public interest. The Water Management Board will conduct the hearing to review Future Use Permit Nos. 6869-3, 6869A-3 and 7208-3 at 10:00 am on March 7, 2018 at Floyd Mathew Training Center, Joe Foss Bldg, 523 E Capitol, Pierre SD. The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to 1) allow the permits to remain in effect, 2) amend the permits by adding qualifications, 3) cancel the permits for no development or no planned future development, or 4) take no action after it reaches a conclusion based upon facts presented at the public hearing.

Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the permit owner and the Chief Engineer by February 26, 2018. The Chief Engineer's address is "Water Rights Program", Joe Foss Building, 523 E Capitol Ave, Pierre SD 57501 (605 773-3352) and the permit holder's mailing address is given above. The petition may be informal, but it must include a statement describing the petitioner's interest in the future use permits; the reasons for petitioner's opposition to or support of continuing the future use permits; and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The permit owner need not file a petition.

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According to SDCL 1-26-18.3, parties to a contested case may use the Office of Hearing Examiners to conduct a hearing if either a property right is being terminated or the dollar amount in controversy exceeds \$2,500.00. If any party chooses to use the Office of Hearing Examiners rather than the hearing procedure described above, then you need to notify the Chief Engineer (Water Rights Program 523 E Capitol Ave, Pierre SD) by February 5, 2018. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Published once at the approximate cost of \$128.94. 2675764 Jan. 25, 2018



Affidavit of Publication

STATE OF SOUTH DAKOTA
COUNTY OF LINCOLN

RECEIVED
JAN 29 2018
WATER RIGHTS
PROGRAM

ANDY WILCOX

being first duly sworn on his oath says; that the Sioux Valley News is a legal weekly newspaper of general circulation as required by South Dakota Code of Nineteen Hundred Thirty-Nine, and any acts amendatory thereto, printed and published by the Sioux Valley News, Inc., in Canton, in said county and State, and has been such legal newspaper during the time hereinafter mentioned; that he is and during all of said time was publisher of said newspaper and has personal knowledge of the facts stated in this affidavit; that the advertisement headed:

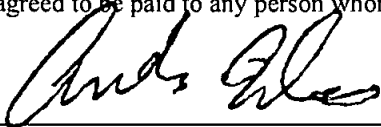
Notice of Hearing

Water Permit NO. 6869-3, 6869A-3, 7208-3

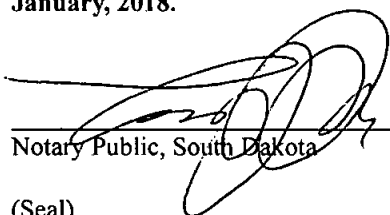
a printed copy of which is hereto attached, was printed and published in said newspaper for ONE successive week(s) upon the following dates, to-wit:

January 25, 2018

that the full amount of the fees charged for publishing the same to-wit: the sum of \$57.47 inures solely to the benefit of the publishers of said newspaper; that no agreement or understanding for any division of this sum has been made with any other person; and that no part of said sum has been agreed to be paid to any person whomsoever.



Ascribed and sworn to before me this 25th day of
January, 2018.



Notary Public, South Dakota

(Seal)



NOTICE OF HEARING TO REVIEW FUTURE USE WATER PERMIT NOS. 6869-3, 6869A-3 and 7208-3

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Pursuant to SDCL 46-2A-2 the Chief

Engineer of the Water Rights Program recommends that Permit Nos. 6869-3 and 6869A-3, combined REMAIN in EFFECT for 3,535 acre-feet annually and Permit No. 7208-3 REMAIN in EFFECT for 9,465 acre-feet annually because 1) the reserved water may be developed, 2) there is need for the reserved water 3) the proposed use will be a beneficial use and 4) it is in the public interest.

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The hearing to review Future Use Permit Nos. 6869A-3 and 7208-3 will be conducted pursuant to the provisions

My Commission Expires
December 9, 2020

of SDCL 46-1-14, 46-2-5, 46-2-9, 46-2-11, 46-5-38.1; Board Rules ARSD 74:02:01:25.01 thru 74:02:01:25.03 and contested case procedures contained in SDCL 1-26.

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Published in the Sioux Valley News on January 25, 2018, at the total approximate cost of \$57.47.

Form 8

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JAN 31 2018
WATER RIGHTS
PROGRAM

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Turner) SS

I, Dawn Rye

certify that the attached printed Notice was taken

from the New Century Press,
publisher

printed and published in The New Era

County of Turner and

state of South Dakota. The notice was published

in the newspaper on the following date:

Thurs. Jan. 25, 2018

Cost of Printing \$71.16

Dawn Rye

(Signature)

Office manager

(Title)

1/25/18

(Date Signed)

**Notice of hearing to review
future use water permit
NOS. 6869-3, 6869A-3 and
7208-3**

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of Hearing Examiners rather than the hearing procedure described above, then you need to notify the Chief Engineer (Water Rights Program 523 E Capitol Ave, Pierre SD) by Monday, Feb. 5. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Published once at the approximate cost of \$71.16

(N0125-3)



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

March 8, 2018

NOTICE OF ENTRY OF ORDER

Lewis & Clark Regional Water System
Jim Auen, Operations Manager
46986 Monty St
Tea SD 57064

Dear Mr. Auen:

I am writing in response to action taken by the Water Management Board at the hearing on March 7, 2018 to review Future Use Permit Nos. 6869-3, 6869A-3 and 7208-3. The Board allowed the permits to remain in effect for 3,535 acre-feet of water annually and 9,465 acre-feet of water annually. The future use permits are subject to another review in seven years.

The fee for maintaining the effectiveness of Future Use Permit Nos. 6869-3 and 6869A-3 is \$355.00 and No. 7208-3 is \$845.00 (total \$1,200.00) pursuant to SDCL 46-2-13(2). Please remit the fee within 60 days.

Please contact Eric Gronlund, staff engineer, if you have any questions.

Sincerely,

A handwritten signature in black ink that reads "Jeanne Goodman". The signature is fluid and cursive, with the first name "Jeanne" being more prominent than the last name "Goodman".

Jeanne Goodman, Chief Engineer
Water Rights Program
605 773-3352

CERTIFICATION

I hereby certify that on March 8, 2018, I have personally deposited with the United States mail at Pierre, South Dakota, first class postage, prepaid envelopes containing a Notice of Entry of Order dated March 8, 2018 addressed as stated below:

Jay Gilbertson
East Dakota Water Development District
132B Airport Dr.
Brookings SD 57006

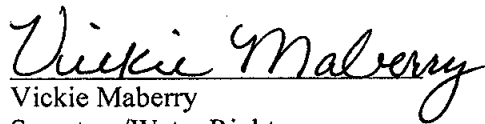
Clay Rural Water System
c/o Greg Merrigan, Manager
30376 SD Hwy 19
Wakonda SD 57073

City of Parker
Adam Jans, Finance Officer
PO Box 265
Parker SD 57053

South Lincoln Rural Water System Inc
c/o Tom Rausch, Manager
28647 472nd Ave
Beresford SD 57004

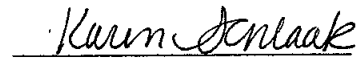
Wendy Rausch, Finance Officer
City of Hoven
PO Box 157
Hoven SD 57450

Lewis & Clark Regional Water System
Jim Auen, Operations Manager
46986 Monty St
Tea SD 57064


Vickie Maberry
Secretary/Water Rights

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF HUGHES)

Sworn to, before me, this 8th day of March, 2018.


Karen Schlaak
Notary Public
My Commission expires April 1, 2019

