

**WATER PERMIT NO. 7219-3**

Name of Applicant: Elkton Public School District

Address: 508 Buffalo St, Elkton SD 57026 Phone: 605 542-2541

Amount of Water Claimed: 0.178 cfs Total Acres: 2.3

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation County: Brookings

Type of Waste Disposal System:

Location: Elkton

PRIORITY Date Received: 10-6-10

Application/License Fee: \$700

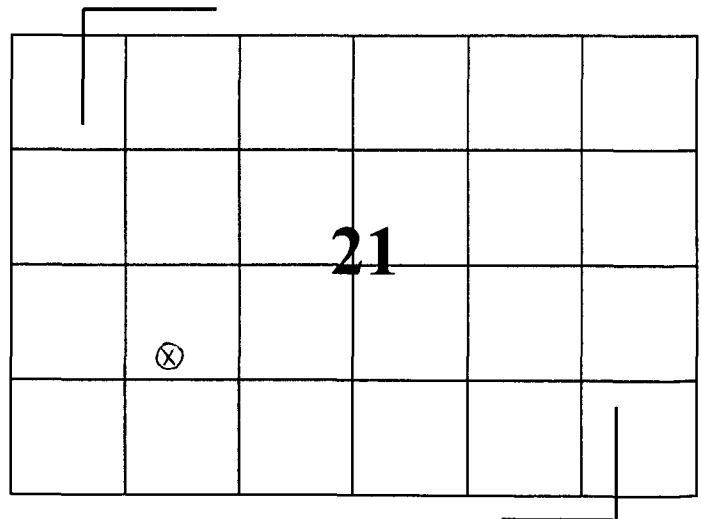
Corrected Application Received: 11-1-10

Period of Annual Use: April 1 – November 30

Remarks: football field

Diversion Point: NW ¼ SW ¼ Sec 21-T109N-  
R47W

Land to be Irrigated: NW ¼ SW ¼ Sec 21-T109N-  
R47W



Depth of Well: 36 feet deep

Well Driller: Kaiser Well Drilling

Remarks:

Type of Map: plat

Prepared by: Jason D Petersen, PE

Reviewed and the Number Assigned on: 11-1-10

By: Karen Schlaak

Notice of Hearing - date to intervene: \_\_\_\_\_

## FORM 2: Application for irrigation in South Dakota

(type or print)

|                                                                                                                 |                                                                      |
|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|
| Mail to:<br>PMB 2020<br>DENR - Water Rights<br>523 E Capitol Ave<br>Pierre, SD 57501-3182<br>ph. (605) 773-3352 | No. <u>7219-3</u> (office use only ) Hydrologic Unit <u>10170203</u> |
|                                                                                                                 | Basin <u>Sioux River</u>                                             |
|                                                                                                                 | Newspaper <u>Brookings Register PO Box 177</u>                       |
|                                                                                                                 | <u>605-692-6271</u> <u>57806</u>                                     |

RECEIVED

OCT - 6 2010

WATER RIGHTS  
PROGRAM

## Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. \_\_\_\_\_  
(Use predates Mar 2, 1955)

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

1. Name of Applicant ELKTON PUBLIC SCHOOL DISTRICT Phone 605-542-2541  
(check one) ☒ Owner ☐ Tenant/lessee  
Mailing Address 508 BUFFALO STREET ELKTON SD 57026  
(Address) (City) (State) (Zip Code)
2. Amount of water claimed 0.178\*CFS or 80 \*\*GPM \*\*\*AF Total Acreage 2.3  
(\*Cubic Feet per Second) (\*\*Gallons per Minute) (\*\*Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply NEW WELL
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County ELKTON Brookings  
1 WELL IN SE1/4 SW1/4 SECTION 21-T109N-R47W  
NW 1/4
5. County or counties where water will be used \_\_\_\_\_
6. Annual period during which water is to be used APRIL THRU NOVEMBER 30
7. List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.  
(Attach sheet if more space is needed)

| Land Description                       | Acres      | Land Description | Acres |
|----------------------------------------|------------|------------------|-------|
| <u>NW 1/4 SW 1/4 Sec 21 T109N R47W</u> | <u>2.3</u> |                  |       |
|                                        |            |                  |       |
|                                        |            |                  |       |
|                                        |            |                  |       |

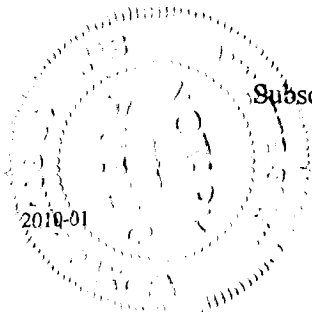
8. Give a description of the project. (Attach sheet if more space is needed)

This well is located on a site for the Elkton School District that is intended for the sole purpose to irrigate a newly constructed football playing field.

STATE OF SOUTH DAKOTA )  
County of Brookings ) SS

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

I, Tony Simons, 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 Tony SimonsSubscribed and sworn to before me this 1st day of October 20 10Notary Public signature [Signature] 8-2012

**SOUTH DAKOTA  
WATER PERMIT NO. 7219-3**

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Date of first receipt of application October 6, 2010.

Date of return to applicant for corrections, amendments or changes October 7, 2010.

Date of receipt of corrected application November 1, 2010.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7219-3 to Elkton Public School District, 508 Buffalo Street, Elkton SD 57026 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 7219-3 appropriates 0.178 cubic feet of water per second from one well completed into the Big Sioux:Aurora Aquifer (36 feet deep) located in NW 1/4 SW 1/4 Section 21 for irrigation of 2.3 acres located in the NW 1/4 SW 1/4 Section 21; all in T109N-R47W (football field).
2. The amount of the appropriation may not exceed 3 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 1 – November 30.
3. The date from which applicant may claim right is October 6, 2010.
4. The date of approval of Permit No. 7219-3 is January 31, 2011.
5. One-fifth of the construction is to be completed on or before July 31, 2013.
6. All construction is to be completed on or before January 31, 2016.
7. Water is to be put to beneficial use on or before January 31, 2020.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

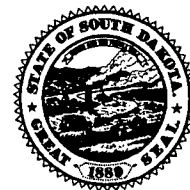
**QUALIFICATIONS**

1. The well approved will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. Pursuant to SDCL 46-5-6 which allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires, Permit No. 7219-3 authorizes a maximum diversion rate of 0.178 cfs for the irrigation of 2.3 acres with an annual volume not to exceed 3 acre feet of water per acre per year.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

**WATER MANAGEMENT BOARD**

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

MAR 03 2011  
date





# Irrigation

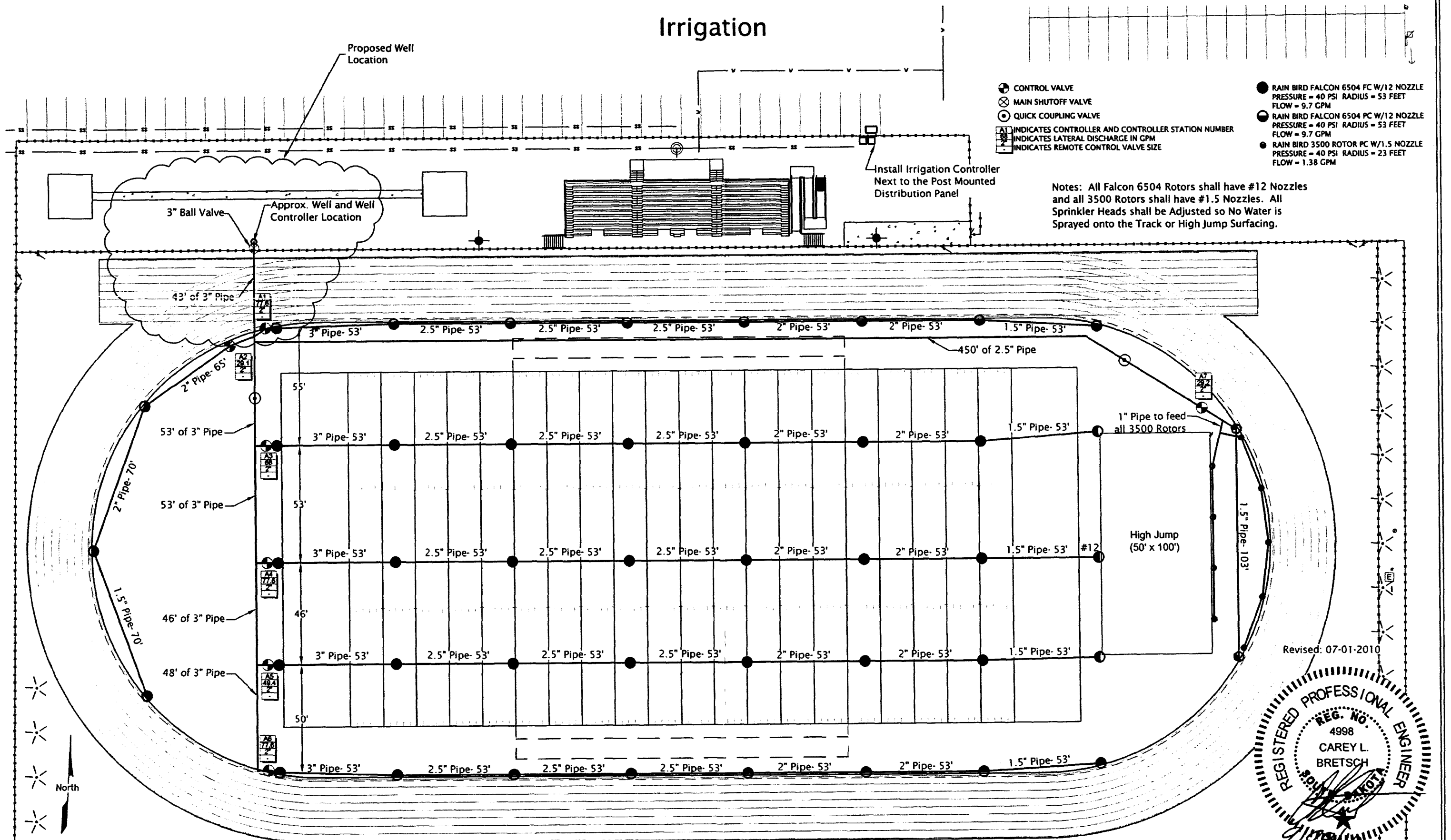
Proposed Well Location

- CONTROL VALVE
- ⊗ MAIN SHUTOFF VALVE
- ⊙ QUICK COUPLING VALVE
- ⊠ INDICATES CONTROLLER AND CONTROLLER STATION NUMBER
- ⊡ INDICATES LATERAL DISCHARGE IN GPM
- ⊢ INDICATES REMOTE CONTROL VALVE SIZE

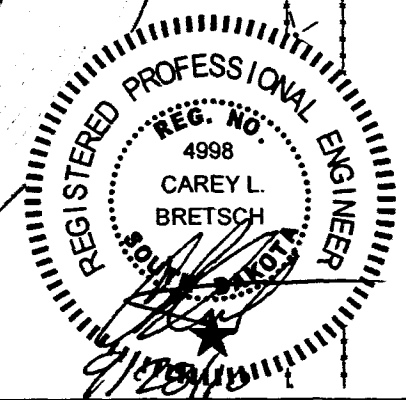
- RAIN BIRD FALCON 6504 FC W/12 NOZZLE  
PRESSURE = 40 PSI RADIUS = 53 FEET  
FLOW = 9.7 GPM
- RAIN BIRD FALCON 6504 PC W/12 NOZZLE  
PRESSURE = 40 PSI RADIUS = 53 FEET  
FLOW = 9.7 GPM
- RAIN BIRD 3500 ROTOR PC W/1.5 NOZZLE  
PRESSURE = 40 PSI RADIUS = 23 FEET  
FLOW = 1.38 GPM

Install Irrigation Controller  
Next to the Post Mounted  
Distribution Panel

Notes: All Falcon 6504 Rotors shall have #12 Nozzles  
and all 3500 Rotors shall have #1.5 Nozzles. All  
Sprinkler Heads shall be Adjusted so No Water is  
Sprayed onto the Track or High Jump Surfacing.



Revised: 07-01-2010



Elkton Athletic Complex

CAD Filename:  
Final Design

CDI Project No.  
2009-173

Drawn By:  
JJC

Checked By:  
CLB

Scale:  
1" = 40'

Date:  
07/01/2010



609 Main Ave S  
Brookings, SD  
605-696-3200

Sheet No:

of No:

# Well Location

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3,640 Ft

Brookings County  
S 21, T 109N, R 47W

580 Ft

1,636 Ft

Well Location  
NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  S21

Please note that the Section and  
Quarter lines shown are  
approximate and are not as Platted.



North

Elkton Athletic Complex

CAD Filename:  
2009-173

CDI Project No.  
2009-173

Drawn By:  
JJC

Checked By:  
CLB

Scale:  
1" = 600'

Date:  
12/14/2009



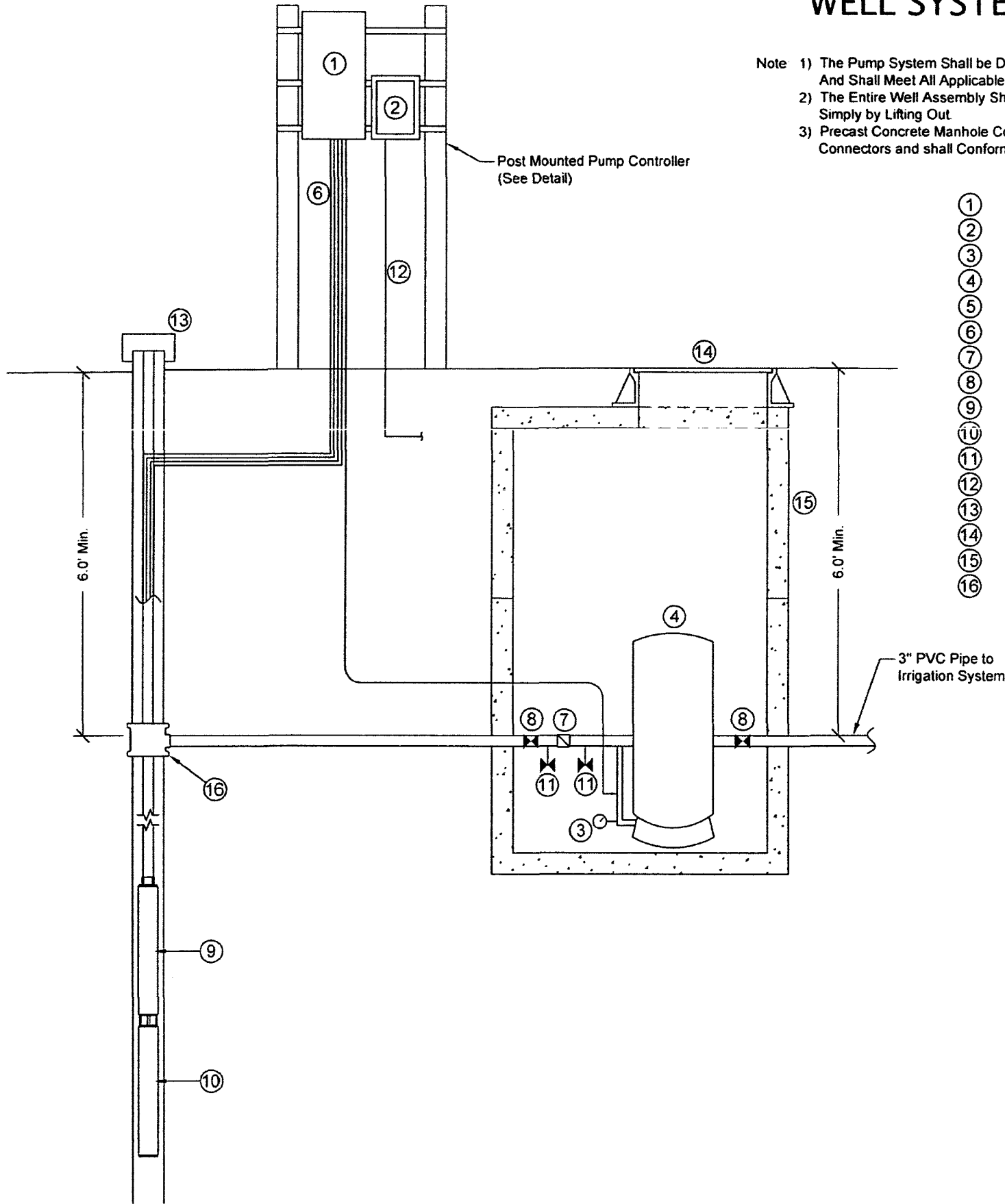
609 Main Ave S  
Brookings, SD  
605-696-3200

Sheet No:

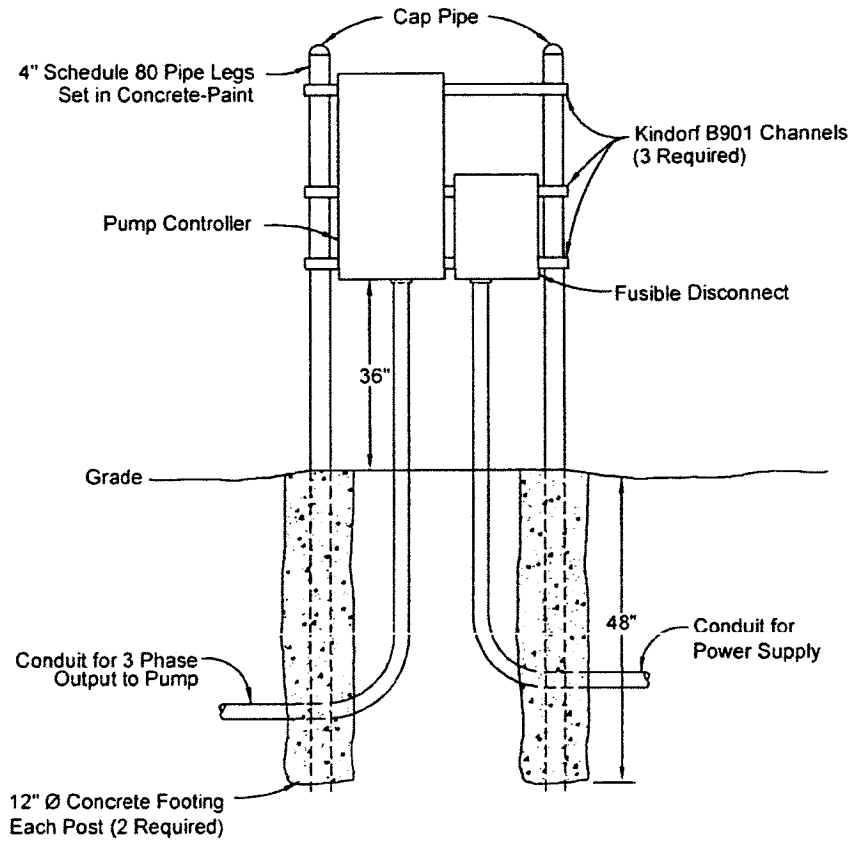
of No:

WELL SYSTEM DETAILS

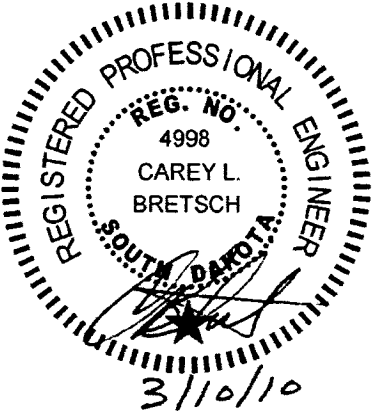
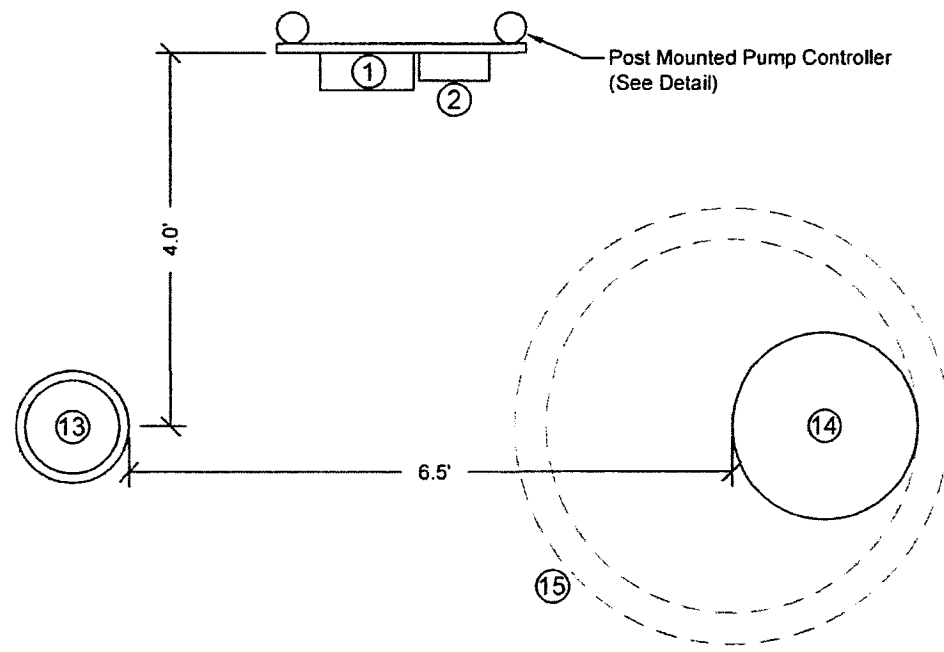
- Note 1) The Pump System Shall be Designed by Qualified Technicians Only And Shall Meet All Applicable State and Local Code Requirements.  
2) The Entire Well Assembly Shall be Removable from Within the Casing Simply by Lifting Out.  
3) Precast Concrete Manhole Connections shall be Watertight Resilient Connectors and shall Conform to the Latest Revision of ASTM C923



- ① Simplex Variable Speed Submersible Pump Controller
- ② Fusible Disconnect
- ③ Pressure Gauge
- ④ Air Diaphragm Tank
- ⑤ Pressure Transducer
- ⑥ 3 Phase Output
- ⑦ Discharge Check Valve
- ⑧ Gate Valve
- ⑨ Submersible Pump
- ⑩ Submersible Motor (3 Phase)
- ⑪ Pressure Relief Valve
- ⑫ Power Supply - Single Phase (By Others)
- ⑬ Sealed, Lockable Well Cover
- ⑭ Type A7 Manhole Frame and Lid
- ⑮ 48" Ø Manhole
- ⑯ Pitless Adapter



POST MOUNTED PUMP CONTROLLER INSTALLATION DETAIL  
NO SCALE





# STATE OF SOUTH DAKOTA ATHLETIC FIELD CONSTRUCTION

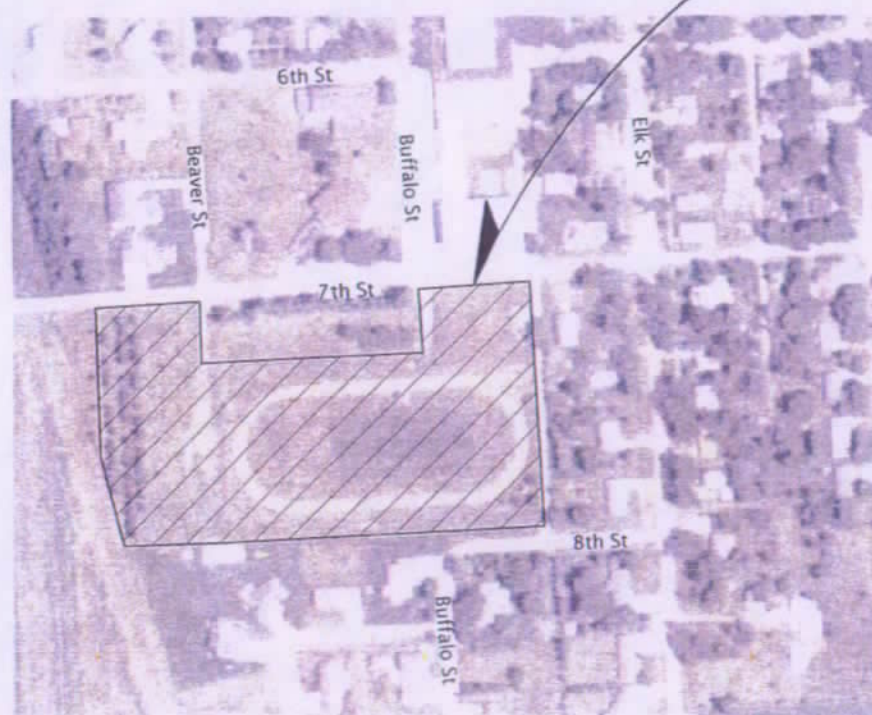
## PLANS FOR PROPOSED ELKTON PUBLIC SCHOOL ATHLETIC COMPLEX FOOTBALL FIELD AND TRACK CONSTRUCTION

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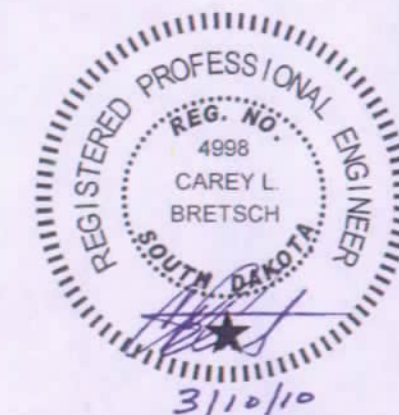
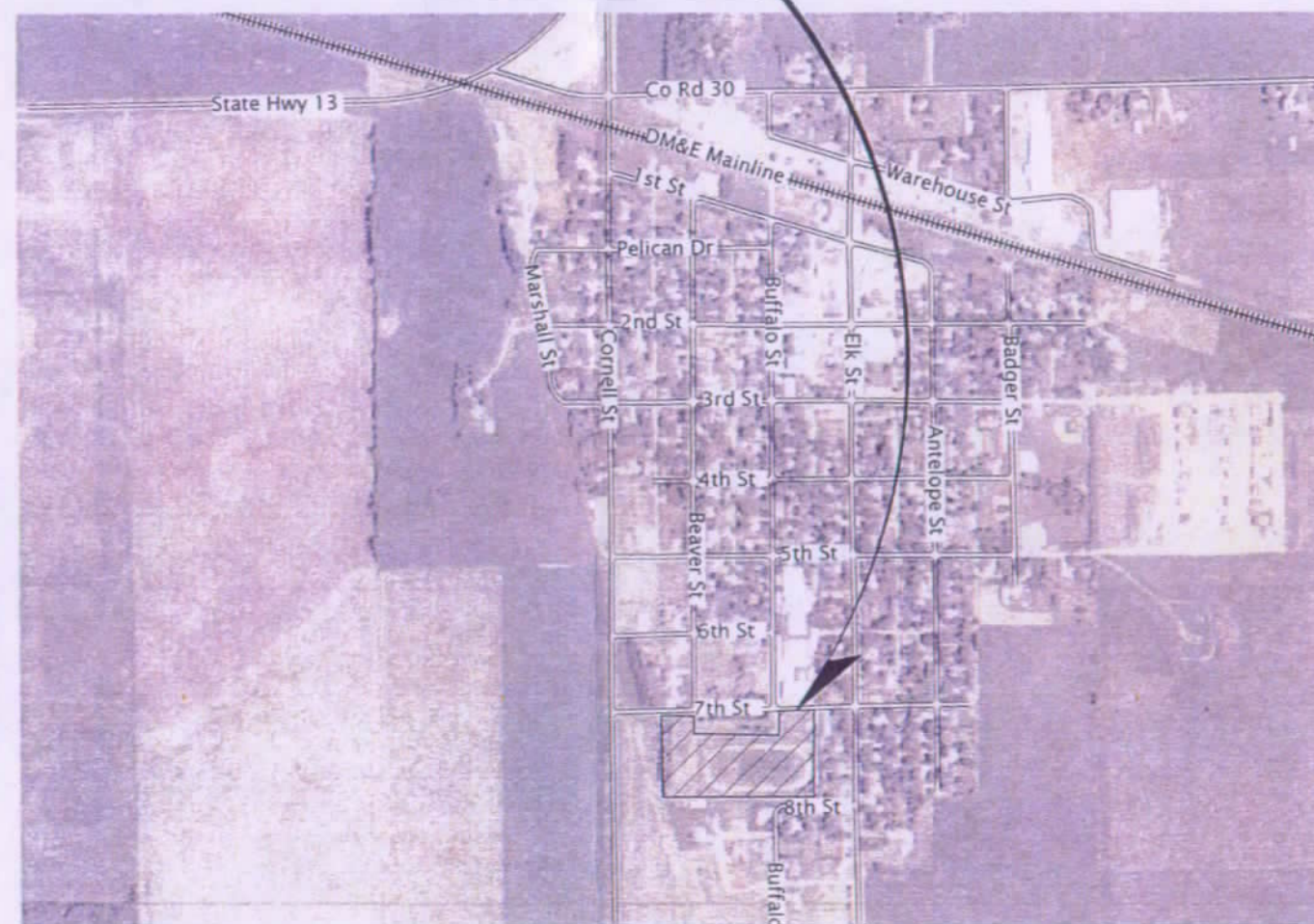
### INDEX OF SHEETS

| Sheet No. | Description                                  |
|-----------|----------------------------------------------|
| 1         | Title Sheet                                  |
| 2         | Estimate of Quantities                       |
| 3-10      | Notes & Specifications                       |
| 11-13     | Stormwater Pollution Prevention Plan (SWPPP) |
| 14        | Erosion Control, Demolition & Removals       |
| 15        | Site Layout                                  |
| 16        | Proposed Elevations                          |
| 17        | Utilities                                    |
| 18        | Electrical Layout                            |
| 19        | Irrigation                                   |
| 20        | Fence                                        |
| 21-22     | Typical Sections                             |
| 23        | Discus & Shot Put Pad Details                |
| 24        | Utility Details                              |
| 25        | Electrical Details                           |
| 26        | Irrigation Details                           |
| 27        | Well Details                                 |
| 28        | Fence Details                                |
| 29        | Standard Plates                              |

PROJECT LOCATION  
Athletic Field Construction  
Elkton, South Dakota



STORM WATER PERMIT  
Disturbed Area= 8.50 Acres  
Project Area= 9.23 Acres  
Major Stream: Spring Creek



Elkton Athletic Complex

CAD Filename:  
Title Sheet

CDI Project No.  
2009-173

Drawn By:  
JJC

Checked By:  
CLB

Scale:  
No Scale

Date:  
03/10/2010

**CDI CIVIL**  
DESIGN INC

609 Main Ave. S  
Brookings, SD 57006  
605-696-3200

Sheet No:  
1

of No:  
29

## SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

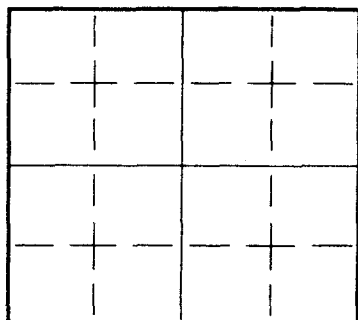
Location  $\frac{1}{4}$   $\frac{1}{4}$  Sec 20 Twp 109N Rg 77WCounty Brookings North

Please mark well location with an "X"

W

E

Well Completion Date

9-3-10

## LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 300 ft. from well (identify source).

## PROPOSED USE:

☐ Domestic/Stock ☐ Municipal ☐ Business ☐ Test Holes  
☒ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well

## METHOD OF DRILLING:

Direct RotaryCASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe \_\_\_\_\_

| PIPEWEIGHT         | DIAMETER    | FROM         | TO           | HOLE DIAMETER   |
|--------------------|-------------|--------------|--------------|-----------------|
| <u>50817</u> LB/FT | <u>5</u> IN | <u>26</u> FT | <u>26</u> FT | <u>8 3/4</u> IN |
| _____ LB/FT        | _____ IN    | _____ FT     | _____ FT     | _____ IN        |
| _____ LB/FT        | _____ IN    | _____ FT     | _____ FT     | _____ IN        |

## GROUTING DATA

| Grout Type      | No. of Sacks | Grout Weight      | From        | To           |
|-----------------|--------------|-------------------|-------------|--------------|
| <u>Portland</u> | <u>4</u>     | <u>74</u> lb./gal | <u>0</u> ft | <u>22</u> ft |
| _____           | _____        | _____ lb./gal     | _____ ft    | _____ ft     |

Describe grouting procedure pressure grout methodSCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 5 IN Length 10 FEETMaterial PlasticSlot Size .035 Set From 26 Feet to 36 Feet

Other information \_\_\_\_\_

WAS A PACKER OR SEAL USED? ☐ YES ☐ NO

If so, what material? \_\_\_\_\_

Describe packer(s) and location? \_\_\_\_\_

DISINFECTION: Was well disinfected upon completion?

☒ YES, How: HTH☐ NO, Why Not? \_\_\_\_\_

Laboratory sent to for water quality analysis \_\_\_\_\_

Well Owner: Elkton Public School Dist. #5-3Business Name: Elkton SchoolAddress: 508 Buffalo St.  
Elkton, SD 57026

## WELL LOG:

## DEPTH

## FORMATION

## FROM

## TO

|                     |    |    |
|---------------------|----|----|
| Top Soil            | 0  | 1  |
| yellow mixed gravel | 1  | 12 |
| yellow clay         | 12 | 18 |
| yellow mixed gravel | 18 | 36 |
| Blue clay           | 36 | 50 |

STATIC WATER LEVEL 8' Feet

If flowing: closed in pressure \_\_\_\_\_ PSI

GPM flow \_\_\_\_\_ through \_\_\_\_\_ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other \_\_\_\_\_

Reduced Flowrate \_\_\_\_\_ GPM

Can well be completely shut in? \_\_\_\_\_

## WELL TEST DATA:

☒ PumpedDescribe: air lift☐ Bailed☐ Other

Pumping Level Below Land Surface

26 ft. After 1 Hrs. pumped 90+ GPM26 ft. After 2 Hrs. pumped 90+ GPMIf pump installed, pump rate 80 GPM

## REMARKS

**RECEIVED****OCT - 6 2010****WATER RIGHTS PROGRAM**This well was drilled under license # 689

And this report is true and accurate.

Drilling firm Kaiser Well DrillingSignature of License Representative: [Signature]Signature of Well Owner or Equitable Property Holder: [Signature]Date: 10-1-2010

# RECEIPT

## WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 11/1, 20 10

RECEIVED OF Bowes Construction (Elkton School) 2915 22nd Ave S Brookings SD 57006

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

|                                                                                                                        |       |        |
|------------------------------------------------------------------------------------------------------------------------|-------|--------|
| Fee for Application for Permit No. <u>7219-3</u> to Appropriate Water, to construct and to put water to beneficial use | 500   | 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. <u>7219-3</u>            | 200   | 00     |
| 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. _____                                                 |       |        |
| Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____                                              |       |        |
| (Any Other Work Provided by Law)                                                                                       | TOTAL | 700 00 |

No.

**04659**

By

Garland Erbe  
Chief Engineer



**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

PMB 2020  
JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE, SOUTH DAKOTA 57501-3182  
[denr.sd.gov](http://denr.sd.gov)

October 7, 2010

Elkton Public School District  
c/o Tony Simons  
508 Buffalo St  
Elkton SD 57026

Dear Mr. Simons:

Thank you for submitting the *Application for a Permit to Appropriate Water* for irrigation of your football field. In order to complete the application the following is required.

- Enclosed is the map submitted with the application. The map needs to reference a section corner or quarter corner. If the dashed line indicates the outline of the entire section, then it appears the well is located in the NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  Section 21-T109N-R47W. The application states the well is located in the SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  Section 21. Please make the necessary reference to the map and clarify the well location.
- Also, complete Item No. 2 on the application listing the number of acres to be irrigated.
- The application/license filing fee will be \$700.00.

If you have any questions, please contact me.

Sincerely,

*Karen Schlaak*

Karen Schlaak  
Water Rights Program  
605 773-3352  
[karen.schlaak@state.sd.us](mailto:karen.schlaak@state.sd.us)

enclosures



**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

PMB 2020  
JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE, SOUTH DAKOTA 57501-3182  
[www.state.sd.us/denr](http://www.state.sd.us/denr)

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT  
APPLICATION NO. 7219-3, Elkton Public School District**

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 Water Permit Application No. 7219-3, Elkton Public School District, c/o Tony Simons, 508 Buffalo Street, Elkton SD 57026.

The Chief Engineer is recommending APPROVAL of Application No. 7219-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use, and 4) it is in the public interest with the following qualifications:

1. The well approved will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. Pursuant to SDCL 46-5-6 which allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires, Permit No. 7219-3 authorizes a maximum diversion rate of 0.178 cfs for the irrigation of 2.3 acres with an annual volume not to exceed 3 acre feet of water per acre per year.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Garland Erbele, Chief Engineer  
January 4, 2011

REPORT ON WATER PERMIT NO. 7219-3  
For Elkton Public School District  
December 29, 2010

Application No. 7219-3 proposes to appropriate 0.178 cfs (80 gpm) from one well approximately 36 feet deep located in the NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  of section 21 for irrigation of 2.3 acres located in the NW  $\frac{1}{4}$  SW  $\frac{1}{4}$  of section 21; all in T109N R47W (athletic field) in Brookings County.

**AQUIFER – BIG SIOUX AURORA (BS-A)**

The Big Sioux Aurora is a predominantly surficial outwash (sand and gravel) that is under water table conditions in this area. The aquifer underlies 39,300 acres and contains an estimated 165,060 acre-feet of recoverable water in storage in Brookings County (Hedges, 1982). The direction of ground water movement appears to be from northeast to southwest in the area of this application (Hamilton, 1989). Recharge to the aquifer has been estimated to be about 6.57 inches per year (Koch, 1980). The small portion of the aquifer (contributing to the flow to the southwest in Brookings County) would supply about 2,500 acre-feet of recharge annually. This volume is sufficient to maintain all the area water users. The aquifer does extend into Minnesota to the east, into Moody County to the southwest and does extend to the north and west in Brookings County but that part of the aquifer is not in the same ground water flow system and would not contribute water to this area.

The well log filed with the application indicates yellow sand and gravel from 1 to 12 feet, yellow clay from 12 to 18 feet and yellow gravel from 18 to 36 feet below land surface. The well had an 8 feet static water level and was capable of producing 90 plus gallons per minute using air to develop. The well as built is completed in accordance with SD Well Construction Standards.

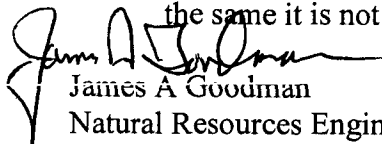
The Water Rights Program does monitor an observation well BG-78H completed into the Big Sioux Aurora aquifer and located about two and one-half miles south of this application. Water levels for this monitoring well show good response to climatic conditions, that is rising water levels during wet years (recharge) and gradually declining water levels during dry years. There appears to be little effect from area pumping. In general the water record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2010). A hydrograph for this observation well is included with this report.

**REVIEW OF EXISTING WATER PERMITS/RIGHTS**

The City of Elkton has ground water rights in this area. City well #1 (South well) is located about 600 feet northeast of this application. Interference is not a concern. Pumping at the requested rate will not adversely impact water availability from the aquifer. Besides the City of Elkton does not use their city wells for drinking water and purchases their water supply from Brookings Deuel RWS. The permit is still in place for the City but high nitrates in the water supply have prohibited the use for human consumption.

## CONCLUSIONS

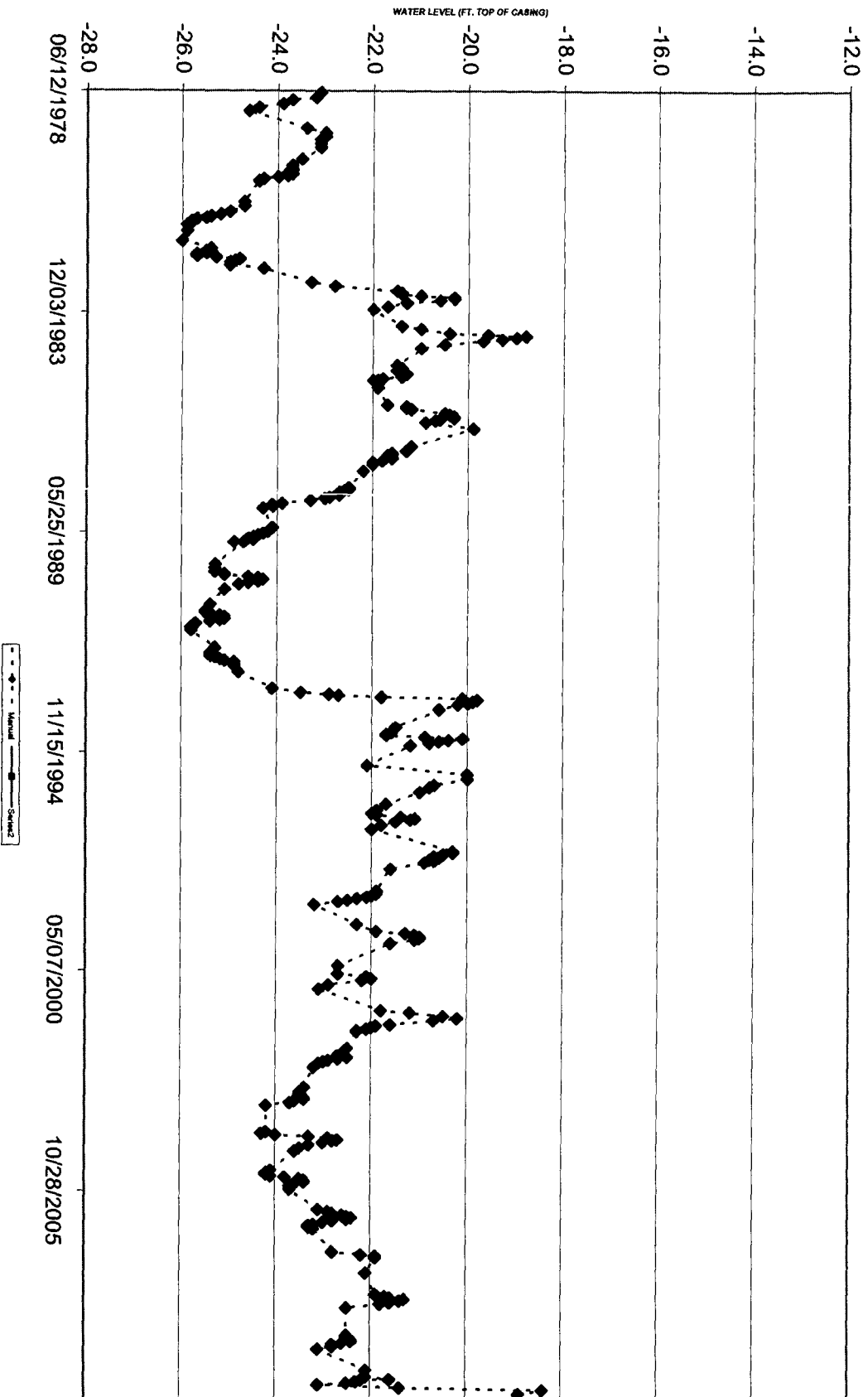
1. Water is available from the Big Sioux Aurora aquifer.
2. The aquifer is under water table conditions in this area. Pumping at the requested rate should not create significant drawdown. Interference is not a concern.
3. The well has been completed in accordance with SD Well Construction Standards.
4. The applicant is requesting a greater rate of diversion than the acreage for irrigation would allow. This facility is an athletic field and this request can be honored.
5. A permit application for Jo's Family Farms (7178-3) was contested and subsequently approved by the Water Management Board. That permit is located about three miles southeast of this application. Even though the source of water is the same it is not anticipated that this application would be contested.

  
James A Goodman  
Natural Resources Engineer

## BIBLIOGRAPHY

- Hamilton, L.J., 1989, Water Resources of Brookings and Kingsbury Counties, South Dakota, Water-Resources Investigations Report 88-4185, USGS, Huron, SD, 57350.
- Hedges, L.S., and others, 1982, Evaluation of Ground-Water Resources of Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.
- Koch, N.C., 1980, Appraisal of the Water Resources of the Big Sioux Aquifer Brookings, Deuel, and Hamlin Counties, South Dakota, Water-Resources Investigations Report 80-100, USGS, Huron, SD, 57350.
- Water Rights, 2010, Unpublished Observation Well Resources for Brookings County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL  
BG-78H



Affidavit of Publication

State of South Dakota

Exhibit "A"

ss

County of Brookings

Laura Johnson of said county, first duly sworn, on oath, says: That she is the office clerk of THE BROOKINGS REGISTER, a daily newspaper, printed and published in the City of Brookings, in said County of Brookings, and State of South Dakota; that she has full and personal knowledge of the facts herein stated; that said newspaper is a legal newspaper and has a bona fide circulation of at least two hundred copies of each issue daily; that said newspaper has been published within the said County of Brookings and State of South Dakota, for more than one year prior to the first publication of Exhibit "A," hereto attached and herein mentioned, and was and is printed that the

Leg#909 Notice of Application

same was published, is hereto attached marked Exhibit said newspaper for \_\_\_\_\_ 2 times, to-wit:

January 12, 2011

January 13, 2011

said Exhibit "A" inures to the sole benefit for the publishers of 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 person whomsoever; that the fees charged for the publication thereof are:

Forty dollars and eighty-four cents \$40.84



Subscribed and sworn to before me this

20th

day of

January

2011

Notary Public in and for the County of Brookings, South Dakota.  
My Commission expires July 14, 2015

RECEIVED

FEB - 9 2011

WATER RIGHTS  
PROGRAM

Legal 909, 2x, 1/12, 19  
NOTICE OF APPLICA-  
TION NO. 7219-3 to  
Appropriate Water

Notice is given that the Elktion Public School District, 508 Buffalo Street, Elktion SD 57026 has filed an application for a water permit to appropriate 0.178 cubic feet of water per second from one well completed into the Big Sioux/Aurora Aquifer (36 feet deep) located in NW 1/4 SW 1/4 Section 21 for irrigation of 2.3 acres located in the NW 1/4 SW 1/4 Section 21; all in T109N-R47W (football field).

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7219-3 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 recommendation 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 January 31, 2011.

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. Published twice at the total approximate cost of \$40.84



**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

PMB 2020  
JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE, SOUTH DAKOTA 57501-3182  
[www.state.sd.us/denr](http://www.state.sd.us/denr)

January 4, 2011

Brookings Register  
PO Box 177  
Brookings SD 57006

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7219-3 to Appropriate Water to be published twice. Please publish the first notice on January 12, 2011 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 Elkton Public School District, c/o Tony Simons, 508 Buffalo St., Elkton SD 57026 (Ph # 605-542-2541).

**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. 7219-3

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

Date \_\_\_\_\_

We are in receipt of your letter of January 4, 2011 enclosing Notice to Appropriate Water by Application No. 7219-3 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](http://www.state.sd.us/denr)

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

January 4, 2011

Elkton Public School District  
Tony Simons  
508 Buffalo St  
Elkton SD 57026

Dear Mr. Simons:

Water Permit Application No. 7219-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Publisher of the Brookings Register printed at Brookings SD (Ph # 605-692-6271). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are 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 newspaper to authorize publication of your Notice and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, the publisher has been instructed to publish your notice once each week for two consecutive weeks. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund  
Natural Resources Engineer  
(605) 773-3352  
[eric.gronlund@state.sd.us](mailto:eric.gronlund@state.sd.us)

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.

Instruction to Newspaper - Publish first Notice on January 12, 2011 with the second publication 7 days later. The applicant is responsible for payment. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352 or email: Karen.schlaak@state.sd.us.

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NOTICE OF APPLICATION NO. 7219-3 to Appropriate Water

Notice is given that the Elkton Public School District, 508 Buffalo Street, Elkton SD 57026 has filed an application for a water permit to appropriate 0.178 cubic feet of water per second from one well completed into the Big Sioux:Aurora Aquifer (36 feet deep) located in NW ¼ SW ¼ Section 21 for irrigation of 2.3 acres located in the NW ¼ SW ¼ Section 21; all in T109N-R47W (football field).

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7219-3 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 recommendation 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 January 31, 2011.

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.

Published twice at the total approximate cost of \_\_\_\_\_.



**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

PMB 2020  
JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE, SOUTH DAKOTA 57501-3182  
[www.state.sd.us/denr](http://www.state.sd.us/denr)

MAR 03 2011

Elkton Public School District  
Tony Simons  
508 Buffalo St  
Elkton SD 57026

Dear Mr. Simons:

Enclosed is Water Permit No. 7219-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Form 10, *Notice of Completion of Works and Application of Water to Beneficial Use*, is enclosed. Please return this completed form after you have finished the system and have put the water to beneficial use. An investigation can then be scheduled so the water license may be issued, thus completing the acquisition of a water right.

An informational sheet *?Common Water Right Questions?* is also enclosed. This sheet is intended to answer some of the questions associated with obtaining and keeping a water right.

Sincerely,

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

enclosures

## **Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 7219-3**

I have this day, May 11, 2021, made a thorough examination of the water use system constructed by Elkton Public School District, 508 Buffalo St, Elkton, SD 57026 of Permit No. 7219-3, bearing the priority of October 6, 2010 authorizing the diversion of 0.178 cu. ft. per second of the waters of Big Sioux: Aurora Aquifer for irrigation purposes, in Brookings County.

### **A. Works used to divert the water:**

#### **Well Information:**

- 1) Well Drilling Firm: Kaiser Well Drilling
- 2) No. of Wells 1
- 3) Depth(s) 36 feet
- 4) Well log is available Y

#### **Casing:**

- 1) Diameter 5 inches
- 2) Length 26 feet
- 3) Type SDR 17

#### **Screen:**

- 1) Type SDR 17
- 2) Length 10 feet
- 3) Static water level 10 feet

#### **Pump:**

- 1) Make NA
- 2) Model submersible
- 3) Size NA
- 4) Capacity NA GPM

#### **Motor:**

- 1) Make NA
- 2) Model No. NA
- 3) Horsepower rating NA hp

**C. Works used to apply water to beneficial use:**

Buried solid set Rainbird sprinkler system:

**Chemigation Equipment:**

- 1) Does chemigate N

**D. Compliance with Permit Requirements:**

- 1) Permit qualifications being abided by Y
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Y
- 3) Exceptions to compliance are: none

**E. Condition and Location:**

1. The system is in good, condition with the point(s) of diversion located as follows: From the SW corner of Sec 21, T109N, R47W: 1595 ft N, 600 ft E (NW ¼ SW ¼ Sec 21) Lat 44.22972 Long -96.48373.
2. The works are capable of diverting and conveying to the place of use 0.151 cu. ft. per second of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:  
legal description/acreage  
All land in Sec 21-T109N-R47W, NW1/4 SW 1/4 - 2.3 ac  
comprising a total of 2.3 acres of land and the license should be issued for 0.151 cfs
3. All structures, wells and lands on map Y

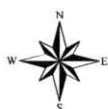
**F. Comments or other permit(s) associated with the project:**

Mr. Brian Jandahl, School Superintendent indicated he did not really know the irrigation (pump) flow rate. An estimated rate was determined as follows: A maximum of eight (8) sprinklers are operated at one time for a given application set. A review of Rainbird sprinkler literature gives a sprinkler flow rate of about 8.5 gpm/sprinkler at a nozzle pressure of 45 psi (common pressure). That produces an estimated pump flow rate of 68 gpm (0.151 cfs).



Darrell W DeBoer  
Water Rights Inspector  
DANR, Water Rights Program

Date report completed: May 12, 2021



0 0.015 0.03 0.06 0.09 0.12 Miles



Darrell DeBoer  
Water Right Inspector  
DANR-Water Rights Program



0 0.1 0.2 0.4 0.6 0.8 Miles



Darrell DeBoer  
Water Right Inspector  
DANR-Water Rights Program



**DEPARTMENT of AGRICULTURE  
and NATURAL RESOURCES**

JOE FOSS BUILDING  
523 E. CAPITOL AVE  
PIERRE SD 57501-3182  
danr.sd.gov

**MAY 20 2021**

7219-3

Brian Jandahl, Supt  
Elkton Public School District  
PO Box 190  
Elkton SD 57026-0190

Dear Mr. Jandahl:

Enclosed is Water License No. 7219-3. This is the final water right document completing your process of obtaining a Water Right. Included with your license is a map prepared by the staff engineer who conducted the field investigation.

For your information SDCL 46-6-27 requires that if in the future, the owner of an existing well, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

As long as you use the water beneficially, as stated in the Water License, State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Sincerely,

Eric Gronlund, Chief Engineer  
Water Rights Program  
(605) 773-3352

enclosures

**STATE OF SOUTH DAKOTA  
WATER LICENSE NO. 7219-3**

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(1) The Elkton Public School District, PO Box 190, Elkton SD 57026 made Application No. 7219-3, October 6, 2010 for a water permit to divert 0.178 cubic feet of water per second from ground water, one well (Big Sioux Aurora Aquifer), Brookings County, South Dakota for irrigation purposes. Permit No. 7219-3, with a priority date of October 6, 2010 was approved January 31, 2011 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before January 31, 2016 and for the application to beneficial use of water on or before January 31, 2020.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the water supply system and is entitled to divert 0.151 cubic feet of water per second for beneficial use. The location of the diversion point is as follows:

- 1,595'N and 600'E of the SW corner of Section 21, T109N, R47W (NW ¼ SW ¼ Section 21)  
Latitude 44.22972 Longitude -96.48373.

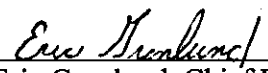
(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate the football field and practice playing field located as follows:

- 2.3 acres within the NW ¼ SW ¼ Section 21, T109N, R47W

(4) Pursuant to South Dakota Water Law 46-5-30.1 the Elkton Public School District, PO Box 190, Elkton SD 57026 the holder and/or owner of Water Right No. 7219-3 is issued a license to appropriate water, the right to use 0.151 cubic feet of water per second from ground water, one well (Big Sioux Aurora Aquifer) with a priority date of October 6, 2010 from the location specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 7219-3 and subject to the following qualifications:

- The well will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this water right shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- Pursuant to SDCL 46-5-6 which allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires, No. 7219-3 authorizes a maximum diversion rate of 0.151 cfs for the irrigation of 2.3 acres with an annual volume not to exceed 3 acre feet of water per acre per year. ***The diversion rate was reduced based on the system as it was developed.***
- This Water Right is approved subject to the irrigation water use questionnaire being submitted each year.

  
Eric Gronlund, Chief Engineer  
Water Rights Program  
Department of Agriculture and Natural Resources

  
date

