

WATER PERMIT NO. 2636-2

Name of Applicant: **Jeffery J Gregg**

Address: **29272 US Hwy 18, Carter SD 57580**

Phone: **605 879-2242**

Amount of Water Claimed: **41 AF**

Total Acres: **NA**

Source of Water Supply: **runoff**

Water to be used for: **fish & wildlife propagation**

County: **Todd**

Type of Waste Disposal System:

Location: **approximately 20 miles northeast of Mission**

PRIORITY

Date Received: **8-11-08**

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

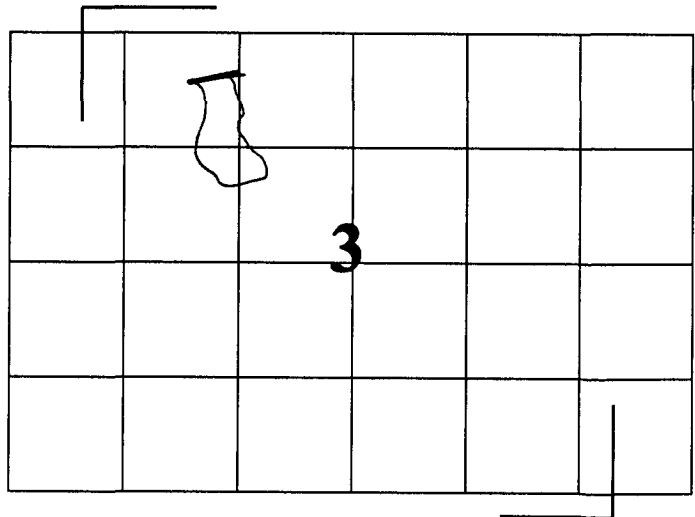
Corrected Application Received:

Period of Annual Use: **January 1 – December 31**

Remarks:

Diversion Point: **NW ¼ NW ¼ Sec 3-T39N-R25W**

Water Impounded: **NW ¼ Sec 3-T39N-R25W**



Depth of Well: **NA**

Well Driller:

Remarks:

Type of Map: **plat**

Prepared by: **David F Konechne, PE**

Reviewed and the Number Assigned on: **8-12-08**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	(office use only)	
	No. <u>2636-2</u>	Hydrologic Unit <u>10140204</u>
	Basin <u>White River</u>	
	Newspaper <u>Todd Co. Tribune</u>	<u>PO Box 229</u> <u>605-856-4469</u> <u>Mission 57555</u>

RECEIVED
AUG 11 2008
WATER RIGHTS
PROGRAM

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. _____
☐ 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 Jeffery J. Gregg Phone (605) 879-2242
(check one) ☒ Owner ☐ Tenant lessee
Mailing Address 29272 US Hwy 18 Carter State SD 57580
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed _____ *CFS or _____ **GPM 41 ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (**Acre Feet - storage capacity of dam, dugout or annual use if applicable)
- Source of water supply dry draw runoff
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Todd
NW1/4NW1/4 Section 03 Township 39N, Range 25W. Impoundment will be on a no name draw that empties into White Horse Creek located in Todd Co. Water impounded NW 1/4 Sec 3 T 39N R 25W
- County or counties where water will be used Todd County South Dakota
- Annual period during which water is to be used ~~April - October~~ Jan 1 - Dec 31
- 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)

This is the creation on a new embankment that will have a 530' grade with 12' fill. The structure will have a primary spillway that will have an inlet of 72" CMP and an outlet of 60". A natural emergency spillway will be located on the west side of project and have at least 100' wide of natural sod to run water. The maximum depth of pond will be 10' with surface of 11.7 acres.

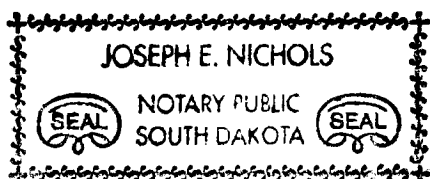
STATE OF SOUTH DAKOTA)
County of Todd) SS

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, Jeffery J. Gregg, 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 Jeffery J. Gregg

Subscribed and sworn to before me this 7 day of August 20 08



Joseph E. Nichols
Notary Public signature

My Comm. Expires: March 26, 2011.

**SOUTH DAKOTA
WATER PERMIT NO. 2636-2**

Date of first receipt of application August 11, 2008.

The Water Management Board approved Water Permit No. 2636-2 on December 9, 2008 for Jeffery J Gregg, 29272 US Hwy 18, Carter SD 57580 authorizing the construction of a dam and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 2636-2 authorizes impoundment of 41 acre-feet of water from runoff by constructing a dam located in the NW ¼ NW ¼ Section 3 with water impounded in the NW ¼ Section 3; all in T39N-R25W.
2. The water appropriated shall be used for the purpose of fish and wildlife propagation and livestock water purposes 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 from which applicant may claim right is August 11, 2008.
5. One-fifth of the construction is to be completed on or before June 9, 2011.
6. All construction is to be completed on or before December 9, 2013.
7. Water is to be put to beneficial use on or before December 9, 2017.
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. Water Permit No. 2636-2 authorizes a dam with a storage capacity of 41.0 acre feet of water and sufficient water annually to maintain the water level to the outlet elevation.
2. Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.

WATER MANAGEMENT BOARD

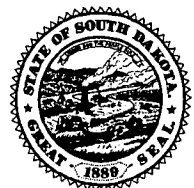
By: _____

Garland Erbele

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

JAN 27 2009

date



(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type _____ Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
On applicants property _____ On property owned by others _____

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) _____
- b) System Capacity (gallons) _____ Year Constructed _____
- c) Connected to the City of _____ Sanitary System

3. Dugout Information

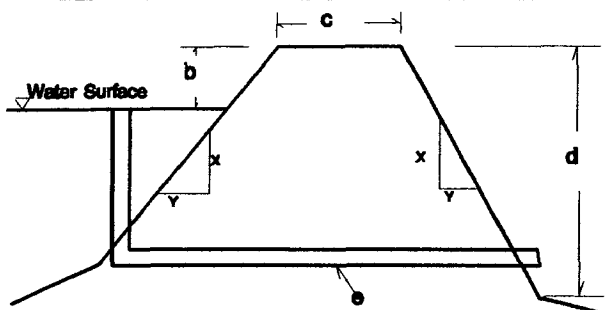
- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

4. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

- a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:

Konechne Engineering
104 Capital Hill Dr.
Pierre, SD 57501
Contact: Dave Konechne



- b) Freeboard _____ 5'
- c) Crest Width _____ 12'
- Crest Length _____ 530'
- d) Height _____ 12'
- e) Primary Outlet Capacity _____ 197cfs
If pipe, diameter _____ 72" In & 60"out
- f) Secondary Spillway Capacity _____ 500 cfs
Spillway Width _____ 100'
- g) X & Y Slope _____
Upstream _____ 3:1
Downstream _____ 3:1
- h) Surface Area of Impoundment _____ 11.7
- i) Storage _____ 41.0 Acre Feet
- j) Drainage Area Above Dam _____ 2,221.4 Acres

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 8/12, 20 08

RECEIVED OF Jeffrey J Gregg 29272 US Hwy 18 Winner SD 57580

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

Fee for Application for Permit No. <u>6372</u> to Appropriate Water, to construct and to put water to beneficial use	150	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>66362</u>	50	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	200 00

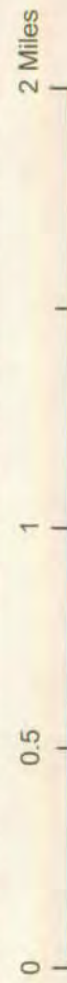
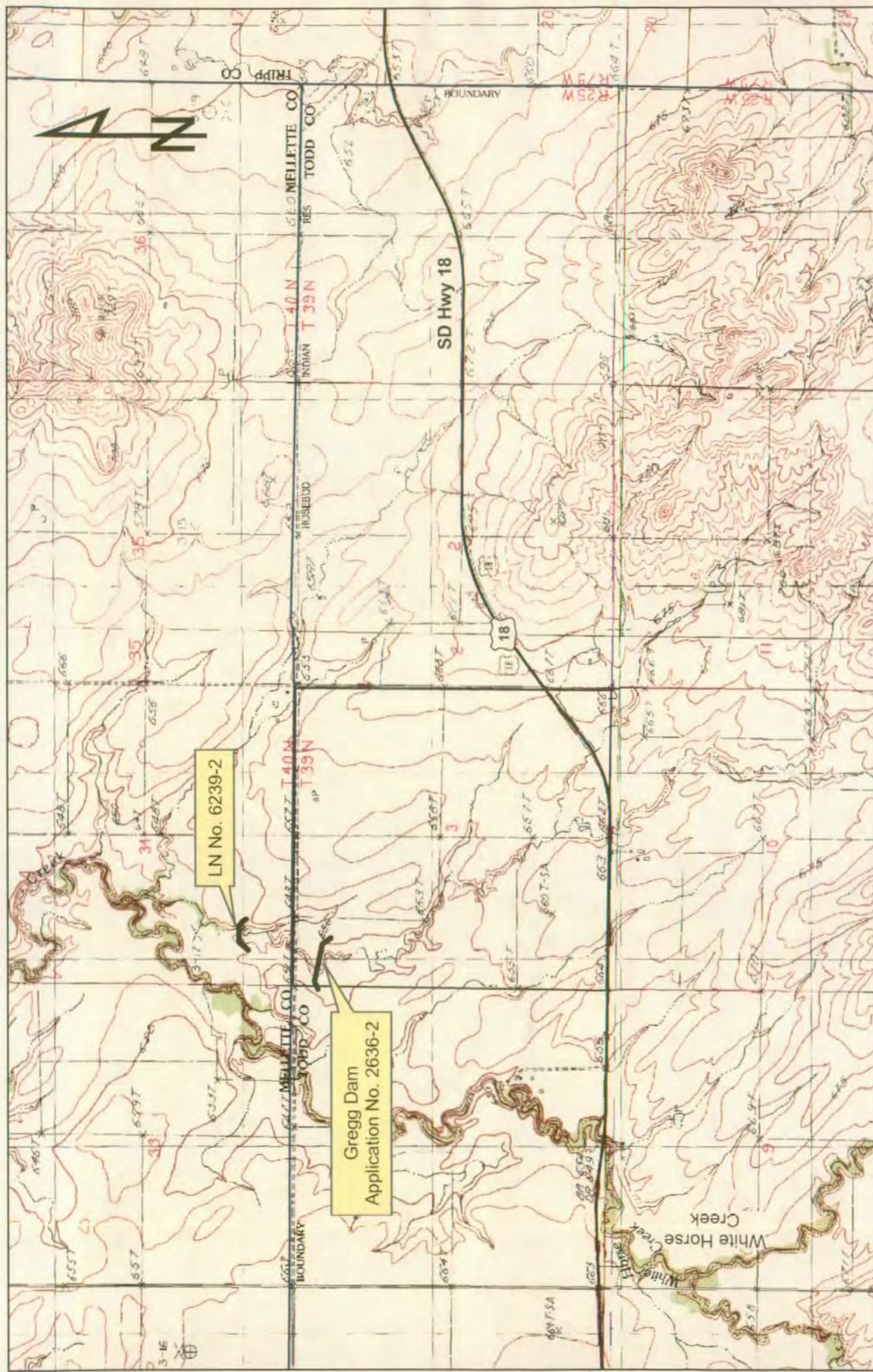
No.

03715

By

[Signature]
Chief Engineer

Location Map Application No. 2636-2



Location Map
Application No. 2636-2

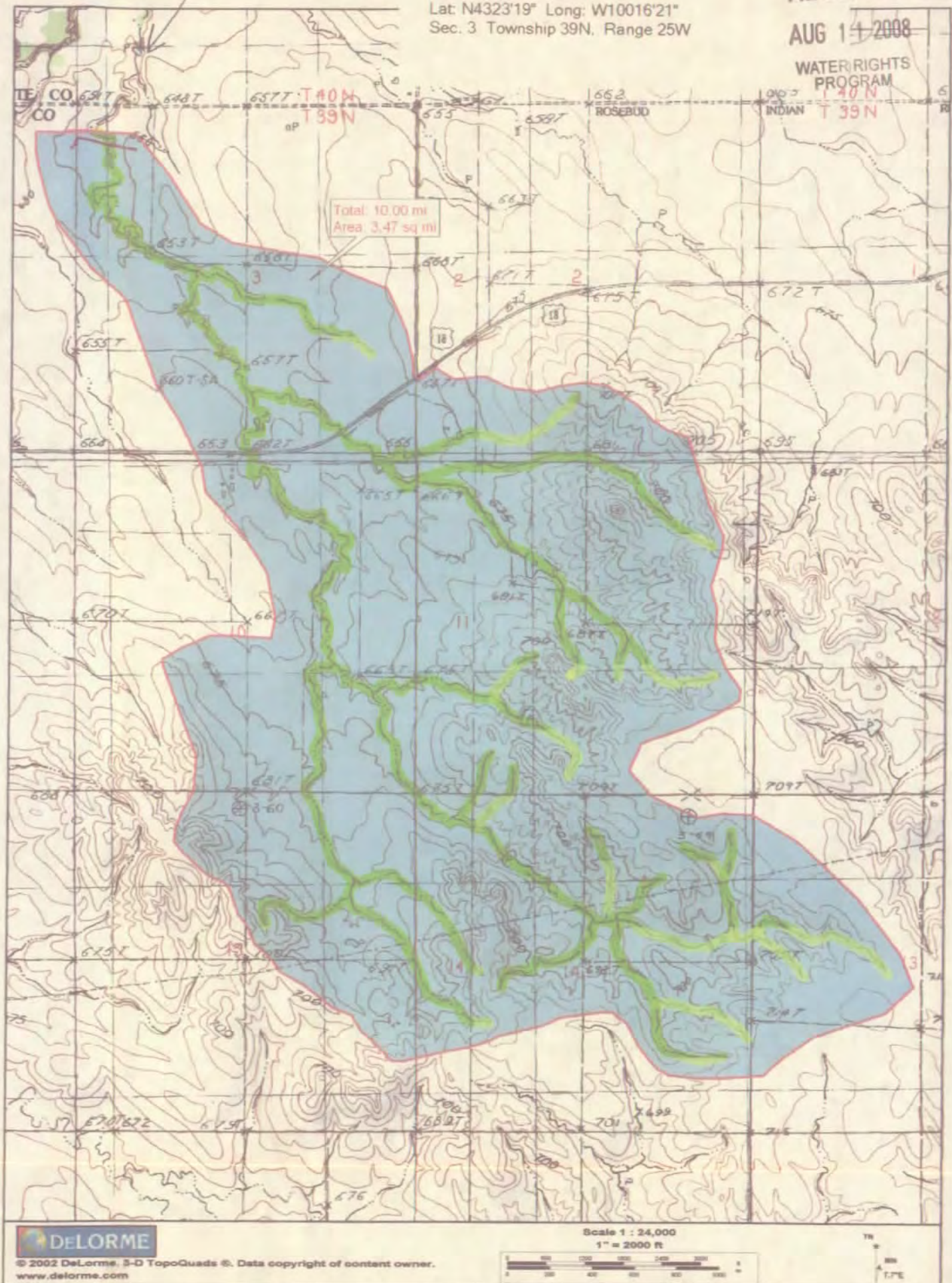


Jeff Gregg Todd County
New Wetland Creation
Lat: N4323'19" Long: W10016'21"
Sec. 3 Township 39N, Range 25W

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PROGRAM



2,220.8 acres

DRAINAGE AREA	ANNUAL YIELD	PEAK RUNOFF	EMERG. SPLWY. CAPACITY	WATER DEPTH	SURFACE AREA	SEDIMENT STORAGE	TOTAL STORAGE
ACRES	AC. FT.	Ac Ft 25-YR.	C. F. S.	FEET	ACRES	AC. FT.	AC. FT.
2221		322	500	10	11.7	—	41

155

A hand-drawn diagram of a rectangular field. In the top-left corner, there is a drawing of a tree with an arrow pointing upwards from its base. In the center of the field, the number '3' is written. The field is bounded by a thick line on the left and top, and a thick line on the right. There are several vertical lines of varying lengths along the top and bottom boundaries, and several horizontal lines of varying lengths along the left and right boundaries.

LOCATION

[illegible]

SD-2 Clearing & Grubbing
SD-7s Earth Fill
SD-9 Drain Fill
SD-12B Concrete
SD-15 CMP
SD-16 Timber Fabrication

OPERATOR: Jeffery Gregg

CONSERVATION DISTRICT: _____

Class "A" H322214

Designed _____	Date _____	Approved by _____
Drawn _____		Title _____
Traced _____		Title _____
Checked _____	Sheet _____	Drawing No. _____
	No _____	
	of _____	

Approximate scale 1" = _____

REFERENCE: GUIDE PLAN NO. 1.0

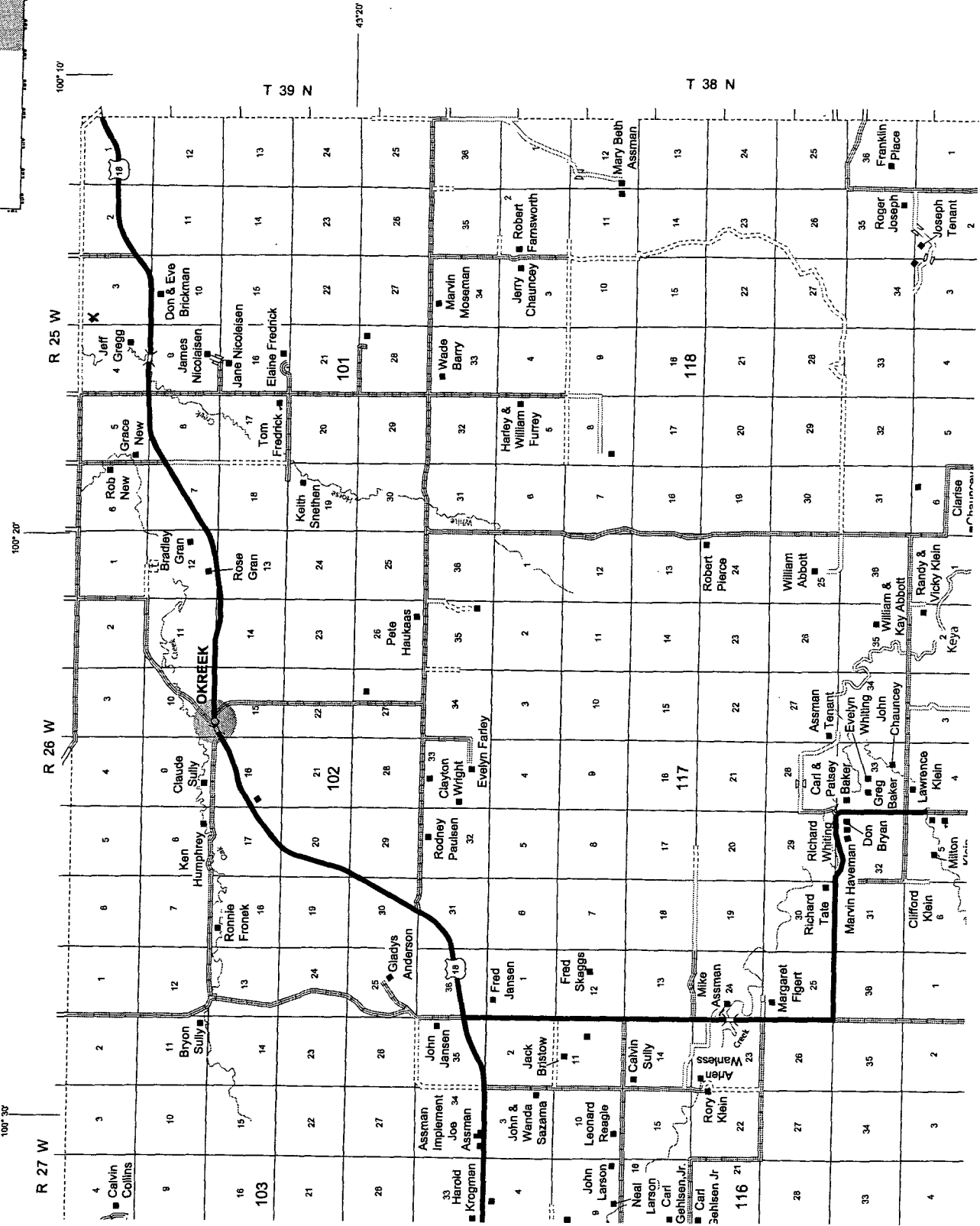
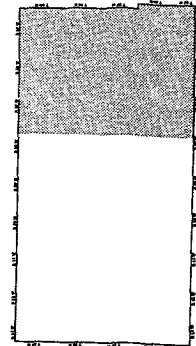
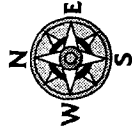
JOB PLAN NO. 1.0

USDA-SCS-LINCOLN NEBR. 1973

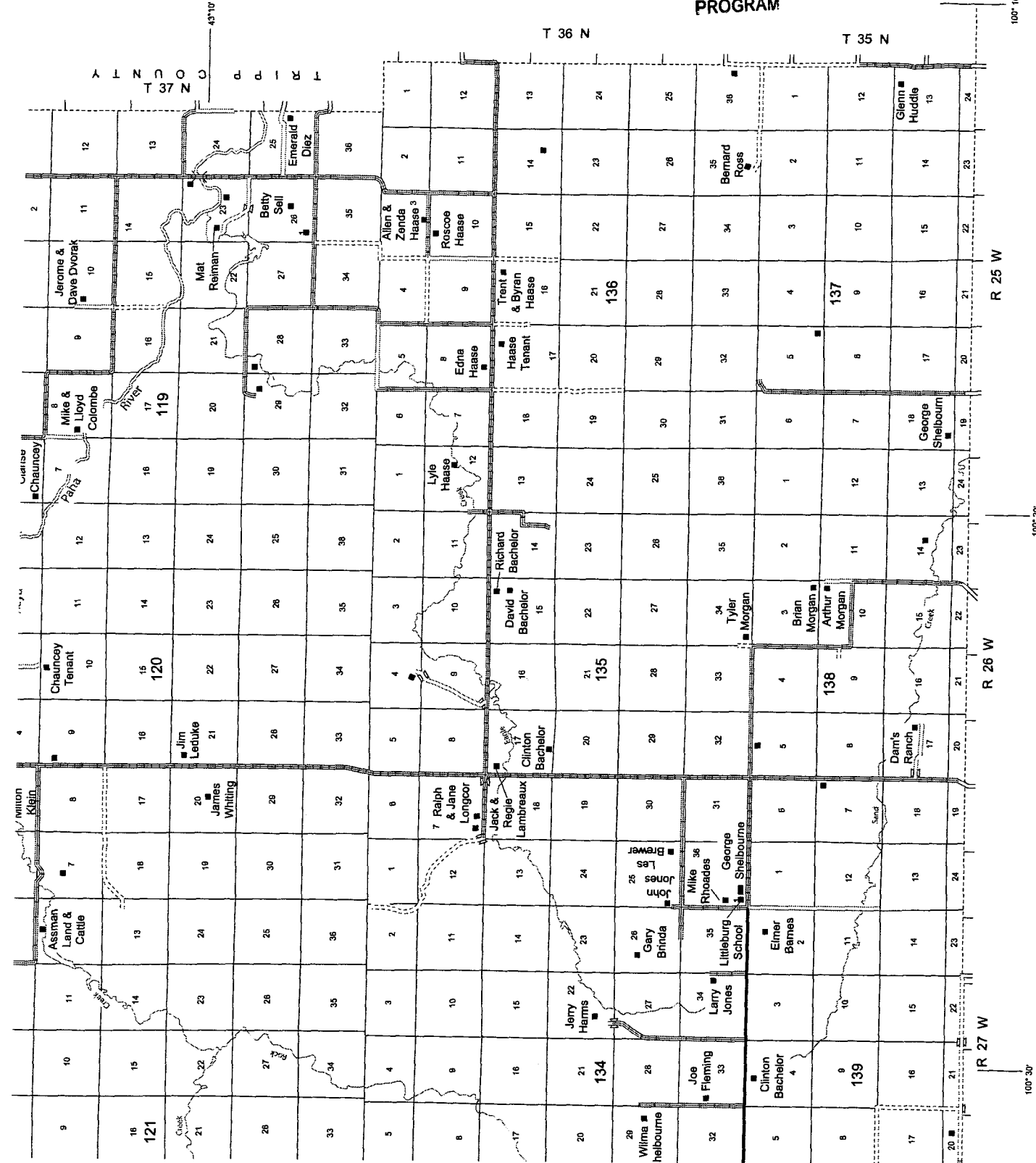
(Rev. 4-73) 5, N-29, 073.1a(1,

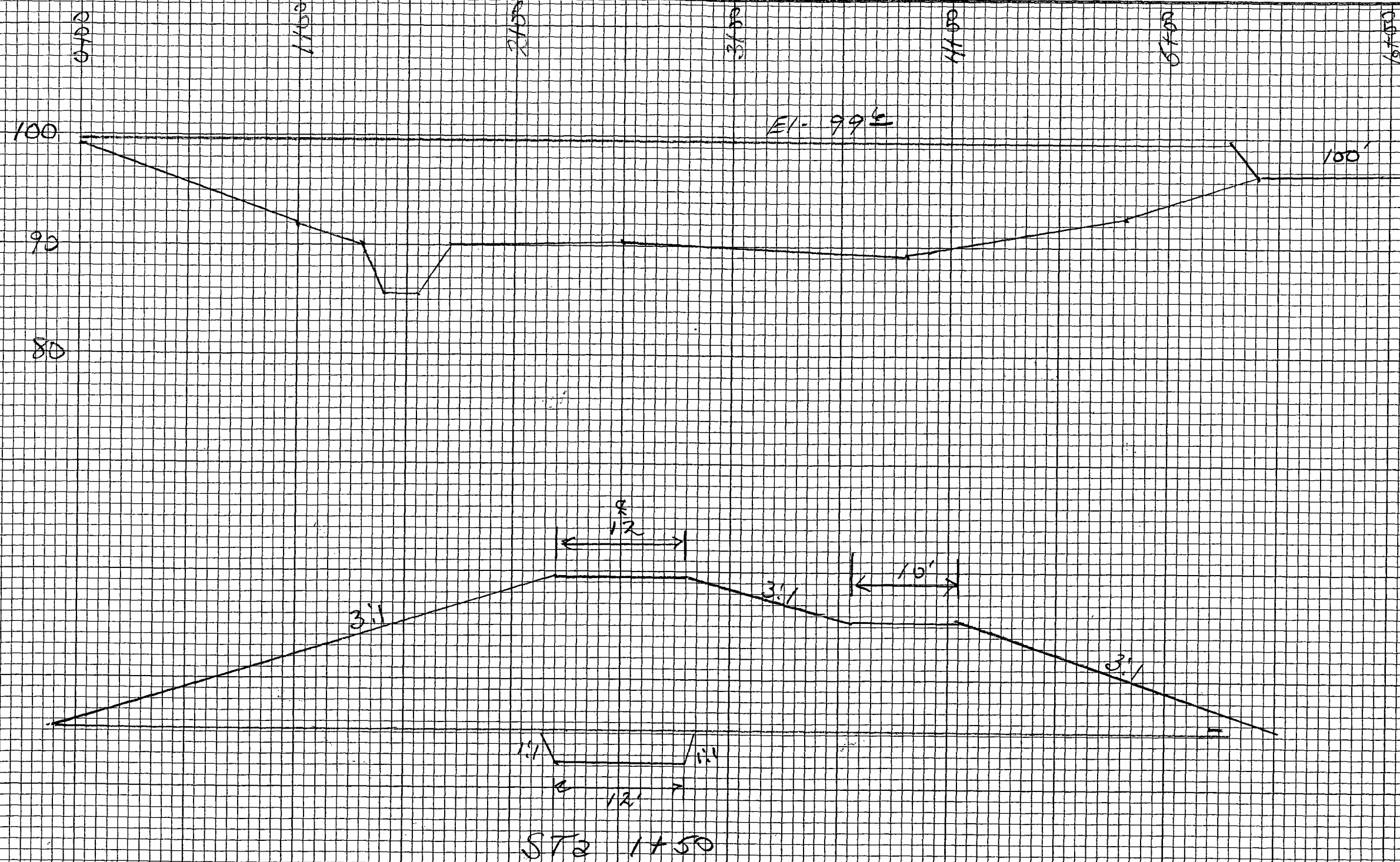
EAST Todd County

Map Legend on Pg. 2



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PROGRAM





$$\text{Berm} = \frac{435 \times 10 \times 5}{22} = 800 \text{ cy}$$

Date	Designed	Drawn	Checked	Approved
Jeffery Gregg Sec 3, T39N, R25W				
CAD file: NE900-10-002a.dwg				
Drawing No.				
Sheet of				

Trash rack and baffle plate
not shown. See job plan
no. 6.4

Top of dam after
settlement El. 99⁶

Note: Allowance for settlement 5%

3:1 slope normal
to $\odot$ of dam—

3:1 slope normal to ϕ of dam

Principal spillway El. 74⁶

Berm, if required 3:1
slope normal to C of
dam _____

El. 87³

72" dia. riser, see
job plan no. 5.3

90°

Antiseep collars

rs Sand soap collar
Job plan 3.8

80' of 60" dia. pipe

% gr

CROSS SECTION OF DAM ALONG C OF PRINCIPAL SPILLWAY
(Not to scale)

SPECIFICATION NOTES

1. ELBOW, IF REQUIRED, MAY BE FABRICATED BY CONTINUOUS WELDING SEPERATE PIPE SECTIONS OR BY FABRICATING A CONTINUOUS WELDED JOINT ON THE UPSTREAM END OF LAST SECTION OF PIPE.
2. PIPE WALL THICKNESS SHALL BE 10 GAGE OR 0.138 INCHES.

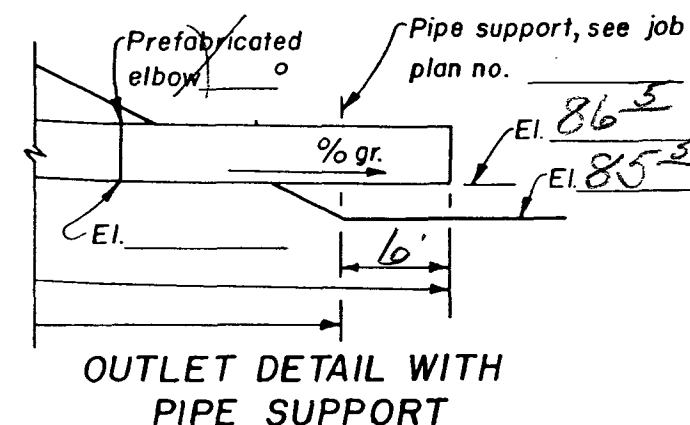
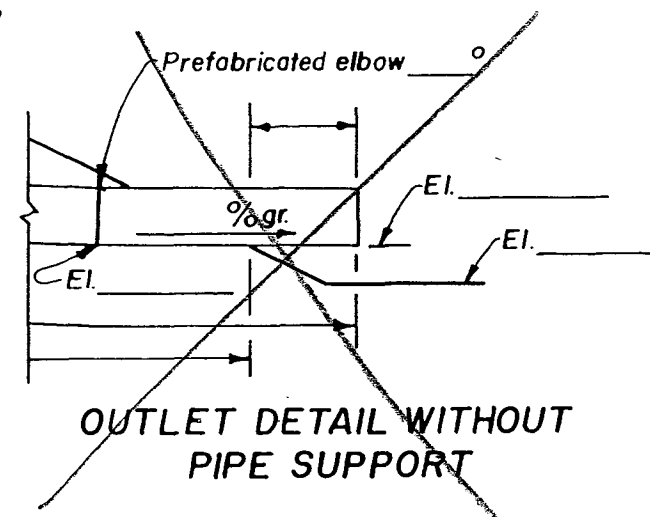
All CMP to be spiral vinyl clad

TABLE OF QUANTITIES

[illegible]

APPLICABLE STANDARD S.C.S. SPECIFICATIONS

REFERENCE: GUIDE PLAN NO. 2.0



Sec. _____, T. _____, R. _____
County _____

LOCATION

CORRUGATED METAL PIPE
DROP INLET PRINCIPAL SPILLWAY

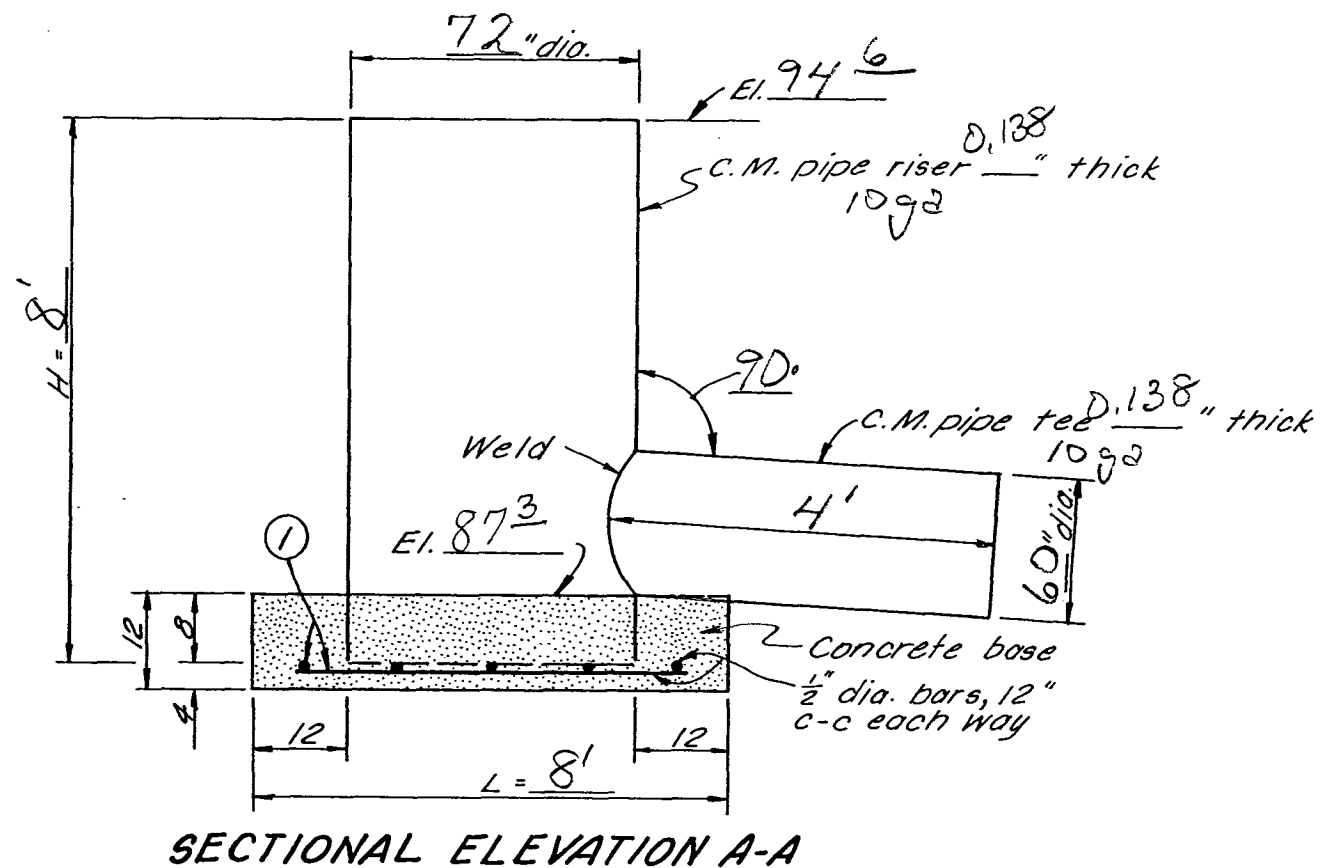
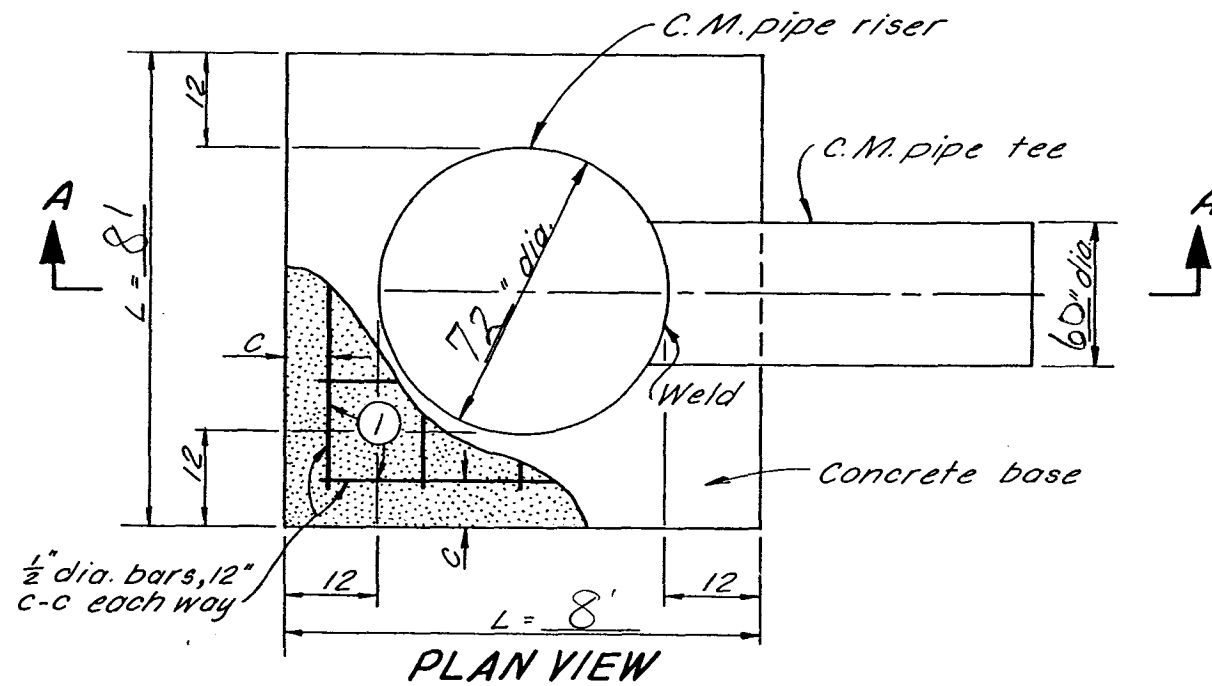
OPERATOR Jeffery Gregg

CONSERVATION DISTRICT _____

**U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE**

Date _____		Approved by _____	
Designed _____		Title _____	
Drawn _____		Title _____	
Traced _____		Sheet _____	Drawing No. _____
Checked _____		No _____	
		of _____	

Rev. 8/80
JOB PLAN NO. 2.0



REFERENCE: GUIDE PLAN NO. 5.3

STEEL SCHEDULE

RISER DIA. IN.	BAR SIZE	MARK	TYPE	NO. REQ'D.	LENGTH FT.-IN.	TOTAL LENGTH FT.-IN.	TOTAL WT. LB.	C IN.	L FT.-IN.
72	4	1	STR.	16	7-5	120	80	6	8-0

TABLE OF QUANTITIES

ITEM	UNIT	QUANTITY
CONCRETE	CU. YD.	2.4
REINFORCING STEEL	LB.	80

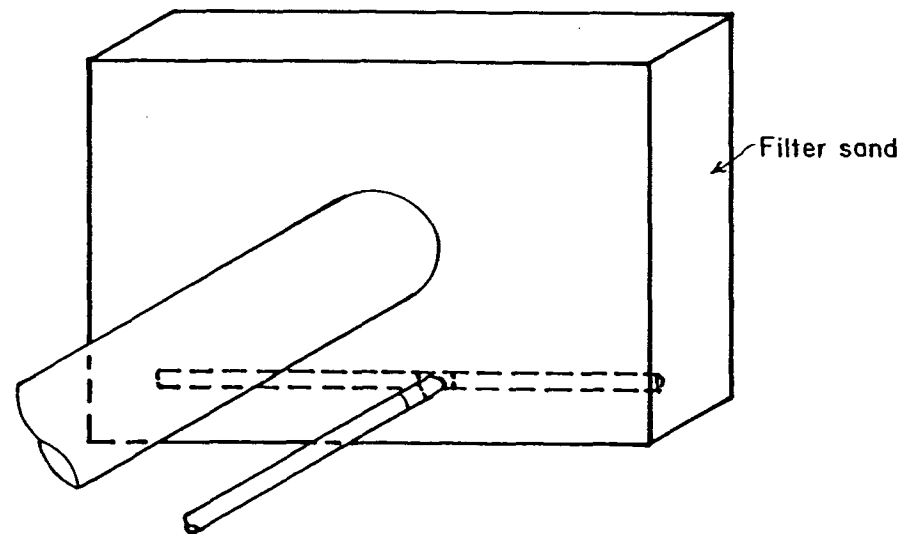
NOTE: All CMP to be vinyl clad & spiral
Riv - double mastic in joint

C.M. PIPE RISER WITH FABRICATED TEE

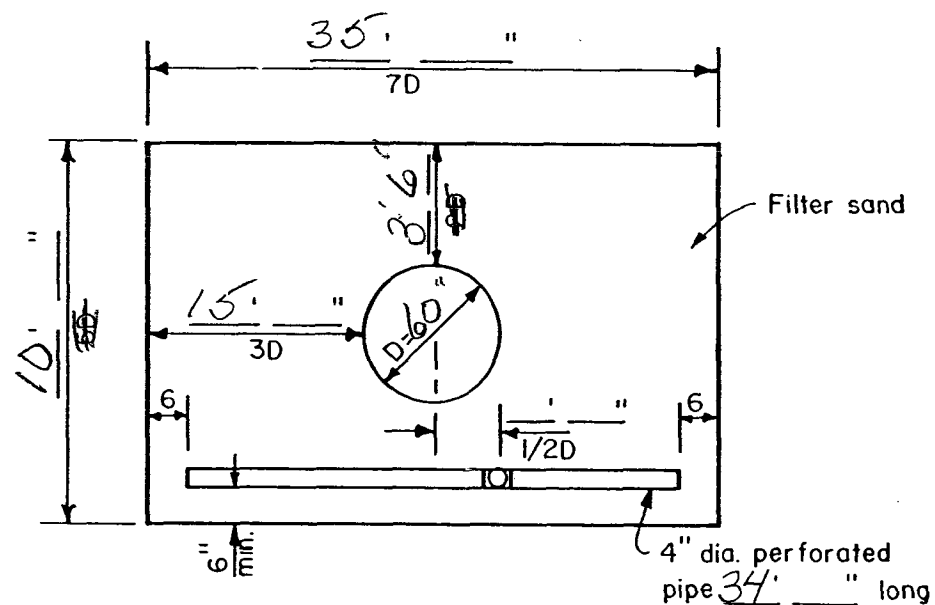
OPERATOR: <u>Jeffery Gregg</u>	
CONSERVATION DISTRICT: _____	
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	
Designed _____	Approved by _____
Drawn _____	Title _____
Traced _____	Title _____
Checked _____	Sheet _____ Drawing No. _____

JOB PLAN NO. 5.3

5,N-29,073.5-30



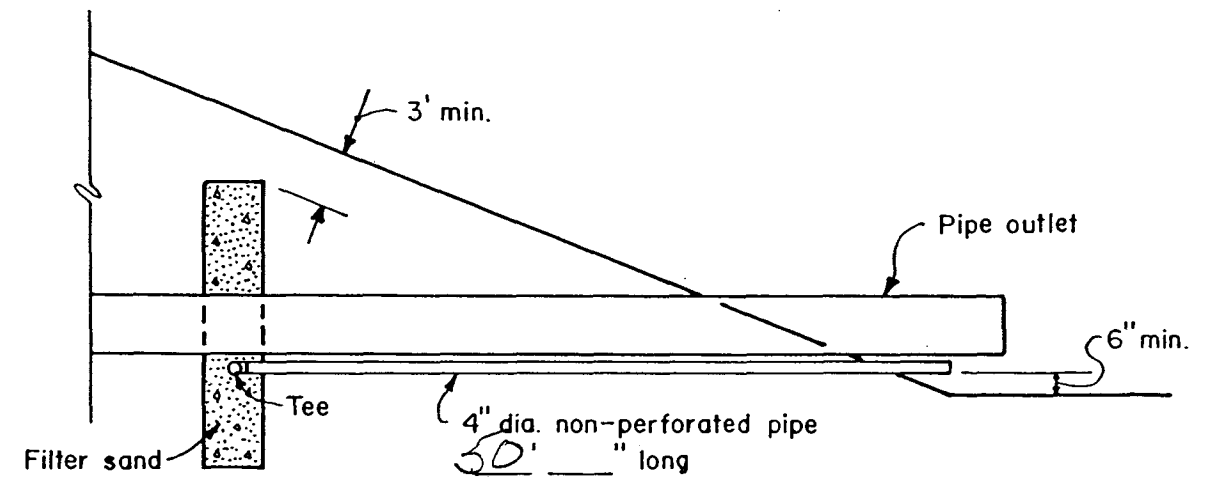
ISOMETRIC VIEW



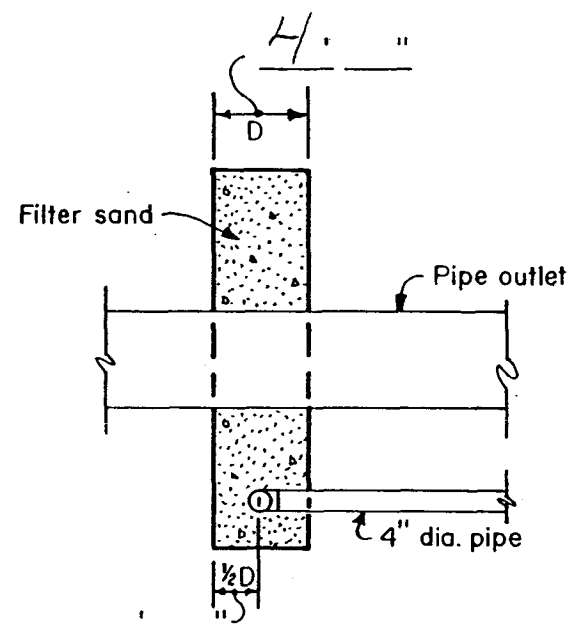
UPSTREAM VIEW

NOTE:

1. THE 4" DIA. PIPE SHALL BE ASTM D1785, SCHEDULE 40, PVC.
2. PROVIDE AN ANIMAL GUARD ON DRAIN OUTLET PIPE. DRILL 2, 1/2" DIA. HOLES, ON ϕ 6" FROM END OF PIPE AND PLACE A 3/8" DIA., 5 1/2" LONG GALVANIZED STEEL BOLT THRU THEM AND SECURE WITH A NUT (PLACE BOLT HORIZONTAL).



OUTLET DETAIL



SIDE VIEW

FILTER GRADATION

SIEVE SIZE	PERCENT PASSING
3/8"	100
4	95-100
8	80-100
16	50-85
30	25-60
50	10-30
100	2-10

See spec SD-9
52 cy

Sec. _____, T. _____, R. _____

County
LOCATION

SAND ANTISEEP COLLAR

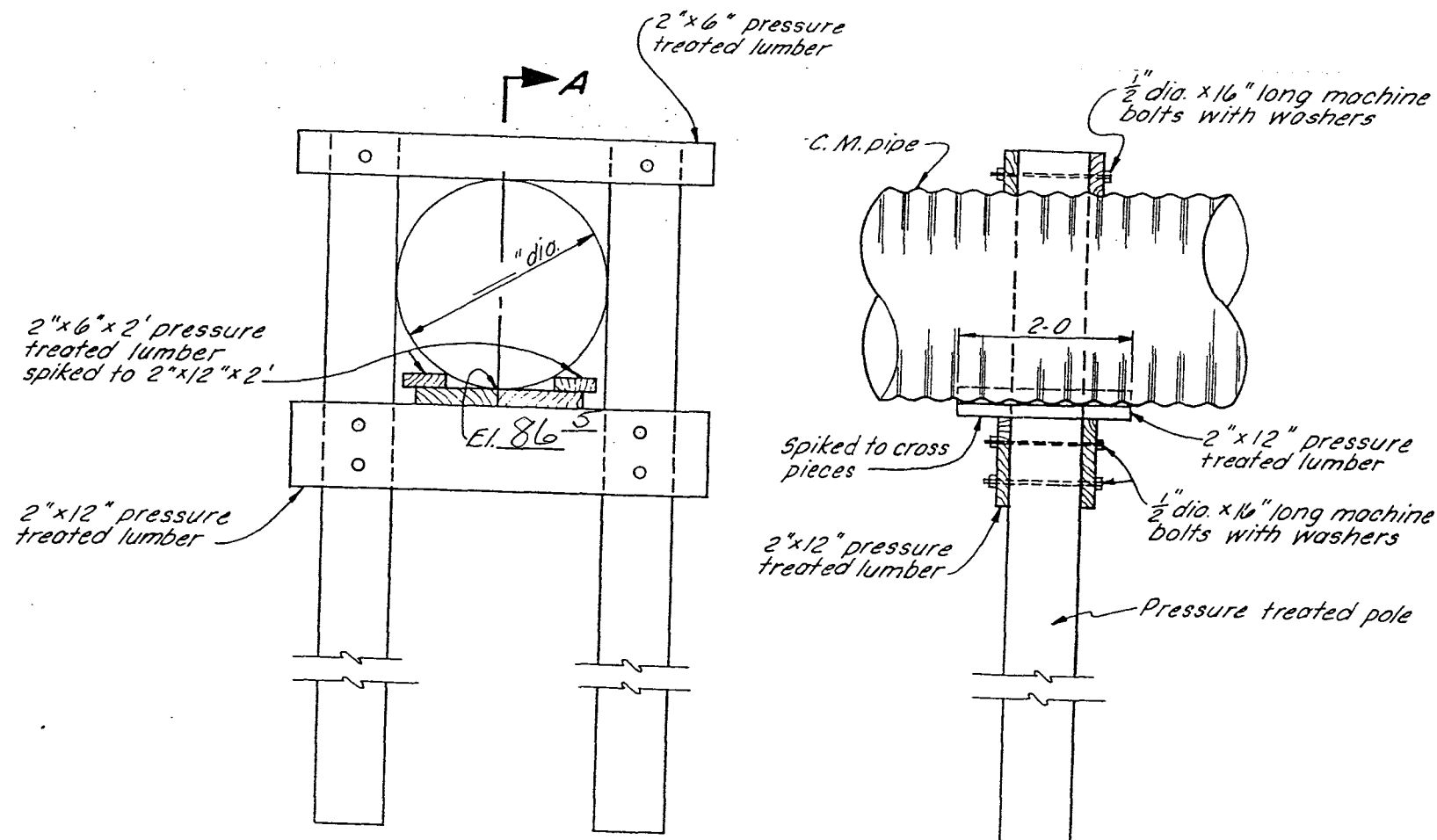
OPERATOR Jeffery Gregg

CONSERVATION DISTRICT _____

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Date	Approved by
Designed	Title
Drawn	Title
Traced	Sheet No.
Checked	Drawing No.

JOB PLAN NO. 3.8



ELEVATION
SECTIONAL ELEVATION A-A

TABLE OF QUANTITIES

ITEM	LENGTH FOR 60" DIA. C.M. PIPE	UNIT	QUANTITY
PRESSURE TREATED POLE 10" DIA.	12-0	EACH	2
2" X 12" PRESSURE TREATED LUMBER	8-0	EACH	2
2" X 6" PRESSURE TREATED LUMBER	8-0	EACH	2
2" X 12" PRESSURE TREATED LUMBER	2-0	EACH	4
2" X 6" PRESSURE TREATED LUMBER	2-0	EACH	2
1/2" DIA. MACHINE BOLTS WITH NUTS	1-4	EACH	10
1/2" DIA. WASHERS		EACH	20

REFERENCE: GUIDE PLAN NO. 4.0

NOTES:

- HAND OR MACHINE TAMP BACKFILL THOROUGHLY AROUND FOOTINGS AND COLUMNS.

TIMBER PIPE SUPPORT

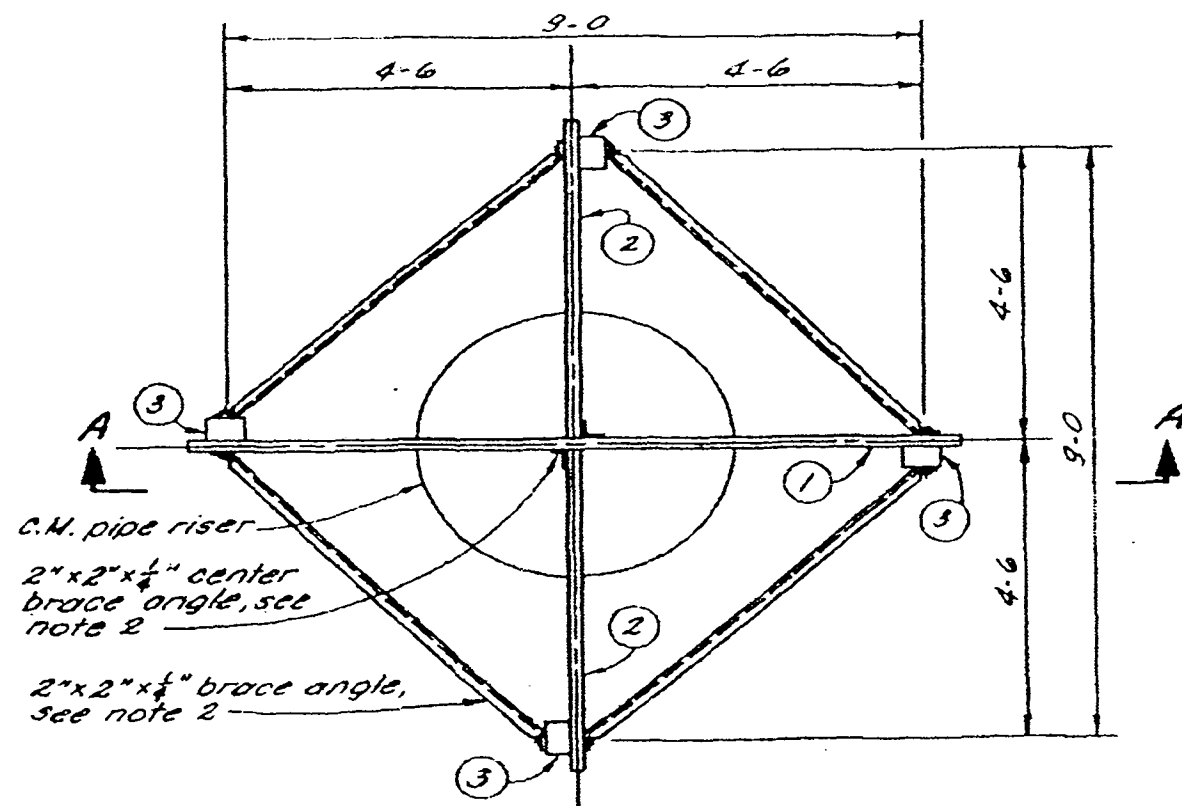
OPERATOR: Jeffery Gregg

CONSERVATION DISTRICT: _____

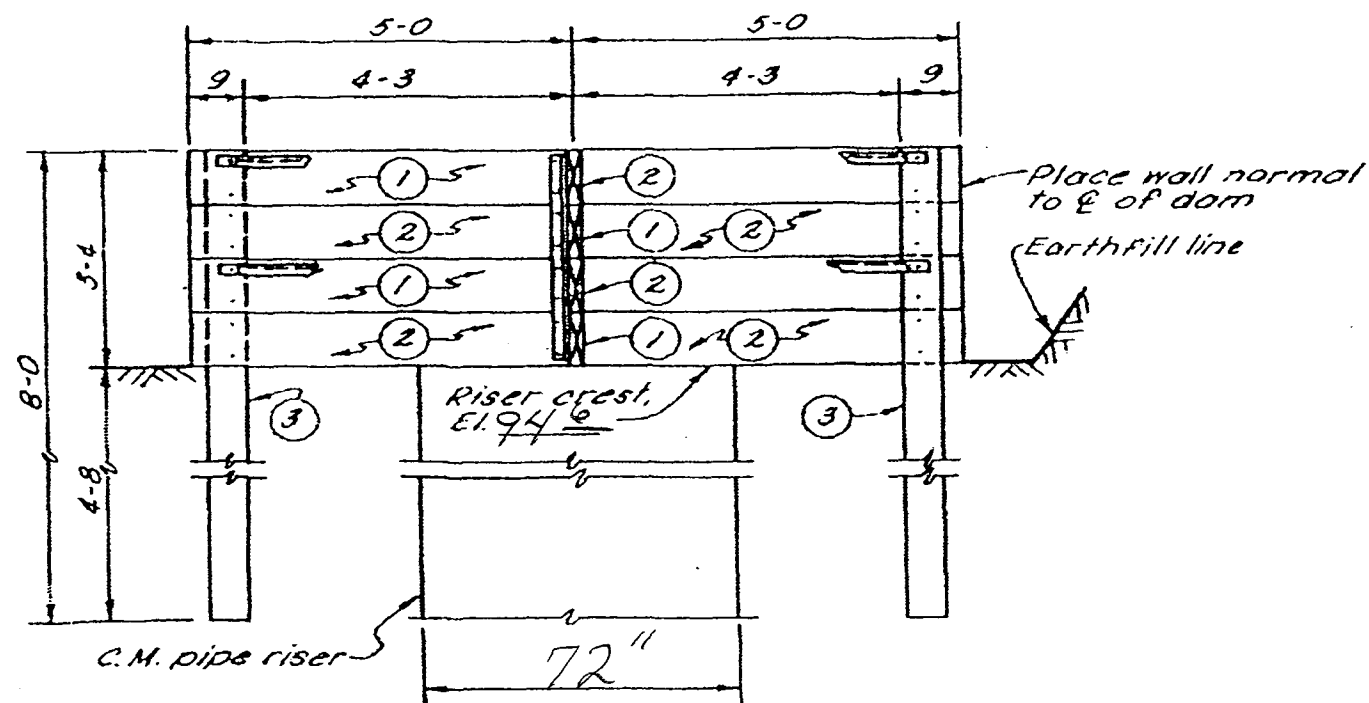
Designed _____	Date _____	Approved by _____
Drawn _____		Title _____
Traced _____		Title _____
Checked _____	Sheet _____ of _____	Drawing No. _____

JOB PLAN NO. 4.0

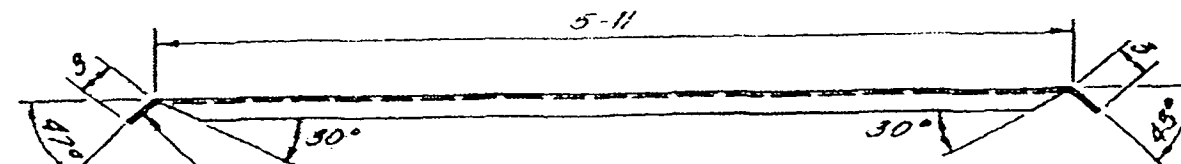
5, N-29,073.4a



PLAN VIEW



SECTIONAL ELEVATION A-A



PLAN VIEW OF BRACE ANGLE

TABLE OF QUANTITIES

ITEM	MARK	NO. REQ'D.	QUANTITY
2" X 10" X 10' PRESSURE TREATED LUMBER	1	4	67 BD.FT.
2" X 10" X 4'-11" PRESSURE TREATED LUMBER	2	8	66 BD.FT.
4" X 6" X 8' PRESSURE TREATED POST	3	4	64 BD.FT.
2" X 2" X 1/4" X 6'-5" STEEL ANGLE		8	164 LB.
2" X 2" X 1/4" X 3'-2" STEEL ANGLE		2	20 LB.
5/8" X 8" STEEL BOLTS, NUTS, 2 WASHERS		32	32 SETS
1/2" X 3" STEEL BOLTS, NUTS, 2 WASHERS		32	32 SETS

NOTES:

1. TO 4" X 6" POSTS (4 REQUIRED) BOLT 2" X 10" BOARDS USING TWO 5/8" X 8" BOLTS PER 2" X 10" BOARD. DO NOT PLACE BOLTS CLOSER THAN 1 1/2" FROM EDGE OF BOARD.
2. FOR CENTER BRACE ANGLES DRILL 8 - 9/16" HOLES 5/8" FROM OUTER EDGE OF EACH LEG OF EACH ANGLE AND CENTERED 5 1/4" APART ALONG THE LEG.
3. ATTACH BRACE ANGLES TO TOP BOLT ON TOP 2" X 10" BOARD AND TO TOP BOLT ON NEXT TO BOTTOM BOARD.

TRASH RACK AND BAFFLE
FOR RISER DIA. 24" THRU 36"

OPERATOR: Jeffery Gregg
CONSERVATION DISTRICT: _____

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed _____	Date _____	Approved by _____
Drawn _____		Title _____
Traced _____		Title _____
Checked _____		Drawn by _____

JOB PLAN NO. 6.4

5, N-29, 073.6-40

COMPUTATION SHEET

BY	DATE	PROJECT <u>Jeffery Greg</u>	SHEET ____ OF ____
CHKD BY	DATE	FEATURE <u>Sec 3, T39N, R25W</u>	
DETAILS			

<u>Gridline</u>	<u>length</u>
1	1.2
2	2.1
3	3.9
4	3.4
5	3.5
6	4.9
7	4.5
A	1.8
B	4.6
C	5
D	5.8
E	5.5
F	1.5

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WATER RIGHTS
PROGRAM

$$47.7' \times 2000 \frac{ft}{in} = 95,400 ft$$

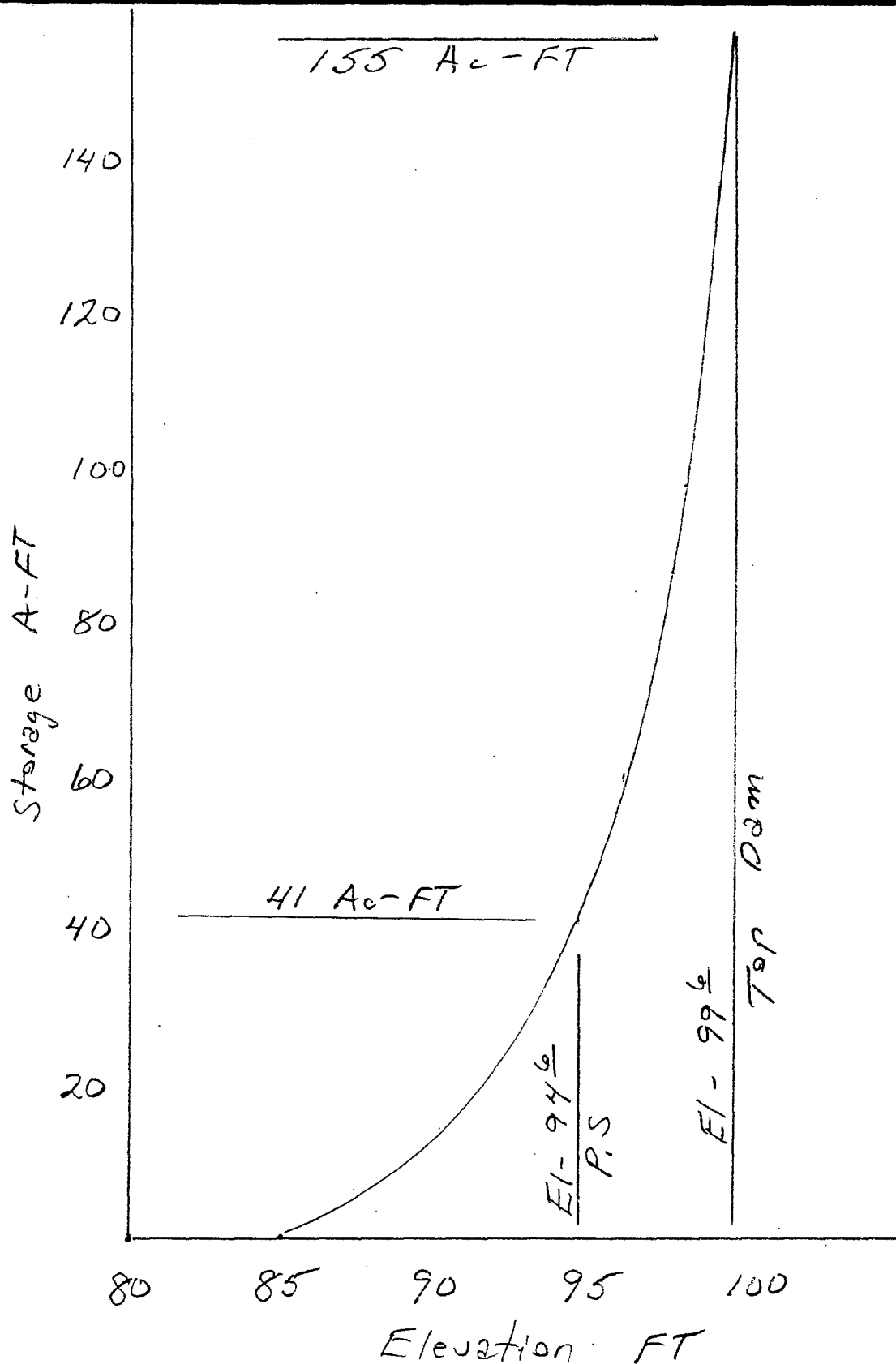
<u>Contour</u>	<u>Grid Crossing</u>	3.251
650	5	
660	7	
665	3	
670	7	
675	12	
680	16	
685	11	
690	10	
695	11	
700	21	
710	103	

$$S = \frac{1.571 (1.6) (103)}{95400} = 0.027 \times 100 = 2.7\%$$

COMPUTATION SHEET

BY	DATE	PROJECT	SHEET ____ OF ____
CHKD BY	DATE	FEATURE	
DETAILS			

Jeffery Gregg
Sec 3, T 39 N, R 25 W





11/99 Rev
Sheet 1 of 4

Field Office: Pierre
Date: 17-Jul-08
Date: _____

7085cy

1*****
 SITES XEQ 07/13/2008 WATER RESOURCE SITE ANALYSIS COMPUTER PROGRAM
 VER 2000 (USER MANUAL - DATED MAY 2001)
 TIME 14:33:36

***** 80-80 LIST OF INPUT DATA *****

SITES 05/01/2000 Jeffery Gregg 3.4703125 H5
 SAVMOV 0 101
 SAVMOV 101 1 1
 STRUCTURE

86 0
 90 3.1
 92 7.6
 94 10.1
 96 15.5
 98 22.3

72" - 60"

ENDTABLE
 WSDATA 5A1 AC 75 2221 24394 .7
 PDIRECT 3 .00 4.10
 POOLDATA ELEV 94.6 94.6 84 84 SC
 PSINLET 1 21.98
 PSDATA 1 76 60 .025 86
 ASDATA 41 300 180 2 .05 2
 ASINSURF 41 .03
 ASINLET 41 0.0 0.0 80 0.0 3
 130 5

ENDTABLE
 ASEXSURF 41 .035
 .65 0
 3
 2 0
 .02

ENDTABLE
 ASEXIT 41 N 100
 BTMWIDTH FEET 100
 GRAPHICS I
 GO,DESIGN HL TYPE2 24 TYPE2378 24
 SAVMOV 2 101 1
 ENDJOB

***** MESSAGE - ALTERNATE STRUCTURE ID (S 1) BEING USED
 SINCE USER DID NOT INPUT AN ID.

***** MESSAGE - ALTERNATE SUBWATERSHED ID (A) BEING USED SINCE
 USER DID NOT INPUT AN ID.

***** MESSAGE - DRAINAGE AREA FROM WSDATA CONTROL BEING CONVERTED FROM
 ACRES TO SQUARE MILES FOR COMPUTATION PURPOSES.

1SITES _____
 XEQ 07/13/2008 Jeffery Gregg WSID=

VER 2000 SUBW= A
TIME 14:33:36 SITE = S 1 PASS= 1 PART= 1

***** BASIC DATA *****
CLIMATE AREA - NOT DEFINED DESIGN CLASS A1 = LT 3000.

STORM DISTRIBUTION-PSH 24 HOUR TYPE II RAINFALL DISTRIBUTION

STORM DISTRIBUTION AUX. -24 HOUR TYPE II RAINFALL DISTRIBUTION

PRECIP. - P-PS,1-DAY P-PS,10-DAY P-SD P-FB
 3.00 0.00 0.00 4.10

WSDATA - CN DA-SM TC/L -/H QRF
 75.00 3.47 24394.00 0.70 0.00

SITEDATA- PERM POOL CREST PS FP SED VALLEY FL 378?
 94.60 94.60 0.00 84.00 YES

 BASEFLOW INITIAL EL EXTRA VOL SITE TYPE
 0.00 0.00 0.00 DESIGN

PSDATA - NO. COND COND L DIA/W -/H
 1.00 76.00 60.00 0.00

 PS N KE WEIR L TW EL
 0.025 1.00 21.98 86.00

 2ND STG ORF H ORF L START AUX.
 0.00 0.00 0.00 0.00

ASCRESTS - AUX.1 AUX.2 AUX.3 AUX.4 AUX.5
 0.00 0.00 0.00 0.00 0.00

AUX.DATA - REF.NO. RETARD. Ci TIE STATION INLET LENGTH
 41 0.00 300.00 180

AUX.DATA - INLET N SIDE SLOPE EXIT N EXIT SLOPE ACTUAL AUX?
 0.030 2.00 0.035 0.050 NO

BTM WIDTH - BW1 BW2 BW3 BW4 BW5
 ft 100.00 0.00 0.00 0.00 0.00

AUXILIARY SPILLWAY RATING DEVELOPED USING WSPVRT.

1SITES _____
XEQ 07/13/2008 Jeffery Gregg WSID=
VER 2000 SUBW= A
TIME 14:33:36 SITE = S 1 PASS= 1 PART= 2

PERM POOL 94.60 FT 41.1 ACFT 11.72 AC 0.0 CFS

CREST PS 94.60 FT 41.1 ACFT 11.72 AC 0.0 CFS
 SED ACCUM 94.60 FT 41.1 ACFT 11.72 AC 0.0 CFS
 START ELEV 94.60 FT 41.1 ACFT 11.72 AC 0.0 CFS

NRCS-PSH D= 24.00 HR P= 3.00 IN Q= 0.96 IN DA= 3.47 SM
 TC= 9.47 HR CN= 75.00 VOL= 177.8 ACFT

PEAK = 202.3 CFS, AT 18.4 HRS.

ROUTED RESULT - HYD TYPE EMAX VOL-MAX AMAX QMAX
 NRCS-PSH 96.55 FT 69.2 ACFT 17.36 AC 185.3 CFS

PS STORAGE 28.0 ACFT, BETWEEN AUX. CREST AND SED. ACCUM ELEVATIONS.

DRAWDOWN (DDT) TEST 94.60 FT 41.1 ACFT 0.00 CFS
 CONTROL IS 0.000 DETENTION STORAGE

TIME = 1.49 DAYS, TO 0.0 CFS (LIMIT = 10.00 DAYS)

RATING TABLE DEVELOPED, SITE = S 1:
 BY PROGRAM FOR PS AND AUX. SPILLWAYS
 AUX. RATING USED WSPVRT METHOD.

RATING TABLE NUMBER 1

	ELEV. FEET	Q-TOTAL CFS	Q-PS CFS	Q-AUX. CFS	VOLUME AC-FT	AREA ACRE
1	94.60	0.00	0.00	0.00	41.15	11.72
2	95.28	38.04	38.04	0.00	49.71	13.55
3	95.96	107.59	107.59	0.00	59.52	15.38
4	96.63	197.66	197.66	0.00	70.71	17.66
FULL CONDUIT FLOW, ELEV = 97.31 FT						
5	97.31	304.31	304.31	0.00	83.46	19.96
6	97.40	305.54	305.54	0.00	85.19	20.25
7	97.48	306.69	306.69	0.00	86.95	20.55
8	97.57	307.84	307.84	0.00	88.72	20.84
9	97.66	308.98	308.98	0.00	90.53	21.13
10	97.74	310.12	310.12	0.00	92.36	21.42
11	97.83	311.25	311.25	0.00	94.21	21.72
12	97.91	312.38	312.38	0.00	96.09	22.01
13	98.00	313.50	313.50	0.00	98.00	22.30

1SITES

XEQ 07/13/2008	Jeffery Gregg	WSID=
VER 2000		SUBW= A
TIME 14:33:36	SITE = S 1	PASS= 1 PART= 3

AUX. CREST 96.55 FT 69.2 ACFT 17.36 AC 185.3 CFS

PS STORAGE 28.0 ACFT, BETWEEN AUX. CREST AND SED. ACCUM ELEVATIONS.

START ELEV 94.60 FT 41.2 ACFT 11.72 AC 0.0 CFS

EFFECTIVE HEIGHT(H)= 12.5 FEET, PRODUCT= 868. (H * STORAGE AT CREST AUX.).

INPUT DESIGN CLASS = A1 = LT 3000. PRODUCT.

NRCS-FBH D= 24.00 HR P= 4.10 IN Q= 1.74 IN DA= 3.47 SM
TC= 9.47 HR CN= 75.00 VOL= 322.4 ACFT

PEAK = 379.4 CFS, AT 18.4 HRS.

RATING TABLE DEVELOPED, SITE = S 1:
BY PROGRAM FOR PS AND AUX. SPILLWAYS
AUX. RATING USED WSPVRT METHOD.

RATING TABLE NUMBER 2

	ELEV. FEET	Q-TOTAL CFS	Q-PS CFS	Q-AUX. CFS	VOLUME AC-FT	AREA ACRE
1	94.60	0.00	0.00	0.00	41.15	11.72
2	94.82	6.85	6.85	0.00	43.74	12.30
3	95.03	19.38	19.38	0.00	46.47	12.89
4	95.25	35.60	35.60	0.00	49.32	13.47
5	95.46	54.82	54.82	0.00	52.29	14.06
6	95.68	76.61	76.61	0.00	55.40	14.64
7	95.90	100.70	100.70	0.00	58.63	15.22
8	96.11	126.90	126.90	0.00	61.98	15.89
9	96.33	155.04	155.04	0.00	65.50	16.62
10	96.55	185.00	185.00	0.00	69.17	17.36
11	96.80	238.08	222.57	15.51	73.72	18.23
12	97.06	315.37	262.38	52.99	78.48	19.09
FULL CONDUIT FLOW, ELEV = 97.31 FT						
13	97.31	421.61	304.32	117.30	83.46	19.96
14	97.41	449.89	305.70	144.19	85.44	20.29
15	97.51	484.22	307.02	177.20	87.45	20.63
16	97.61	519.10	308.33	210.78	89.50	20.96
17	97.71	553.98	309.63	244.35	91.57	21.30
18	97.80	599.54	310.93	288.61	93.68	21.63
19	97.90	645.55	312.22	333.33	95.82	21.97
20	98.00	691.56	313.50	378.06	98.00	22.30

SUMMARY OF AUXILIARY SPILLWAY SURFACE CONDITIONS USED IN COMPUTATIONS BY REACH

REACH	FROM STA (ft)	TO STA (ft)	SLOPE (%)	RETARDANCE CURVE INDEX@	VEGETAL COVER FACTOR	MAINT. CODE (ft)	ROOTING DEPTH *	REACH
1	120.	220.	-10.0	0.030	**	**	**	INLET
2	220.	300.	0.0	0.030	**	**	**	CREST

3 300. 400. 5.0 0.035 0.65 3 2.0 EXIT !

@ The program interprets retardance curve index entries of less than 1 as Manning's n values.

* Upper case indicates a reach of constructed spillway channel.

** The program does not use vegetal cover factor, maintenance code, and rooting depth for inlet and crest reaches in computations.

! Reach 3 used in computing exit channel velocities.

DRAWDOWN USING FREEBOARD STORM FOLLOWS, STARTING AT ELEVATION 96.55 FT.

DRAWDOWN (DDT) TEST 94.60 FT 41.1 ACFT 0.00 CFS
CONTROL IS 0.000 DETENTION STORAGE

TIME = 1.71 DAYS, TO 0.0 CFS (LIMIT = 10.00 DAYS)

ROUTED	BTM WIDTH	MAX ELEV	VOL-MAX	AREA-MAX	AUX.-HP	VOL-AUX.
RESULTS	FT	FT	ACFT	AC	FT	ACFT
NRCS-FBH	100.0	97.19	81.1	19.6	0.65	11.9

PEAK - CFS	Q-PS	Q-AUX.	Q-TOT.
DISCHARGE =	284.3	86.7	371.0

	CRITICAL DEPTH	CRITICAL VELOCITY	CRITICAL SLOPE-Sc	25% OF Q Sc
AUXILIARY	FT	FT/SEC	FT/FT	FT/FT
SPILLWAY —	0.29	3.02	0.027	0.037

EFFECTIVE STRESS FOR STABILITY ANALYSIS OF AUX. EXIT CHANNEL
(Refer to Ag. Handbook 667, Chapt. 3, for allowable stresses.)
Aux. Discharge = 87. cfs; Bottom Width = 100. ft

REACH	FROM	TO	SLOPE	MANNING'S	VELOCITY	STRESS
NO.	STA	STA	%	n	ft/s	lb/ft^2
3	300.	400.	5.00	0.035	3.63	0.451

AUXILIARY SPILLWAY DURATION FLOW = 9.5 HOURS
ATTACK, OE/B = 0.3 ACFT/FT

***** MESSAGE - NHCP378 CRITERIA USED BUT AUXILIARY SPILLWAY RATING NOT
BASED ON ASFILE RATINGS.

EXIT CHANNEL FLOW SUPERCRITICAL: MAX VELOCITY= 3.6 FT/SEC
EXIT SLOPE = 0.050 FT/FT
FLOW DEPTH = 0.2 FT

>>>>> NHCP378 RUN - MINIMUM FLOW IN AUX. SPILLWAY FROM TR60
USING FORMULA WITHOUT 200 CFS MINIMUM LIMIT (438. CFS).

ROUTED	BTM WIDTH	MAX ELEV	VOL-MAX	AREA-MAX	AUX.-HP	VOL-AUX.
--------	-----------	----------	---------	----------	---------	----------

RESULTS	FT	FT	ACFT	AC	FT	ACFT
MIN. AUX.	100.0	98.13	100.9	22.7	1.58	31.7

PEAK - CFS Q-PS Q-AUX. Q-TOT.
DISCHARGE = 315.2 437.7 752.9

	CRITICAL	CRITICAL	CRITICAL	25% OF Q
	DEPTH	VELOCITY	SLOPE-Sc	Sc
AUXILIARY	FT	FT/SEC	FT/FT	FT/FT
SPILLWAY —	0.84	5.15	0.019	0.026

***** WARNING - SOLUTION EXCEEDED MAX. INPUT ELEVATION (98.00) BY 0.13 FT.

>>>>> NHCP378 RUN - MINIMUM DEPTH, CREST AUX. TO TOP OF DAM IS 2.00 FT.
NEW TOP OF DAM ELEVATION = 98.55.

ROUTED	BTM WIDTH	MAX ELEV	VOL-MAX	AREA-MAX	AUX.HP	VOL-AUX.
RESULTS	FT	FT	ACFT	AC	FT	ACFT
MINIMUM AUX.	100.0	98.55	110.1	24.1	2.00	40.9

PEAK - CFS Q-PS Q-AUX. Q-TOT.
DISCHARGES = 320.2 627.0 947.3

	CRITICAL	CRITICAL	CRITICAL	25% OF Q
	DEPTH	VELOCITY	SLOPE-Sc	Sc
AUXILIARY	FT	FT/SEC	FT/FT	FT/FT
SPILLWAY —	1.06	5.79	0.018	0.024

***** WARNING - SOLUTION EXCEEDED MAX. INPUT ELEVATION (98.00) BY 0.52 FT.

INFLOW HYD 1 PSH-PEAK = 185.29 CFS AT 20.48 HRS, LOCATION POINT

INFLOW HYD 1 FBH-PEAK = 371.03 CFS AT 18.90 HRS, LOCATION POINT
HYDOUT 1

1SITES....JOB NO. 1 COMPLETE.

Jeffery Gregg

0 SUBWATERSHED(S) ANALYZED.

1 STRUCTURE(S) ANALYZED.

2 HYDROGRAPHS ROUTED AT LOWEST SITE.

0 TRIALS TO OBTAIN BOTTOM WIDTH FOR SPECIFIED STRESS OR VELOCITY.

SITES.....COMPUTATIONS COMPLETE

```
>>> SITE SUBWS SUBWS DA CURVE TC TOTAL DA TYPE STRUC <<<
      ID  ID  (SQ MI) NO. (HRS) (SQ MI) DESIGN CLASS
      ---  ---  ---  ---  ---  ---  ---
      S 1  A   3.47  75.  9.47   3.47  378CR  A1
```

```
PASS DIA./ AUX.CREST BTM. MAX. MAX. EMB. INTEGR.* EXIT* TYPE
NO. WIDTH ELEV WIDTH HP ELEV VOL. DIST. VEL.  HYD
  (IN/FT) (FT)  (FT) (FT) (FT) (CY) (FT) (FT/SEC)
  ---  ---  ---  ---  ---  ---  ---  ---
  1  60.0  96.6 100.0  2.0  98.6   0.   0.   3.6 MIN. AUX.
```

* INTEGRITY DIST. AND EXIT VEL. ARE BASED ON THE ROUTED HYDROGRAPH
AND WILL NOT RELATE TO THE MAX. ELEV. (TOP OF DAM),
WHICH IS SET BY MINIMUM DESIGN CRITERIA.

SITES.....SUMMARY TABLE 1 COMPLETED.

NRCS SITES VERSION 2000 ,05/01/2000
FILES

INPUT
C:\data\Engineering\sites\Gregg\72-60.D2C

OUTPUT - DATED 07/13/2008 14:33:36
C:\data\Engineering\sites\Gregg\72-60.OUT

GRAPHICS FILES GENERATED

OPTION "L" DATED 07/13/2008 14:33:36
C:\data\Engineering\sites\Gregg\72-60.DRG

OPTION "P" DATED 07/13/2008 14:33:36
C:\data\Engineering\sites\Gregg\72-60.DHY

OPTION "E" DATED 07/13/2008 14:33:36
C:\data\Engineering\sites\Gregg\72-60.DEM

Jeffery Gregg

P. Spillway Elev. - 94.66
D/S Emb. Toe Elev. - 87.66 } - H.H. = 12 ft.

Int. Storage Capacity - 70 Ac-Ft
Max. Storage Capacity - 155 Ac-Ft

Minimum Spillway Design

Region C $DA = 2221$ $A_c = 3.47 \text{ m}^2$

$$\begin{aligned} Q_{100} &= 379 \text{ CA}^{.566} \\ &= 379 (3.47)^{.566} \\ &= 379 (2.0222) \\ &= \underline{766 \text{ cfs}} \end{aligned}$$

$$\begin{aligned} Q &= CLH^{3/2} & C &= 2.6 \\ &= (2.6)(100)(3)^{1.5} & L &= 100 \\ &= \underline{1350 \text{ cfs}} & H &= 3 \end{aligned}$$
$$DA = 2221 \quad CN = 75' \quad IS_2 = 2\frac{1}{2}$$
$$DA = 2221 \quad CN = 75' \quad IS_2 = 2\frac{1}{2}$$

- 80% chance = 9.17
 $0.17 \times 222\frac{1}{2} = \underline{\underline{31 A_c-Ft}}$
- 50% chance = 0.45
 $0.45 \times 222\frac{1}{2} = \underline{\underline{83 A_c-Ft}}$
- 10% chance = 2.2
 $2.2 \times 222\frac{1}{2} = \underline{\underline{407 A_c-Ft}}$

50% chance = 0.45
 $0.45 \times 222\frac{1}{2} = 83 \text{ Ac-ft}$

10% chance = 2.2
2.2 x 221/12 = 407 A-Ft



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

August 20, 2008

Syed Huq
Water Resources
Rosebud Sioux Tribe
PO Box 910
Rosebud SD 57570

Mr. Huq:

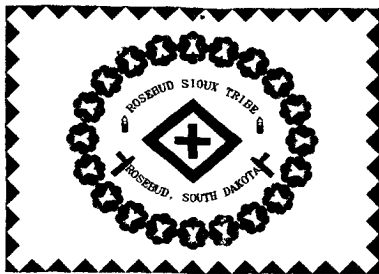
Mr. Jeffery J. Gregg has filed a water right permit application with the state of South Dakota to construct a dam in Todd County. The application and draft staff report prepared by Tim Schaal is enclosed for your review. Please contact Tim Schaal or myself at 605 773-3352 if the Rosebud Sioux Tribe has additional information or concerns on this application.

This information is being sent to you as part of the DENR's commitment to keep the Rosebud Sioux Tribe informed of water permitting issues in Todd County. Please let us know by September 10, 2008 if there are concerns that the Tribe feels need to be addressed. After this date, the application will be public noticed. I will ensure that you are provided a copy of the final report, recommendation and public notice when the notice is set to be published.

Sincerely,

Eric Gronlund
Water Rights Program
(605) 773-3352

enclosures



Rosebud Sioux Tribe

Sicangu Oyate

P.O. Box 430

Rosebud, SD 57570

Phone 605-747-2381 - Fax 605-747-2243

Rodney M. Bordeaux
President
William "Willie" Kindle
Vice President
Louis Wayne Boyd
Treasurer
Gerri Night Pipe
Secretary
Webster Two Hawk
Sergeant-at-Arms

September 25, 2008

RECEIVED

SEP 26 2008

WATER RIGHTS
PROGRAM

Mr. Eric Gronlund
Water Rights Program
DENR
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3182

Dear Mr. Gronlund:

This is in reference to the water permit application filed by Mr. Jeffery J. Gregg. Upon review of the location of the proposed dam (copy of a location map/photo attached) it is apparent that the Tribe has a dam down gradient from the proposed dam. The Tribal dam was heavily impacted by erosion. However, the proposed dam will have adverse impact on the tribal dam and the Tribal lands around, should the Tribe restore the dam. The erosion potential of the proposed dam and its impact must be carefully evaluated. If you have any questions or comments, please give me a call at (605) 747-2559. Thank you.

Sincerely,

Syed Huq, Director
Water Resources & Environment

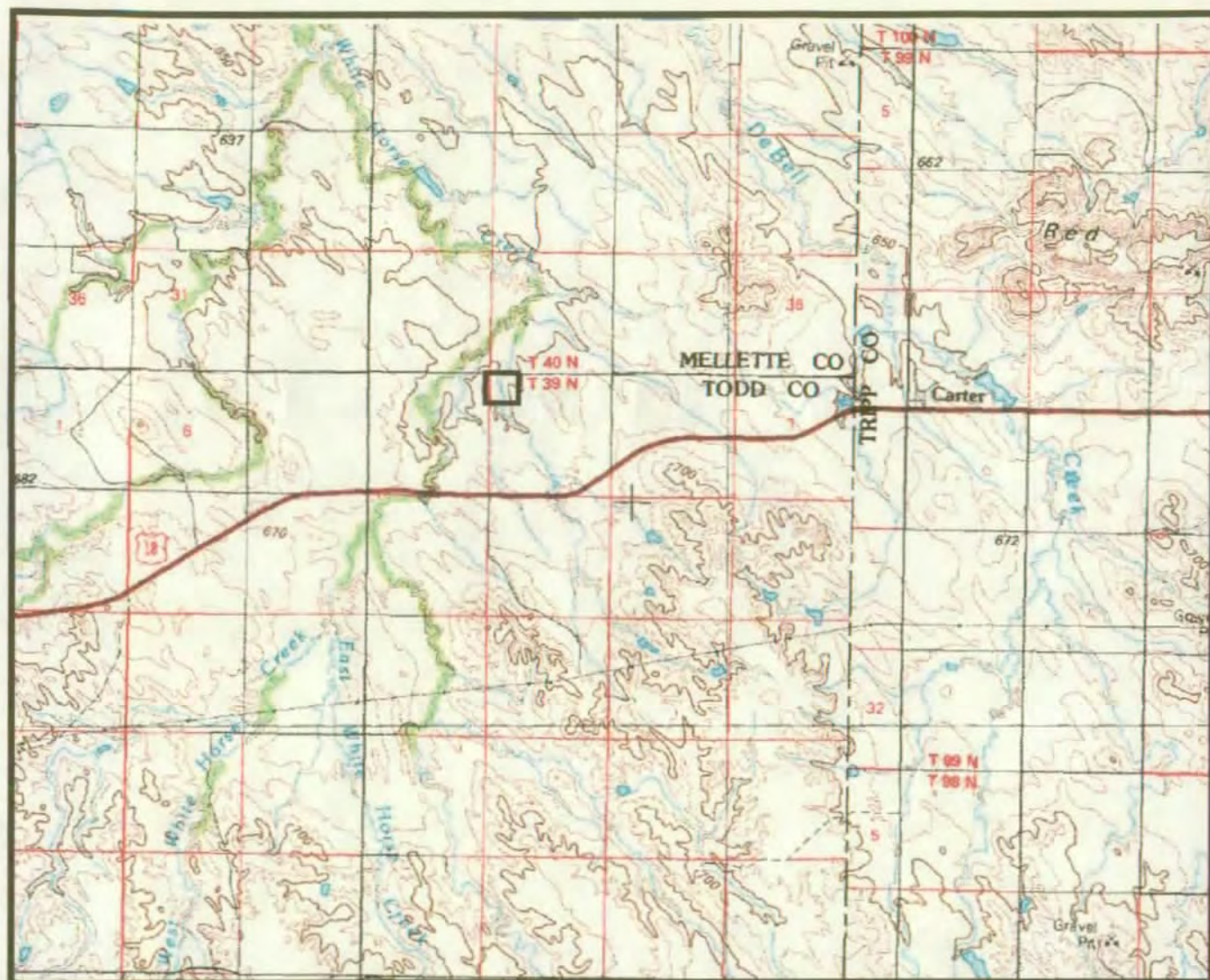
Enclosure

T-188.5

T-188

Tribal Dam

Proposed
Irrigation Dam Site
NWNW 3-39-25
6th PM Todd County





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 2636-2, Jeffery J Gregg**

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. 2636-2, Jeffery J Gregg, 29272 US Hwy 18, Carter SD 57580.

The Chief Engineer is recommending APPROVAL of Application No. 2636-2 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. Water Permit No. 2636-2 authorizes a dam with a storage capacity of 41.0 acre feet of water and sufficient water annually to maintain the water level to the outlet elevation.
2. Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.

See report on application for additional information.

Garland Erbele, Chief Engineer
September 12, 2008

REPORT ON
WATER PERMIT APPLICATION NO. 2636-2
Jeffery J. Gregg
August 14, 2008

Water Permit Application No. 2636-2 has been filed by Jeffery J. Gregg to impound 41 acre-feet of water from runoff by constructing a dam located in the NW ¼ NW ¼ of Section 3-T39N-R25W, in Todd County. The application also requests impoundment of sufficient water to maintain water to the outlet elevation. The water will be used for fish and wildlife production and livestock water purposes.

Discussion:

The dam will be classified as a small size, Category 3, Low Hazard dam. The dam has been designed by Konechne Engineering. The plans and specifications have been reviewed and will be approved; however, construction of the dam can not begin until Water Permit Application No. 2636-2 is approved.

The dam will be 12 feet high with a normal storage capacity of 41 acre-feet with a reservoir level at the primary spillway elevation, and a maximum storage capacity of 155 acre-feet with a reservoir level at the top of dam elevation. A dam of this size and hazard classification is required to have a minimum spillway design capable of passing a 25-year frequency event.

The dam has a drainage area of 1221 acres or 3.47 square miles. The dam is designed to have a 72 inch diameter CMP riser with a 60 inch diameter CMP barrel and 5.0 feet of freeboard as the primary spillway, and a 100 foot wide earthcut secondary spillway with 3 feet of freeboard. A 25 year frequency event produces a peak runoff of approximately 423 cfs and a 100 year frequency event produces a peak runoff of approximately 766 cfs. The earthcut spillway will have a capacity of approximately 1350 cfs.

The annual yield for this drainage area with an 80 percent chance of occurrence, or 8 out of 10 years, is expected to be 31 acre-feet. The annual yield with a 50 percent chance of occurrence, or 1 out of 2 years, is expected to be 83 acre-feet and the annual yield with a 10 percent chance, or 1 out of 10 years, is expected to be 400 acre-feet.

The Gregg Dam will be located in the NW ¼ NW ¼ of Section 3-T39N-R25W on an unnamed tributary to White Horse Creek, about three-fourths of a mile upstream of the confluence of the unnamed tributary and White Horse Creek. Location Notice No. 6239-2 was filed in 1952 by Evelyn Big Tail for 3 ac-ft of storage in a small dam located about one-quarter of a mile downstream of the proposed Gregg dam. Based on the expected 83 acre-feet of runoff from a 50 percent chance event, there should be enough runoff for both dams. There are no other existing Water Permits/Rights filed on the unnamed tributary between the proposed dam and White Horse Creek.

Conclusions:

1. Water Permit Application No. 2636-2 should be approved since unappropriated water is available and approval should not have any adverse effect on existing Water Permits/Rights.
2. If approved, the low flow bypass requirement for domestic use should be a qualification on Water Permit Application No. 2636-2.



Timothy G. Schaal, P.E.
Natural Resources Engineering Specialist



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

September 16, 2008

Jeffery Gregg
29272 US Hwy 18
Carter, SD 57580

Dear Mr. Gregg:

We have reviewed the plans and specifications for your dam project located in the NW ¼ NW ¼ of Sec. 3-T39N-R25W, in Todd County. The plans and specifications for the construction of the dam are approved. Approval of the plans and specifications does not authorize construction of the dam. The construction of the dam may not begin until Water Permit No. 2636-2 is approved.

Our review was to determine compliance with the requirements of the Water Management Board Safety of Dams Rules, Chapter 74:02:08. Approval of these plans and specifications does not release you, as owner of the dam, from the responsibility for operating and maintaining the dam in good repair to ensure the safety of the dam.

The dam will be classified as a small size Category 3, Low Hazard dam with a dam height of 12 ft. and a normal storage capacity of 41 acre-feet and a maximum storage capacity of 155 acre-feet.

If you have any questions, please feel free to contact us.

Sincerely,

Timothy G. Schaal, P.E.
Natural Resources Engineering Specialist
for Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

c: Joe Nichols, USFWS
Dave Konechne

AFFIDAVIT OF PUBLICATION

State of South Dakota
County of Todd

RECEIVED

OCT 14 2008

WATER RIGHTS
PROGRAM

Manoy K. Scherer, being duly sworn,
says: That The Todd County Tribune is, and dur-
ing all the times hereinafter mentioned was, a
weekly legal newspaper as defined in SDCL 17-2-
2.1 through 17-2-2.4 inclusive, as amended,
published at Mission, Todd County, South
Dakota by Huether Brothers Publishing, Inc.;
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 of advertise-
ment, a printed copy of which is attached, was
published in said newspaper for 2 suc-
cessive issues, bearing the following dates:

September 24, 2008
October 1, 2008

that the full amount of the fee charged for pub-
lishing the same, to-wit, the sum of
\$ 48.10, insures solely to the benefit of
the publisher of said newspaper; that no agree-
ment or understanding for the division of the fee
has been made with any person, and that no part
of the fee has been agreed to be paid by any
other person.

Manoy K. Scherer
Bookkeeper

Notice of Application No. 2636-2 to Appropriate Water

Notice is given that Jeffery J Gregg, 29272 US Hwy 18, Carter SD 57580 has filed an application for a water permit to impound 41 acre-feet of water from runoff by constructing a dam located in the NW 1/4 NW 1/4 Section 3 with water impounded in the NW 1/4 Section 3; all in T39N-R25W. This application requests impoundment of sufficient water to maintain water to the outlet elevation. The water is for fish and wildlife propagation and livestock water purposes.

Pursuant of SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2636-2 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is 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 hearing will be given to the applicant and any person filing petition.

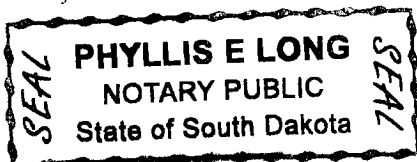
Any person both interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, 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 October 13, 2008.

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.

Pub.: September 24 and October 1, 2008

Subscribed and sworn to before me this 8th
day of October A.D., 2008.

Phyllis E. Long
Notary Public



My Commission Expires
August 30, 2012



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

September 16, 2008

Todd County Tribune
PO Box 229
Mission SD 57555

ATTENTION: Legal Public Notice

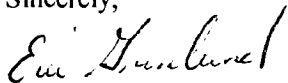
Enclosed is a Notice on Application No. 2636-2 to Appropriate Water to be published twice. Please publish the first notice on September 24, 2008 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

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 Jeffery J Gregg, 29272 US Hwy 18, Carter SD 57580 (Ph # 605-879-2242).

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. 2636-2

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

Date _____

We are in receipt of your letter of September 16, 2008 enclosing Notice to Appropriate Water by Application No. 2636-2 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

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

September 16, 2008

Jeffery J Gregg
29272 US Hwy 18
Carter SD 57580

Dear Mr. Gregg:

Water Permit Application No. 2636-2 for Fish and Wildlife 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 Todd County Tribune printed at Mission SD (Ph # 605-856-4469). 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

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 September 24, 2008 with the second publication 7 days later. The applicant is responsible for payment.

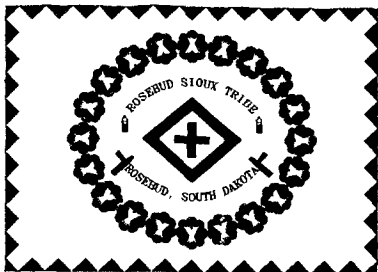
NOTICE OF APPLICATION NO. 2636-2 to Appropriate Water

Notice is given that Jeffery J Gregg, 29272 US Hwy 18, Carter SD 57580 has filed an application for a water permit to impound 41 acre-feet of water from runoff by constructing a dam located in the NW ¼ NW ¼ Section 3 with water impounded in the NW ¼ Section 3; all in T39N-R25W. This application requests impoundment of sufficient water to maintain water to the outlet elevation. The water is for fish and wildlife propagation and livestock water purposes.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2636-2 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 October 13, 2008.

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.



Rosebud Sioux Tribe

Sicangu Oyate

P.O. Box 430

Rosebud, SD 57570

Phone 605-747-2381 - Fax 605-747-2243

Rodney M. Bordeaux
President
William "Willie" Kindle
Vice President
Louis Wayne Boyd
Treasurer
Gerri Night Pipe
Secretary
Webster Two Hawk
Sergeant-at-Arms

RECEIVED

OCT 29 2008

**WATER RIGHTS
PROGRAM**

October 28, 2008

Mr. Garland Erbele, Chief Engineer
Water Rights Program
DENR
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3182

Re: Notice of Hearing on Water Permit Application No. 2626-2

Dear Mr. Erbele:

This is to inform you that I will not be available for the hearing as I will be overseas at that time. Please send letters to Mr. John Whiting, Assistant Director should there be any change in the hearing date. Thank you.

Sincerely,

Syed Huq, Director
Water Resources & Environment

CC: Mr. John Whiting, Assistant Director



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

September 16, 2008

Joe Nichols
US Fish and Wildlife Service
29746 Bird Road
Martin SD 57551

Mr. Nichols:

Please find enclosed the staff report, recommendation and publication notice for a water permit application filed by Mr. Jeffery J. Gregg. Notice is to be published September 24th and October 1st in the Todd County Tribune.

Sincerely,

Eric Gronlund
Water Rights Program
(605) 773-3352

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

September 16, 2008

Syed Huq
Water Resources
Rosebud Sioux Tribe
PO Box 910
Rosebud SD 57570

Mr. Huq:

Please find enclosed the staff report, recommendation and publication notice for a water permit application filed by Mr. Jeffery J. Gregg. Notice is to be published September 24th and October 1st in the Todd County Tribune.

This information is being sent to you as part of the DENR's commitment to keep the Rosebud Sioux Tribe informed of water permitting issues in Todd County.

Sincerely,

Eric Gronlund
Water Rights Program
(605) 773-3352

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

October 15, 2008

NOTICE

TO: Jeffrey J. Gregg
29272 US Hwy 18
Carter SD 57580

Syed Huq, Director
Water Resources & Environment
Rosebud Sioux Tribe
PO Box 430
Rosebud SD 57570

FROM: Garland Erbele, Chief Engineer
Water Rights Program

SUBJECT: Notice of Hearing on Water Permit Application No. 2636-2

A letter has been submitted concerning Water Permit Application No. 2636-2 by Syed Huq, Director of the Water Resources and Environment Department of the Rosebud Sioux Tribe. The letter was filed in response to the Notice of Application to appropriate water which was published in the Todd County Tribune printed in Mission SD. This letter constitutes a petition to intervene and therefore a hearing is being scheduled before the Water Management Board to consider this application.

Application No. 2636-2 proposes to impound 41 acre-feet of water from runoff by constructing a dam located in the NW ¼ NW ¼ Section 3 with water impounded in the NW ¼ Section 3; all in T39N-R25W, Todd County. This application requests impoundment of sufficient water to maintain water to the outlet elevation. The water is for fish and wildlife propagation and livestock water purposes.

The Water Management Board will conduct a hearing to consider Application No. 2636-2 at 2:00 PM on Tuesday, December 9, 2008 in the Floyd Matthew Training Center, Joe Foss Building, 523 E. Capitol Avenue, Pierre SD. Future notice will be provided to all parties if there are changes to the hearing time. Pursuant to SDCL 46-2-9, 46-2-11, and 46-2A-23, the Board has legal authority and jurisdiction to conduct this hearing.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2636-2 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. The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny the application based on the evidence presented at the public hearing.

The December 10, 2008, hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any party of record opposing the application. The request for an automatic delay must be filed by November 28, 2008.

This hearing may be an adversarial proceeding. Any party of record and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law.

Enclosed is a copy of the report, recommendation and petition in the matter of Water Permit Application No. 2636-2. State law directs the Chief Engineer to provide Water Management Board members with a copy of all pleadings including petitions for each proceeding. This same information will be sent to the Board members in advance of the hearing. In addition, enclosed are two documents intended to acquaint parties with the hearing process entitled "Procedure for Hearings before the Water Management Board" and "Summary of South Dakota Water Laws and Rules". You are encouraged to review these documents prior to the hearing.

The application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-16; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15, 46-2A-23; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

Questions regarding the hearing process may be directed to Eric Gronlund, Water Rights Program at (605) 773-3352. In addition, please notify the Department of Environment and Natural Resources at least 48 hours before the hearing if you have a disability for which special arrangements must be made at the hearing.

c: Diane Best, Assistant Attorney General
Joe Nichols, US Fish and Wildlife Service, 29746 Bird Road, Martin SD 57551

NOTE: Since this matter does not involve a monetary controversy in excess of \$2,500.00 or termination of a property right in accordance with SDCL 1-26-18.3, the Chief Engineer has determined this contested case need not be referred to the Office of Hearing Examiners. If any party disagrees with this determination, the Chief Engineer shall be notified by November 28, 2008.

CERTIFICATION

I hereby certify that on October 15, 2008, I have personally deposited with the United States mail at Pierre, South Dakota, first class postage, prepaid envelopes containing a Notice dated October 15, 2008, regarding hearing for Water Right Permit Application No. 2636-2, as addressed below:

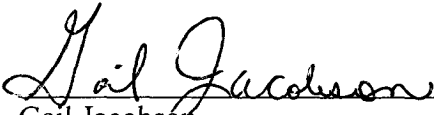
Jeffrey J. Gregg
29272 US Hwy 18
Carter SD 57580

Syed Huq, Director
Water Resources & Environment
Rosebud Sioux Tribe
PO Box 430
Rosebud SD 57570

Joe Nichols
US Fish and Wildlife Service
29746 Bird Road
Martin SD 57551

A copy of the above described Notice was sent Inter-office to:

Diane Best, Assistant Attorney General, 1302 E. Hwy 14, Suite 1, Pierre SD 57501-8501



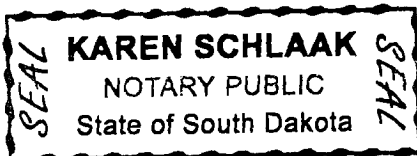
Gail Jacobson
Water Rights Program, DENR

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF HUGHES)

Sworn to, before me, this 15th day of October 2008.



Karen Schlaak
Notary Public
My Commission expires April 1, 2013





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

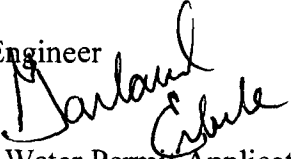
PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

November 13, 2008

NOTICE

TO: Jeffrey J. Gregg
29272 US Hwy 18
Carter SD 57580

John Whiting, Assistant Director
Water Resources & Environment
Rosebud Sioux Tribe
PO Box 430
Rosebud SD 57570

FROM: Garland Erbele, Chief Engineer
Water Rights Program 

SUBJECT: Location of Hearing on Water Permit Application No. 2636-2, Jeffrey J. Gregg

Application No. 2636-2 proposes to impound 41 acre-feet of water from runoff by constructing a dam located in the NW ¼ NW ¼ Section 3 with water impounded in the NW ¼ Section 3; all in T39N-R25W, Todd County. This application requests impoundment of sufficient water to maintain water to the outlet elevation. The water is for fish and wildlife propagation and livestock water purposes. In response to the public notice, the Rosebud Sioux Tribe filed a petition to intervene.

Notice was mailed to parties on October 15, 2008 scheduling a hearing before the Water Management Board. This notice is being sent to inform parties of a change in the meeting location.

The Water Management Board will conduct a hearing to consider Application No. 2636-2 at 2:00 PM on Tuesday, December 9, 2008 in the **Pierre Chamber of Commerce meeting room, 800 West Dakota Avenue, Pierre SD**. Future notice will be provided to all parties if there are any other changes.

Applicable provisions of the public notice published September 24 and October 1, 2008 in the Todd County Tribune and the notice dated October 15, 2007 will still apply. This hearing may be an adversarial proceeding. Any party of record has the right to be present and to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law.

c: Diane Best, Assistant Attorney General
Joe Nichols, US Fish and Wildlife Service, 29746 Bird Road, Martin SD 57551

CERTIFICATION

I hereby certify that on November 13, 2008, I have personally deposited with the United States mail at Pierre, South Dakota, first class postage, prepaid envelopes containing a Notice dated November 13, 2008, regarding hearing for Water Right Permit Application No. 2636-2, as addressed below:

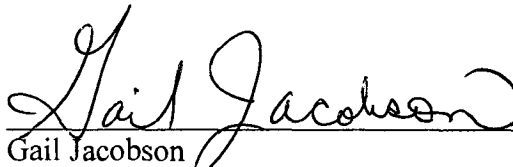
Jeffrey J. Gregg
29272 US Hwy 18
Carter SD 57580

John Whiting, Assistant Director
Water Resources & Environment
Rosebud Sioux Tribe
PO Box 430
Rosebud SD 57570

Joe Nichols
US Fish and Wildlife Service
29746 Bird Road
Martin SD 57551

A copy of the above described Notice was sent Inter-office to:

Diane Best, Assistant Attorney General, 1302 E. Hwy 14, Suite 1, Pierre SD 57501-8501



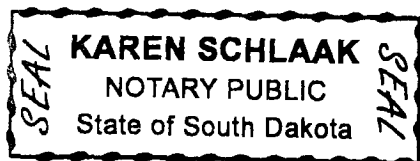
Gail Jacobson
Water Rights Program, DENR

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF HUGHES)

Sworn to, before me, this 13th day of November 2008.



Karen Schlaak
Notary Public
My Commission expires April 1, 2013





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

JAN 27 2009

Jeffery J Gregg
29272 US Hwy 18
Carter SD 57580

Dear Mr. Gregg:

Enclosed is Water Permit No. 2636-2 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

2636-2
RECEIVED

JUL 16 2009

WATER RIGHTS
PROGRAMNOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USE

Date

7/6/09

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

FROM:

Jeffrey J Gregg
(name)29272 LIS Hwy 18
(address)Carter, SD 57580
(city, state, zip)879-2242
(phone)

I have completed the construction of the water use system and I have put the water to beneficial use to the maximum extent it is going to be used.

Water Permit No. 2636-2 states that the water use system is to be constructed by 12/9/2013, and water is to be put to beneficial use by 12/09/2017.
(date) (date)

The water use system was completed on

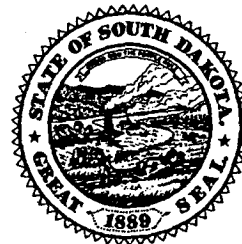
7/06/09
(date)

Applying the water to beneficial use was completed on

7/06/09
(date)

You may schedule an investigation so that the water license may be issued.

Jeffrey J Gregg
(signature)





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

July 16, 2009

2636-2

Jeffrey J Gregg
29272 US Hwy 18
Carter SD 57580

Dear Mr. Gregg:

I am writing to acknowledge receipt of the "Notice of Completion of Works" form that you sent in to let us know that you are completed with your system.

The system is now ready for inspection. Inspections are done on a county-by-county basis as staff time permits. You have done everything you need to do and the intervening time between the completion of your project and the staff inspection has no bearing on your water permit.

Someone from our office will contact you prior to the inspection to set up a time that is convenient for you. If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Genny McMath". The signature is written in a cursive, flowing style.

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

Permit No. 2636-2
White River - Water District

Other permit/license(s) associated with project: none

Contact Person & Address: Jeffery J. Gregg, 29272 US Hwy 18, Carter SD 57580

Report Of Examination Of Works

On, September 21, 2010, I made a thorough examination of the water use system constructed by Jeffery Gregg of 29272 US Hwy 18, Carter SD 57580 holder of Permit No. 2636-2, bearing the priority of August 11, 2008 authorizing the storage of 41 acre-feet of the waters for fish and wildlife propagation and livestock watering purposes, in Todd County.

The system is in the following condition good. The point of diversion is located in the NW ¼ NW ¼ Section 3, T39N, R25W with the primary outlet structure along the dam face at longitude of -100.2728 and a latitude of 43.3888 (approximately 480 feet south and 285 feet east of NW corner Section 3, T39N, R25W). The works are capable of storing 41 acre-feet of water which is to be used for fish and wildlife propagation and livestock watering. Water has been put to beneficial use to the maximum extent and should be licensed as follows:

An approximate 500 foot dam across the drainage with a top of dam height of 12 feet capable of a permanent storage at the primary outlet of 41 acre-feet of water.

Review of Permit Qualifications And Regulations:

- 1) Special qualifications to permit being abided by yes
- 2) All structures, wells and lands on map yes
- 3) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period not applicable
- 4) Exceptions to compliance are: none

Dam Information:

- | | |
|---|---|
| 1) Height to crest 12 feet | 2) Height to primary spillway or outlet <u>7</u> feet |
| 3) Height to secondary spillway <u>9</u> ft | 4) Crest width <u>12</u> feet |
| 5) Crest length <u>500</u> feet | 6) Spillway length <u>#</u> feet |
| 7) Spillway width <u>100</u> feet | 8) Approx. storage <u>41</u> ac-ft |
| 9) Outlet tubes: | |
| a) diameter <u>72" riser and 60 pipe</u> inches | b) type <u>CMP</u> |
| c) valved <u>no</u> | d) valve type |

COMMENTS: No low level bypass. Mr. Gregg indicated that the dam had filled and spilled this spring but evaporation had the dam significantly lower at the time of the licensing investigation.

Eric Gronlund
Eric Gronlund PE
Natural Resources Engineer
DENR, Water Rights Program

10/14/10
Date



Picture taken along west edge of dam grade showing the relatively low level of the dam



Picture of the dam grade looking in a westerly direction

Water Permit No. 2636-2, Jeffery J. Gregg



Dam located in the NW 1/4 NW 1/4 Section 3, T39N, R25W
Primary outlet GPS coordinates
Latitude 43.3888
Longitude -100.2728

Eric Gronlund
Eric Gronlund
Water Rights Program, DENR
Licensing Investigation - Sept. 21, 2010



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

FEB 11 2011

2636-2

Jeffery Gregg
29272 US Hwy 18
Carter SD 57580

Dear Mr. Gregg:

Enclosed is Water License No. 2636-2. This is the final water right document completing your process of obtaining a Water Right. Also, included with your license is a map prepared by the staff engineer who conducted the investigation.

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

Sincerely,

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

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 2636-2

(1) Jeffery Gregg, 29272 US Hwy 18, Carter SD 57580 made Application No. 2636-2, August 11, 2008 for a water permit to impound 41 acre feet of water from runoff, Todd County, South Dakota for fish and wildlife propagation and livestock watering purposes. Permit No. 2636-2, with a priority date of August 11, 2008 was approved December 9, 2008 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before December 9, 2013 and for the application to beneficial use of water on or before December 9, 2017.

The permit holder submitted a *Notice of Completion of Works and Application of Water to Beneficial Use* on July 16, 2009. The *Notice* stated the diversion system was completed on July 6, 2009 and the water placed to beneficial use on July 6, 2009.

(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 2636-2 is issued a license, bearing a priority date of August 11, 2008, to impound 41 acre feet of water for fish and wildlife propagation and livestock watering purposes.

The location of the storage dam (spillway) is approximately 480 feet south and 285 feet east of the northwest corner of Section 3-T39N-R25W (NW ¼ NW ¼).

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 2636-2, including the following now applicable qualifications:

- Water Permit No. 2636-2 authorizes a dam with a storage capacity of 41.0 acre feet of water and sufficient water annually to maintain the water level to the outlet elevation.
- Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.


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

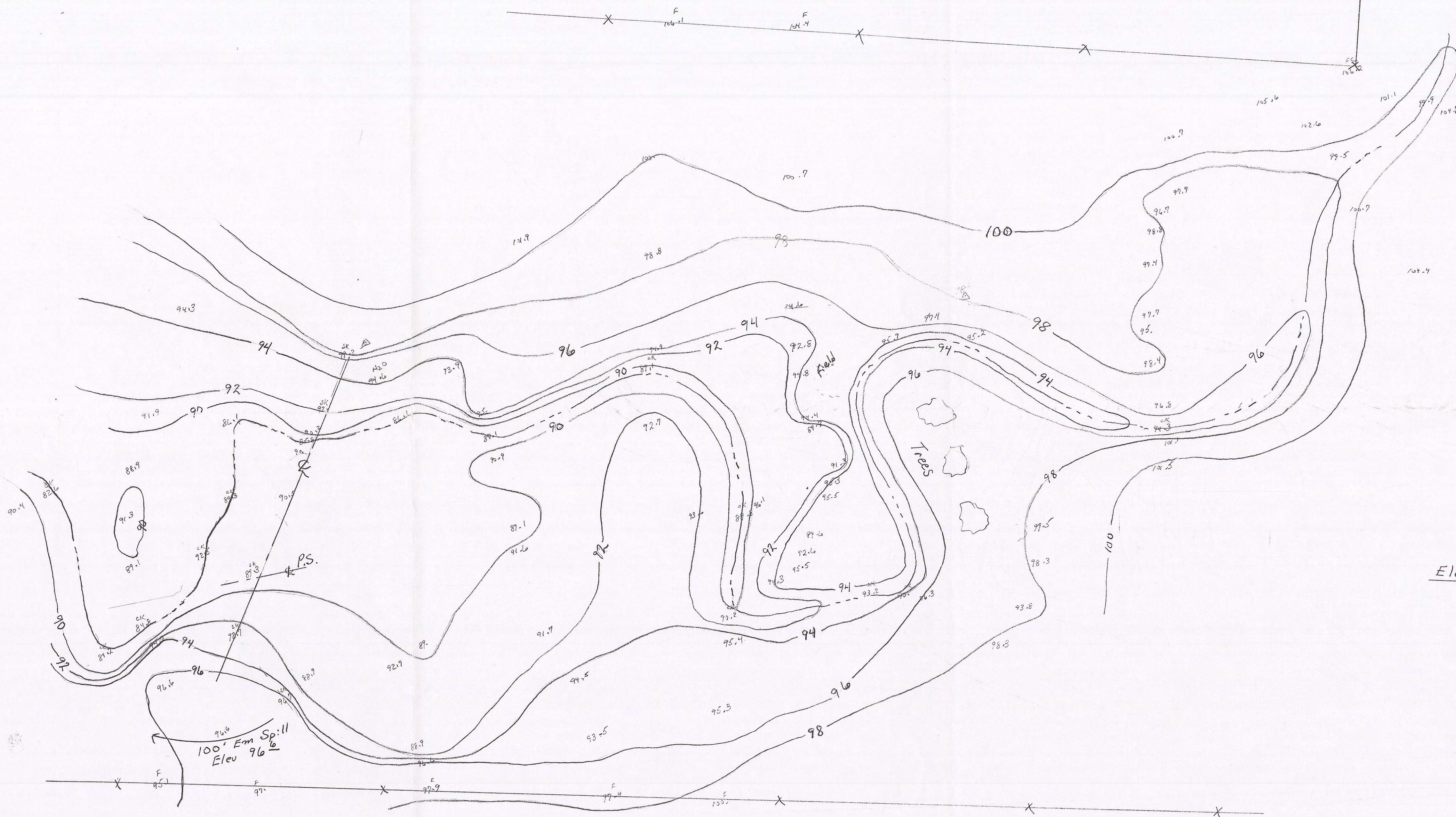
FEB 11 2011

date



Scale 1" = 100'

REVISED
AUG 11 2008
WATER RIGHTS
PROGRAM



Elevation	Acres
86	0
90	3.1
92	7.6
94	10.1
96	15.5
98	22.3

Jeffery Gregg
Sec 3, T 39N, R 25W
Todd Co.