

WATER PERMIT NO. 7053-3

Name of Applicant: Alma Anderson

Address: Box 7, Britton SD 57430

Phone: 605 448-5279

Amount of Water Claimed: 32.5 AF

Total Acres: NA

Source of Water Supply: runoff

Water to be used for: fish & wildlife propagation and livestock water

County: Marshall

Type of Waste Disposal System:

Location: 5 miles southeast of Britton

PRIORITY Date Received: 7-28-08

Application/License Fee: \$200

Corrected Application Received: 8-6-08

Period of Annual Use: January 1 – December 31

Remarks: reconstruction of existing dam

Diversion Point: SW ¼ NE ¼ Sec 10-T126N-
R57W

Water Impounded: S ½ NE ¼ Sec 10-T127N-
R57W

Depth of Well: NA

Well Driller:

Remarks:

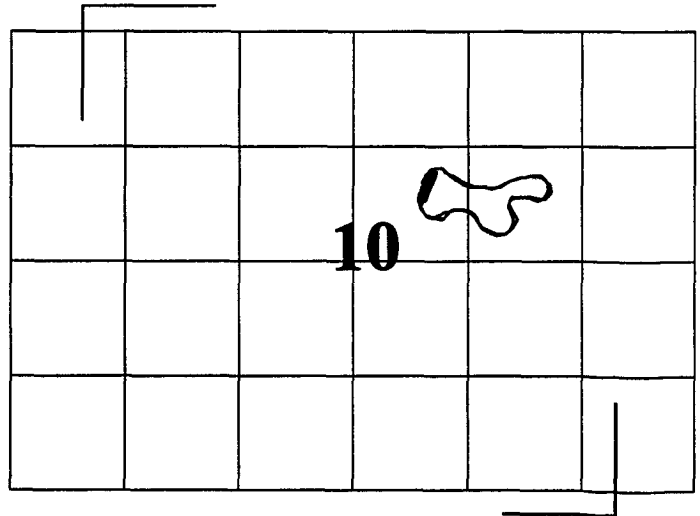
Type of Map: aerial

Prepared by: Thomas L Wickstrom, Waubay NWR

Reviewed and the Number Assigned on: 8-6-08

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	No. <u>7053-3</u> (office use only)	Hydrologic Unit <u>10160003</u>
	Basin <u>James River</u>	
	Newspaper <u>Britton Journal P.O. Box 69</u>	
	<u>605-448-2281 (Wed)</u>	<u>57430</u>

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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 <u>Livestock</u> | |

Type of Application: ☒ New ☐ Vested Right (Use predates Mar 2, 1955) ☐ Future Use Reservation
(check one) ☐ 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 Alma Anderson Phone 605-448-5279
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address Box 7 Britton State SD 57430
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed _____ *CFS or _____ **GPM 32.5 ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (**Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply 858 acre watershed above embankment.
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Marshall
Embankment in SW1/4 NE1/4 Section 10, T. 126 N., R. 57 W. Water impounded
SW1/4 S 1/2 NE1/4 Sec 10 T126N R57W
- County or counties where water will be used Marshall
- Annual period during which water is to be used annually 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)

See Engineers Job Plan

STATE OF SOUTH DAKOTA)

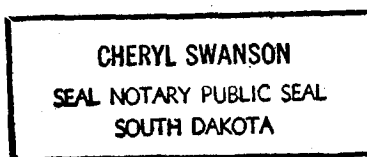
County of Marshall SS

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, Alma J Anderson, 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 Alma J Anderson

Subscribed and sworn to before me this 23rd day of July 2008



Cheryl Swanson
Notary Public signature

My Commission Expires 09-28-2010

SOUTH DAKOTA
WATER PERMIT NO. 7053-3

Date of first receipt of application July 28, 2008.

Date of return to applicant for corrections, amendments or changes August 4, 2008.

Date of receipt of corrected application August 6, 2008.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7053-3 to Alma Anderson, Box 7, Britton SD 57430 authorizing the construction of the dam and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 7053-3 authorizes impoundment of 32.5 acre-feet of water from runoff by reconstructing a dam located in the SW1/4 NE1/4 Section 10 with water impounded in the S 1/2 NE 1/4 Section 10; all in T126N-R57W.
2. The water appropriated shall be used for the purpose of fish and wildlife propagation and livestock water use and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 7053-3 is October 20, 2008.
5. The date from which applicant may claim right is September 16, 1997 for 4.7 acre-feet of storage (established by Location Notice No. 74634) and July 28, 2008 for remaining 27.8 acre-feet of storage.
6. One-fifth of the construction is to be completed on or before April 20, 2011.
7. All construction is to be completed on or before October 20, 2013.
8. Water is to be put to beneficial use on or before October 20, 2017.
9. 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. 7053-3 authorizes a dam with a storage capacity of 32.5 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

DEC 23 2008

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

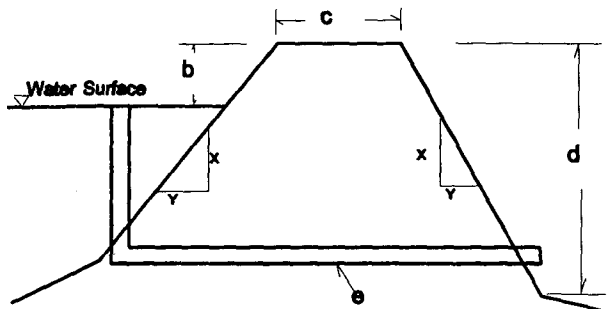
- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

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 Capitol Hill Drive
Pierre, SD 57501



- b) Freeboard _____ 4.5 feet
- c) Crest Width _____ 12 feet
- Crest Length _____ 174 feet
- d) Height _____ 21.1 feet
- e) Primary Outlet Capacity _____ 22 cfs
- If pipe, diameter _____ 24" drop 18" outlet
- f) Secondary Spillway Capacity _____ 434.6 cfs
- Spillway Width _____ 80 feet
- g) X & Y Slope _____
- Upstream _____ 3:1
- Downstream _____ 3:1
- h) Surface Area of Impoundment _____ 5.0 acres
- i) Storage _____ 32.5 Acre Feet
- j) Drainage Area Above Dam _____ 858.0 Acres



Alma Anderson Marshall County Created Wetland



0.5 0.25 0 0.5
Miles

Legend

FEATURE

 Wetland Created

Thomas L Wickstrom
T. L. Wick
Fish & Wildlife Biologist
Waubesa NWR

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WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 8/6, 20 08

RECEIVED OF Alma J Anderson PO Box 7 Britton SD 57430

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

Fee for Application for Permit No. <u>7053-3</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>7053-3</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.

03709

By

John J. Erdelyi
Chief Engineer

Water Permit Application No. 7053-3

Alma Anderson

Top of Dam Elev. - 95
 2nd Spillway Elev. - 90.5
 P. Spillway Elev. - 88
 D/S Emb Toe Elev. - 74

Cat. 3 - Low Hazard Dam

Ht. = 21 ft

Normal Storage Capacity - 32.5 Ac-Ft
 Int. Storage Capacity - 46.63
 Max. Storage Capacity - 83.08

Int. Capacity x Eff Ht. = $46.63 \times 18.5 = 863 < 3000 \therefore 25\text{yr}$
Minimum Spillway Design

From USGS WRI 98-4055 "Tech. Ser. List. Peak Flow... in SO"
 Region A DA = 858 Ac = 1.34 m.² P_{II} = 0.85

$$Q_{25} = 218 CA^{.513} P_{II}^{.480}$$

$$= 218 (1.34)^{.513} (0.85)^{.480}$$

$$= 218 (1.1620) (0.4589)$$

$$= \underline{116 \text{ cfs}}$$

$$Q_{100} = 362 CA^{.521} P_{II}^{.447}$$

$$= 362 (1.34)^{.521} (0.85)^{.447}$$

$$= 362 (1.1647) (0.4836)$$

$$= \underline{204 \text{ cfs}}$$

2nd Spillway Capacity

$$Q = CLH^{3/2}$$

C = 2.6
L = 80
H = 4.5

$$= 2.6 (80) (4.5)^{1.5}$$

$$= \underline{1945 \text{ cfs}}$$

Section 74:02:08:09

1. Topo Map - OK
2. Dam Axis Profile - OK
3. Dam Map X-Sec. - OK
4. Area Capacity - OK
5. Outlet Details - OK
6. Spillway Rating - OK
7. Spillway Details - OK
8. Specs - std NRCS - OK
9. EPP - Cat. 3 N/A - OK

NRCS Annual Yield

DA = 858 Ac · CN = 77 ISO = 2 1/2

80% chance = 0.11
 $0.11 \times 858^{1/2} = \underline{8 \text{ Ac-Ft}}$

50% chance = 0.32
 $0.32 \times 858^{1/2} = \underline{23 \text{ Ac-Ft}}$

10% chance = 1.8
 $1.8 \times 858^{1/2} = \underline{129 \text{ Ac-Ft}}$

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POND DESIGN

=====

WinPond 1.5.2405.11111

Project ---- : Farm Pond

Description : New pipe will replace existing 12" dia PE

State ----- : South Dakota

County ----- : Marshall

Landowner -- : Alma Anderson

Township --- : 126N

Range ----- : 57W

Section ---- : NE 10

Tract ----- :

Field ----- :

Designed By : Dave Konechne

Date designed: 6/9/2008

Date printed : 6/9/2008

Approved By : _____

Date : _____

File Name : C:\Documents and Settings\Elaine\...\New.prj

PLANNED IN COOPERATION WITH USDA-NRCS

Office Name
Address1
Address2
City

24" dia riser
18" dia barrel
-coated cap

Project --- : Farm Pond
 Prepared for: Alma Anderson
 Prepared by : Dave Konechne
 Checked by : _____

TWP : 126N RNG : 57W
 SEC : NE 10 FLD :
 Date: _____

***** JOB APPROVAL CLASS *****

Hazard Class	Low	A
Effective Height	Feet	18.5
Effective Storage	Ac-Ft	46.6
Overall Height	Feet	0.0
Total Storage	Ac-Ft	0.0
Storage X Effective Height	Ac-Ft Ft	863
Contributing Drainage Area	Acres	858
Contributing Drainage Area	Square Miles	1.34
Pipe Conduit Capacity	CFS	22.0
Open Channel Spillway Design Flow	CFS	434.6
Peak Inflow Aux Spillway Design Storm	CFS	641.6
Conduit - Inside Diameter	Inches	18
Conduit Material		HCMP
Inlet Type		Drop
Job Approval Class		

***** ELEVATION-STORAGE INPUT DATA *****

ELEV (ft)	POOL AREA (acres)	INT.STORAGE (ac.ft.)	ACCUM.STORAGE (ac.ft.)
75.0	0.00		0.00
88.0	5.00	32.50	32.50
90.5	6.30	14.13	46.63
95.0	9.90	36.45	83.08

***** STORAGE VOLUMES *****

	ELEVATION (ft)	AREA (acres)	STORAGE (ac.ft.)
Inlet (Princ. spillway)	88.0	5.00	0.00
Aux. spillway	90.5	6.30	0.00
Max. water	92.9	8.23	0.00
Settled top of fill	93.6	8.77	0.00
Sediment - above inlet			0.00
- below inlet			0.00
Inlet to Aux.			0.00
Aux. to max. water			0.00

RUNOFF CURVE NUMBER DETERMINATION

COVER DESCRIPTION

Acres & (curve numbers) for
 Hydrologic Soil Group

A B C D

ACCUMULATED: 858.00 Acres

WEIGHTED CURVE NUMBER: 72.0

Project --- : Farm Pond
 Prepared for: Alma Anderson
 Prepared by : Dave Konechne
 Checked by : _____

TWP : 126N RNG : 57W
 SEC : NE 10 FLD :
 Date: _____

***** HYDROLOGIC DATA *****

Rainfall distr. type ---- :	II		
Drainage area, acres ---- :	858.0	Watershed slope, % :	15.3
Runoff curve number ---- :	72	Flow length, ft. - :	10401
Time of concentration, hrs :	1.11		
(min.:	66.84)		
	----- Spillway -----		
	Principal	Auxiliary	
Design frequency, yrs.:	2	25	
24 hr. Rainfall, in. :	2.3	4.2	
Runoff, in. ---- :	0.4	1.6	
Peak inflow, cfs ---- :	134.28	641.57	
Peak outflow, cfs --- :	21.97	434.62 A.S.	
		23.54 P.S.	

***** PRINCIPAL SPILLWAY TRIALS *****

Inlet type: Drop

Inlet Elevation: 88.0

	TRIAL 1	TRIAL 2	TRIAL 3
CONDUIT: Type -----	HCMP		
Diameter, in. --	18.00		
Height, in. ----			
Width, in. ----			
Manning's n ----	0.021		
Inlet ext., ft. -	0.0		
Length, ft. ----	103.0		
Entrance Coefficient, Ke	1.000		
RISER : Type -----	HCMP		
Diameter, in. --	24.00		
Length, in. ----			
Width, in. ----			
Weir length, in.	75.40		
Crest radius, in.			
Invert elevation -----	82.00		
Auxiliary elevation ----	90.5		
STORAGE (ac.ft.):			
Temporary (PS-AS) ----	14.13		
Total at Auxiliary ---	46.63		
Effective height, ft. ---	18.5		
Height x storage -----	863		
Drawdown time, days-hrs.	0-10.3		
Trial used -----	1 --		

CONDUIT TYPES ----- : HCMP - Helical Corrugated Metal Pipe

Project --- : Farm Pond
Prepared for: Alma Anderson
Prepared by : Dave Konechne
Checked by : _____

TWP : 126N RNG : 57W
SEC : NE 10 FLD :
Date: _____

***** CONDUIT DETAIL *****

Inlet Type -----	DROP	
Conduit Type -----	HCMP	- Helical Corrugated Metal Pipe
Diameter, in. -----	18.00	
Inlet extension, ft --	0.0	
Length, lin. ft. ----	0.0	Extends 6.0 ft. beyond dnstr.toe
Length, lin. ft. ----	103.0	Pipe length used in routing
Slope, % -----	8.9	
Max.fill over pipe, ft.	13.9	

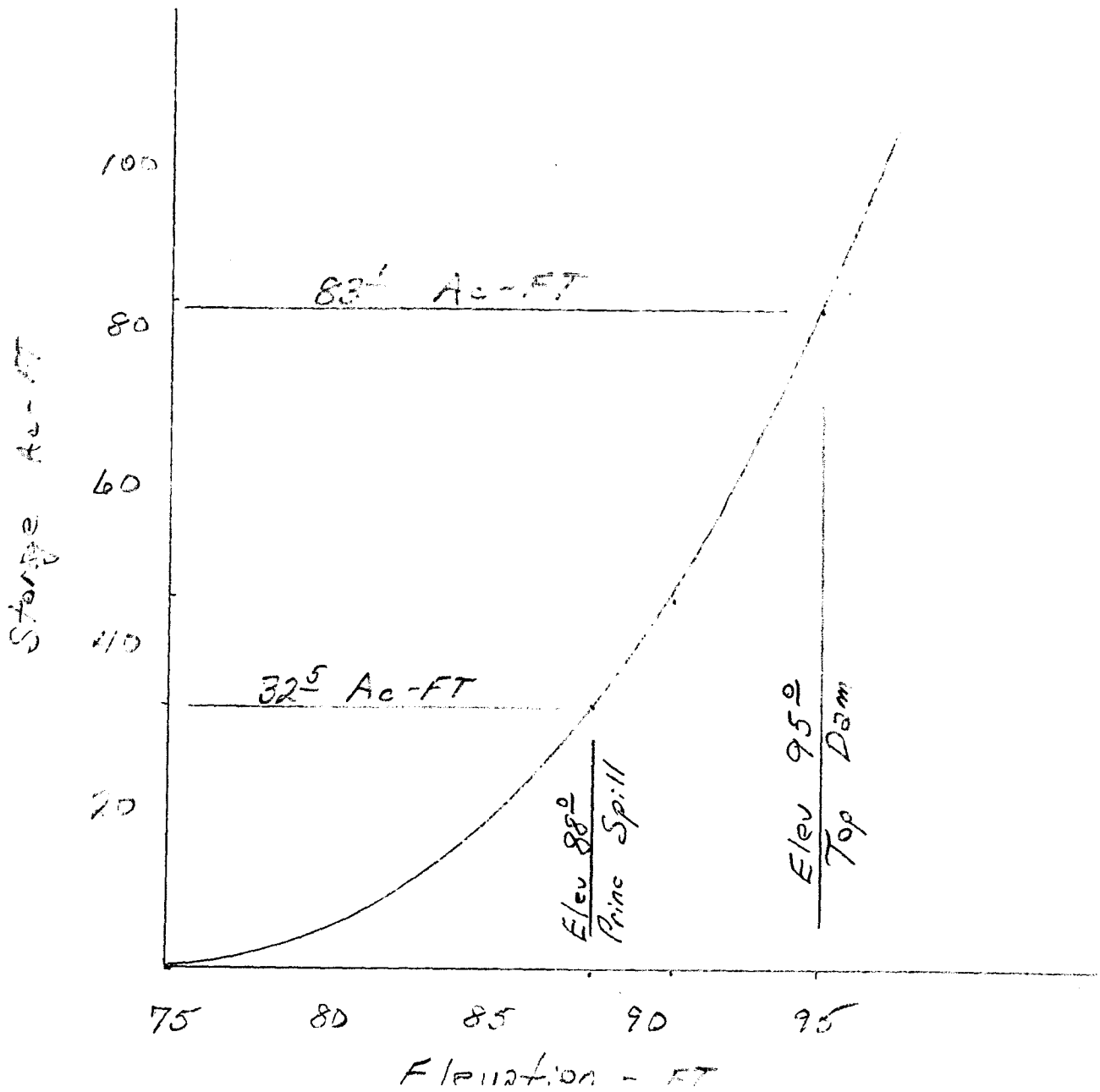
Horizontal Distances (ft.)		
Upstrm: edge of top width to inlet end of pipe :	18.9	
Dnstrm: edge of top width to toe ----- :	64.8	

***** PROJECT DEFAULTS *****

Design based on -----	Settled Slopes
Berms settled -----	False
Auxiliary spillway to Top of Dam: -----	2.0 (ft)
Freeboard -----	1.0 (ft)
Minimum bottom width -----	10.0 (ft)
Maximum bottom width -----	150 (ft)
Feet above inlet (Drawdown) -----	1.0 (ft)
Percent or storage drained (Drawdown) -----	85.0 (ft)
Minimum flow (Drawdown) -----	0.1 (cfs)
Orifice Coefficient -----	0.71 (ft)
Full Pipe Flow Required? -----	Yes
Stage required above Prin. Spwy. Crest: -----	0.5 (ft)
Max. drainage area for required stage: -----	20.0 (acres)

COMPUTATION SHEET

BY	DATE	PROJECT <i>Alma Anderson</i>	SHEET ____ OF ____
CHKD BY	DATE	FEATURE <i>NE Sec 10, T 126 N, R 57 W</i>	
DETAILS			



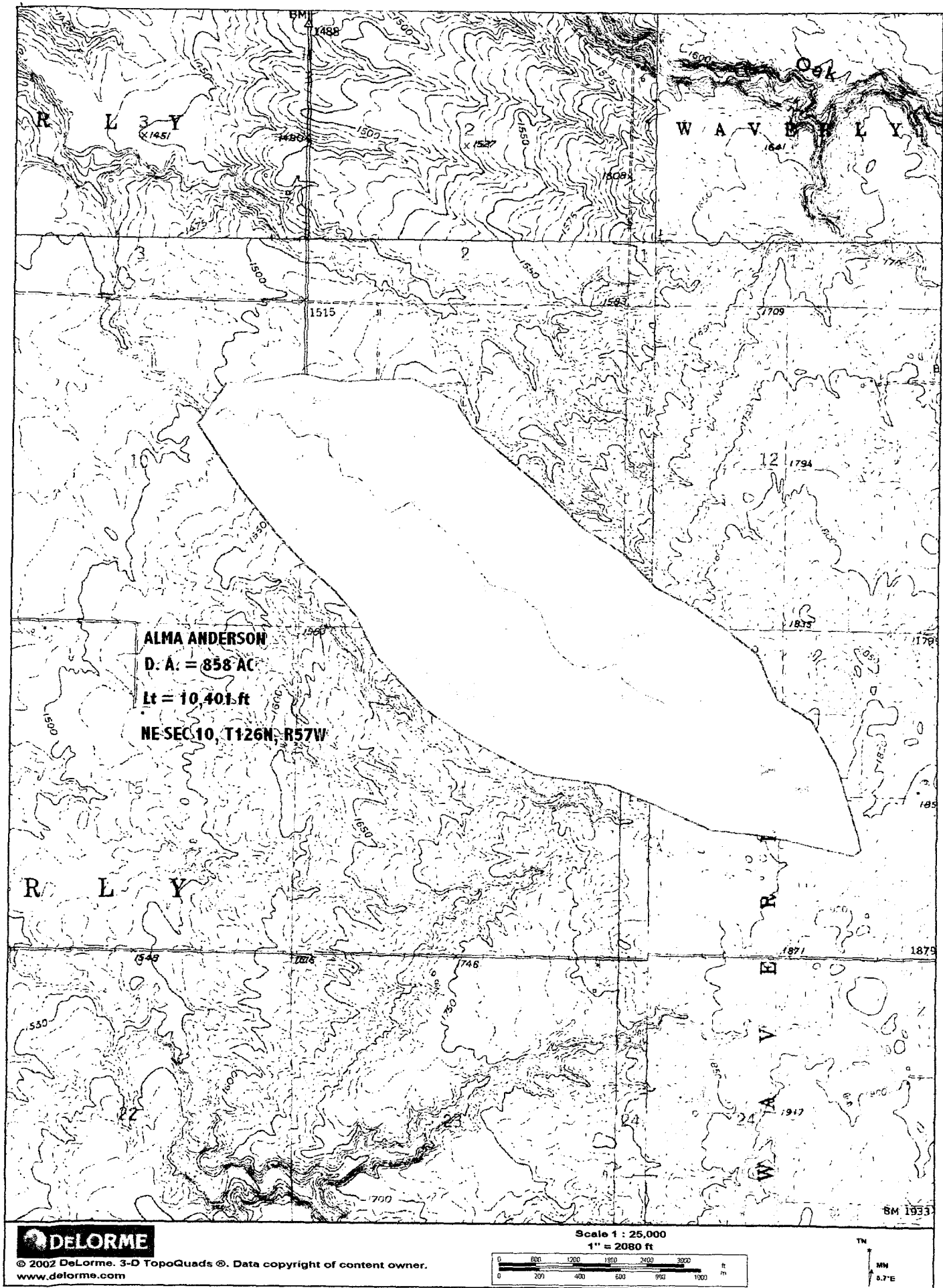
COMPUTATION SHEET

BY	DATE	PROJECT <i>Alma Anderson</i>	SHEET ____ OF ____
CHKD BY	DATE	FEATURE	
DETAILS			

<u>Grassy Line</u>	<u>Length</u>
B	3
C	3.4
D	3.9
E	4
F	3.7
1	0.5
2	2.1
3	3.2
4	3.7
5	2.9
6	2.4
7	2
8	0.9
	<u>35.4</u> " $\times 1000 \frac{ft}{in} = 35,400 ft$

<u>Contour</u>	<u>Grass Crossing</u>
1500	8
1550	13
1600	9
1650	9
1700	9
1750	11
1800	8
1850	2
	<u>69</u>

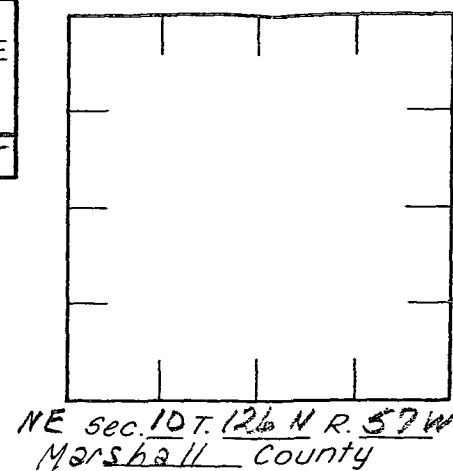
$$S = \frac{1571 (50) (69)}{35,400} = 2.153 \times 100 = 15.3\%$$



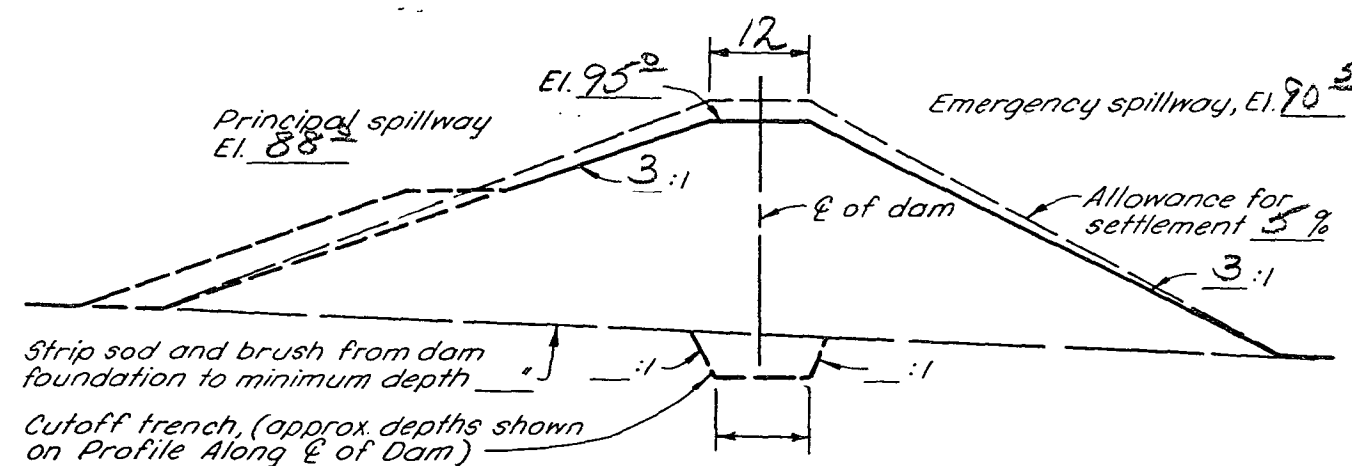
DRAINAGE AREA	ANNUAL YIELD	PEAK RUNOFF	EMERG. SPLY. CAPACITY	WATER DEPTH	SURFACE AREA	SEDIMENT STORAGE	TOTAL STORAGE
ACRES	AC. FT.	<i>cfs</i> 25-YR.	C. F. S.	FEET	ACRES	AC. FT.	AC. FT.
858	28	641	434	11.5	5	—	32.5

Note! This pipe replaces an existing 12" dia PE pipe.

Since minimum construction inspection will be performed, it is necessary to hire a competent contractor



LOCATION

[illegible]

TYPICAL CROSS SECTION OF DAM



see attached to pg

SKETCH PLAN OF DAM AND RESERVOIR AREA

Approximate scale 1" = _____

REFERENCE: GUIDE PLAN NO. 1.0

S.D. CONSTRUCTION AND MATERIAL SPECIFICATIONS:

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

EARTH DAM

OPERATOR: Alma Anderson
CONSERVATION DISTRICT: Marshall

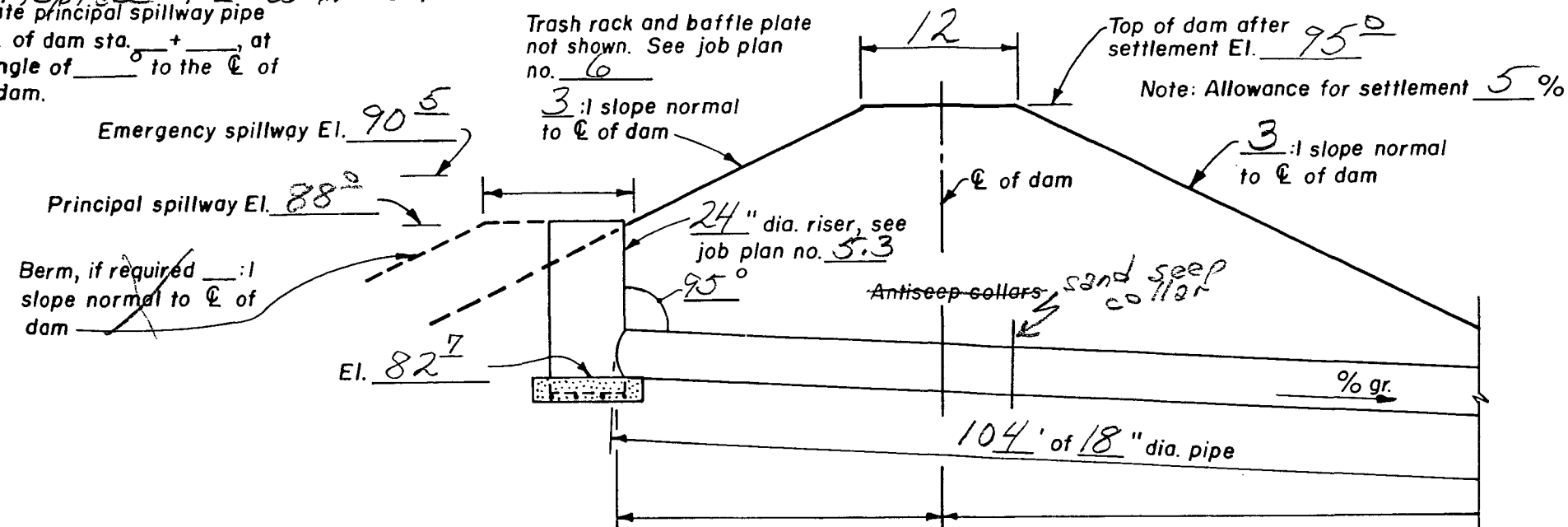
Class "A" Hazard

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

JOB PLAN NO. 1.0

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

Replace PE with CMP
Locate principal spillway pipe
at $\mathcal{C}$ of dam sta. + , at
an angle of ° to the $\mathcal{C}$ of
the dam.



CROSS SECTION OF DAM ALONG $\mathcal{C}$ OF PRINCIPAL SPILLWAY
(Not to scale)

SPECIFICATION NOTES

- 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.
- PIPE WALL THICKNESS SHALL BE
1/8 GAGE OR INCHES.
See Job Plan 5.3

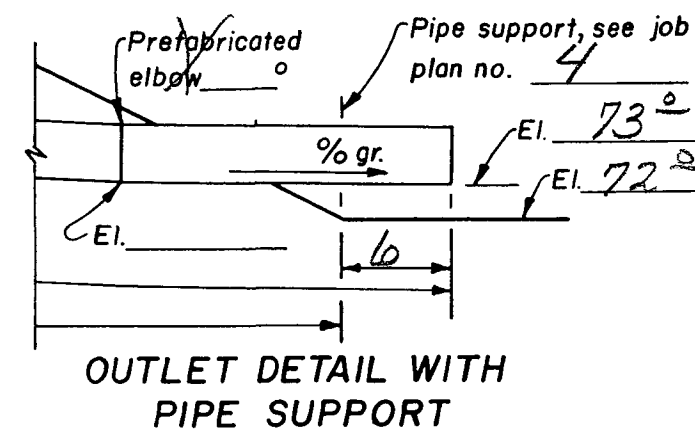
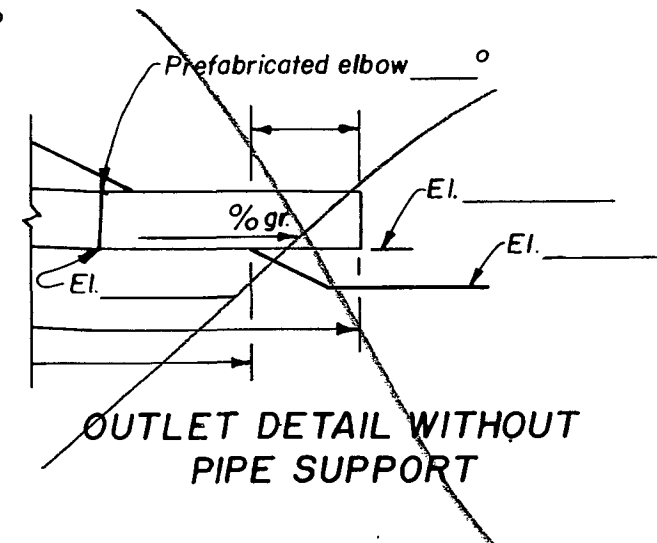
All CMP to be spiral
wyrl. clad

TABLE OF QUANTITIES

ITEM	UNIT	QUANTITY

APPLICABLE STANDARD S.C.S. SPECIFICATIONS

CMP-SD-50



Sec. , T. , R.
County

LOCATION

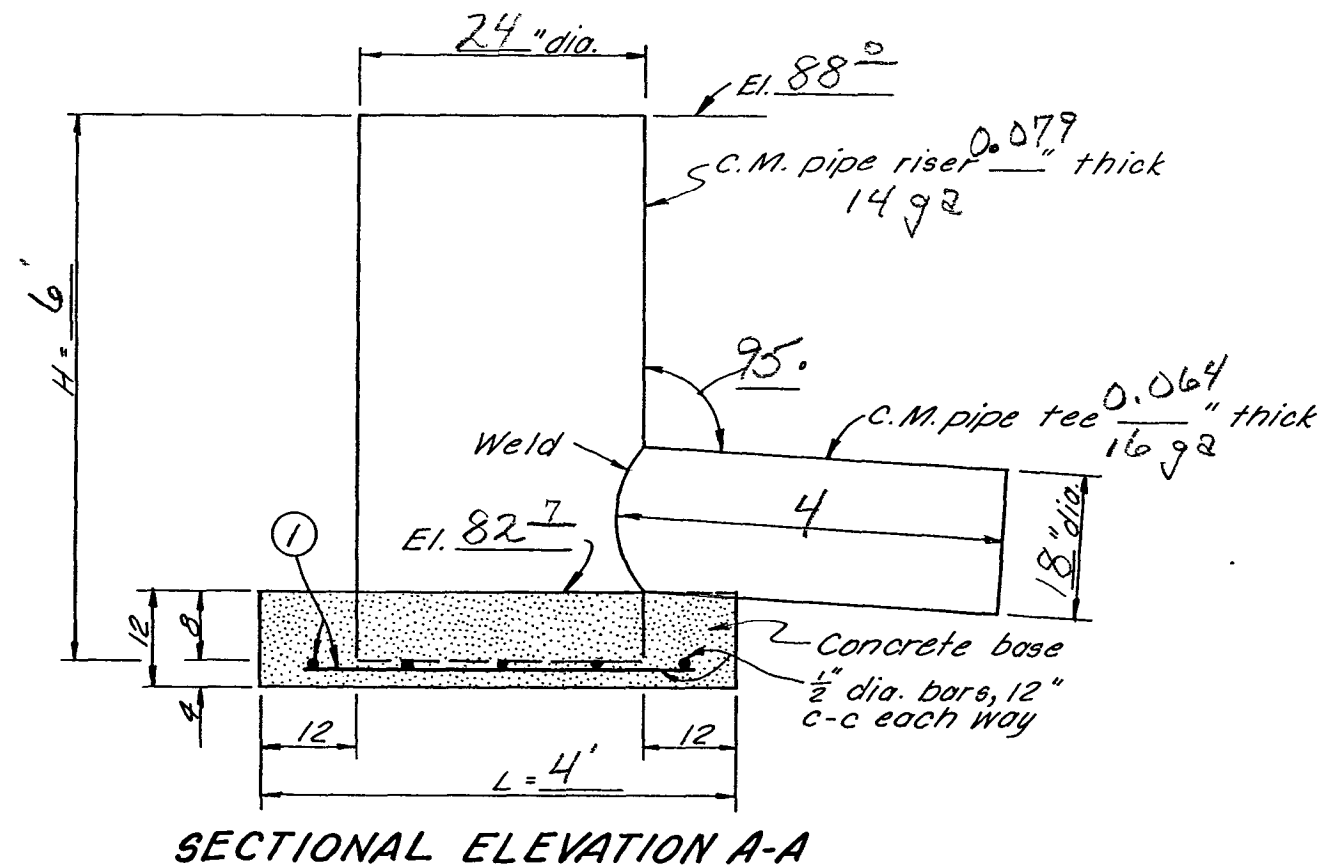
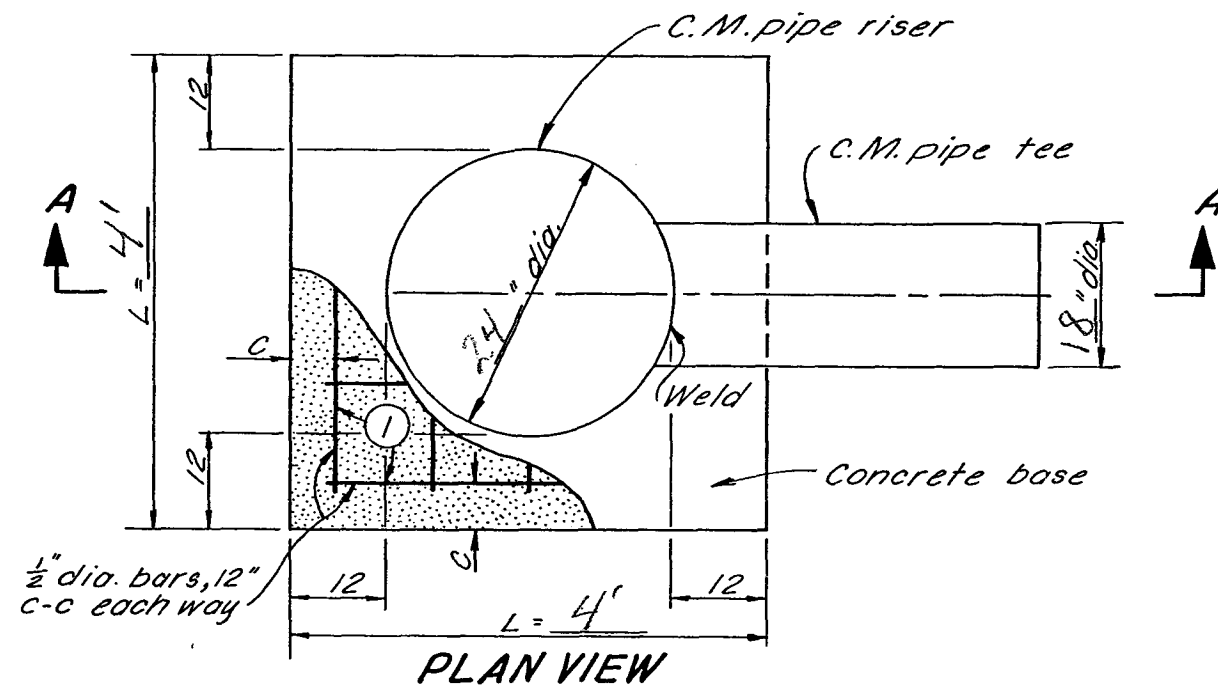
CORRUGATED METAL PIPE DROP INLET PRINCIPAL SPILLWAY

OPERATOR Alma Anderson

CONSERVATION DISTRICT

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed <u> </u>	Date <u> </u>	Approved by <u> </u>
Drawn <u> </u>		Title <u> </u>
Traced <u> </u>		Title <u> </u>
Checked <u> </u>	Sheet <u> </u>	Drawing No. <u> </u>
	No. <u> </u>	
	of <u> </u>	



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.
24	4	1	STR.	4	3-0	12	19	6	4-0

TABLE OF QUANTITIES

ITEM	UNIT	QUANTITY
CONCRETE	CU. YD.	0.6
REINFORCING STEEL	LB.	19

NOTE: All CMP to be spiral & vinyl clad

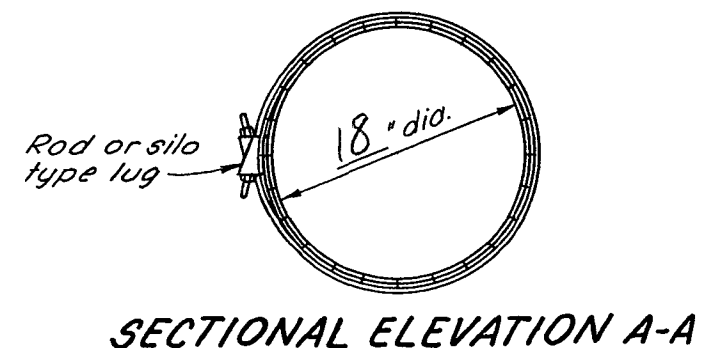
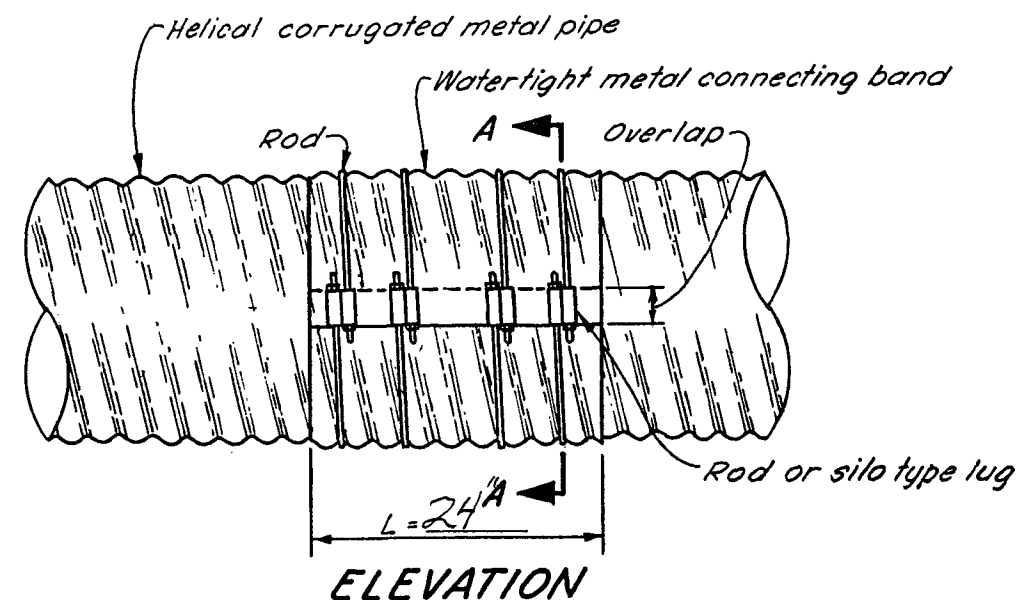
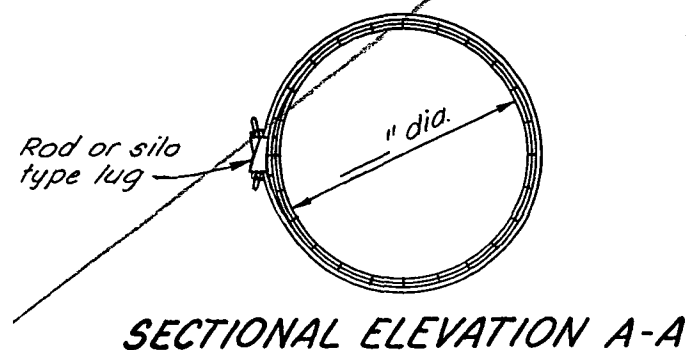
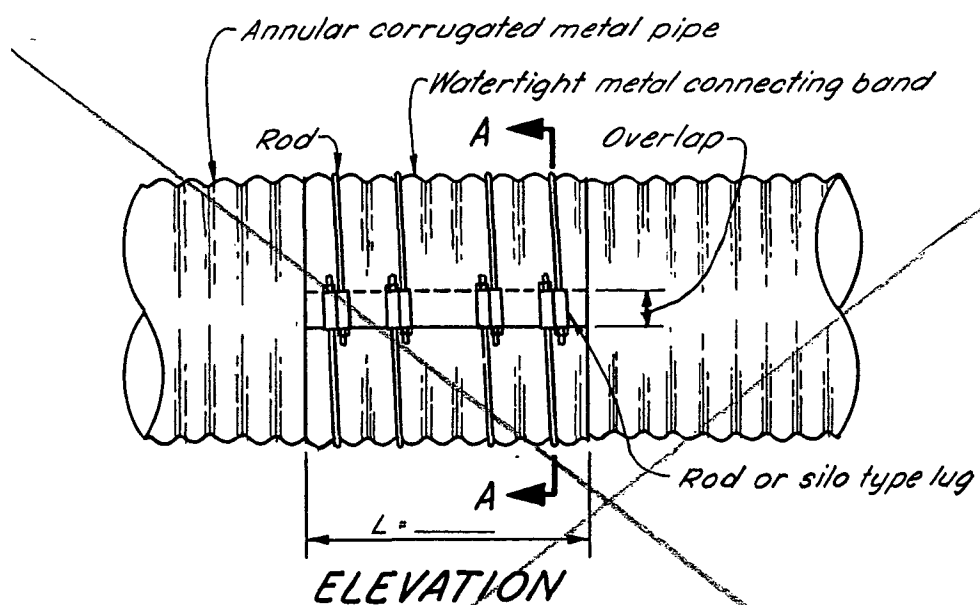
C.M. PIPE RISER WITH FABRICATED TEE

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

REFERENCE: GUIDE PLAN NO. 5.3

JOB PLAN NO. 5.3

5, N-29,073.5-30



DIMENSIONS AND QUANTITIES

PIPE DIA. INCHES	MINIMUM "L" INCHES	APPROX. OVERLAP INCHES	NUMBER OF RODS & LUGS	MINIMUM ROD DIA. IN.	NEOPRENE GASKET WIDTH INCHES	ASPHALT MASTIC GAL.
6-18	12	2	2	1/2	12	1 1/2
21-30	24	3	4	1/2	12	1 1/2
36-48	24	6	4	1/2	12	2

NOTES:

1. WATERTIGHTNESS WILL BE OBTAINED BY USE OF (1) 3/8" THICK NEOPRENE GASKET (WIDTH AS SHOWN) OR (2) ASPHALT MASTIC SEALING MATERIAL TO COVER FULL WIDTH OF BAND.
2. CROSS OUT BAND AND QUANTITIES NOT APPLICABLE.

WATERTIGHT CONNECTING BAND FOR ANNULAR AND HELICAL CORRUGATED METAL PIPE

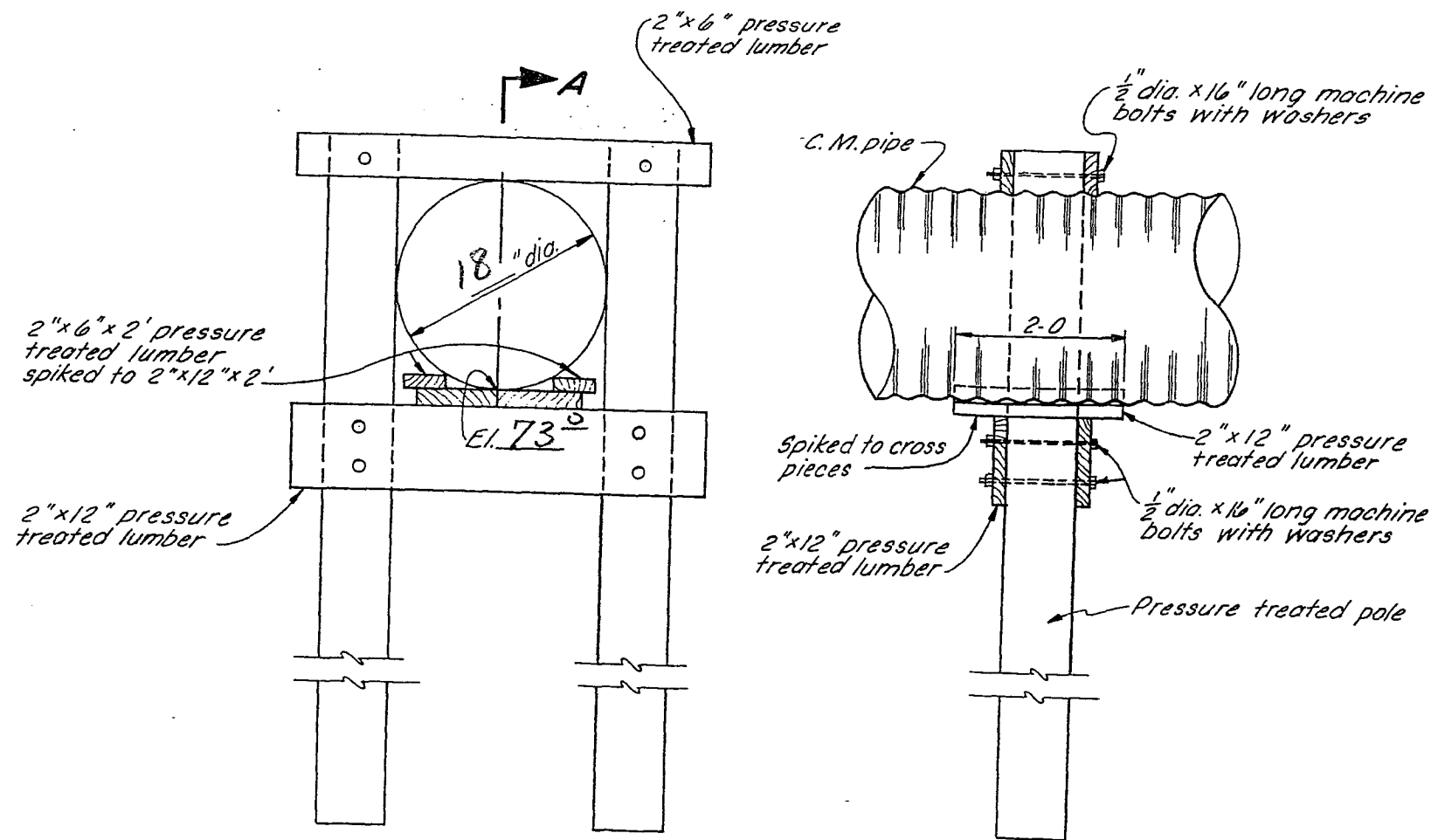
OPERATOR: Alma Anderson
 CONSERVATION DISTRICT: _____

U. S. DEPARTMENT OF AGRICULTURE
 SOIL CONSERVATION SERVICE

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

JOB PLAN NO. 3.0

5 N-20 073 30



ELEVATION

SECTIONAL ELEVATION A-A

TABLE OF QUANTITIES

ITEM	LENGTH FOR 18" DIA. C.M. PIPE	UNIT	QUANTITY
PRESSURE TREATED POLE 10" DIA.	8-0	EACH	2
2" X 12" PRESSURE TREATED LUMBER	4-0	EACH	2
2" X 6" PRESSURE TREATED LUMBER	4-0	EACH	2
2" X 12" PRESSURE TREATED LUMBER	2-0	EACH	2
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

NOTES:

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

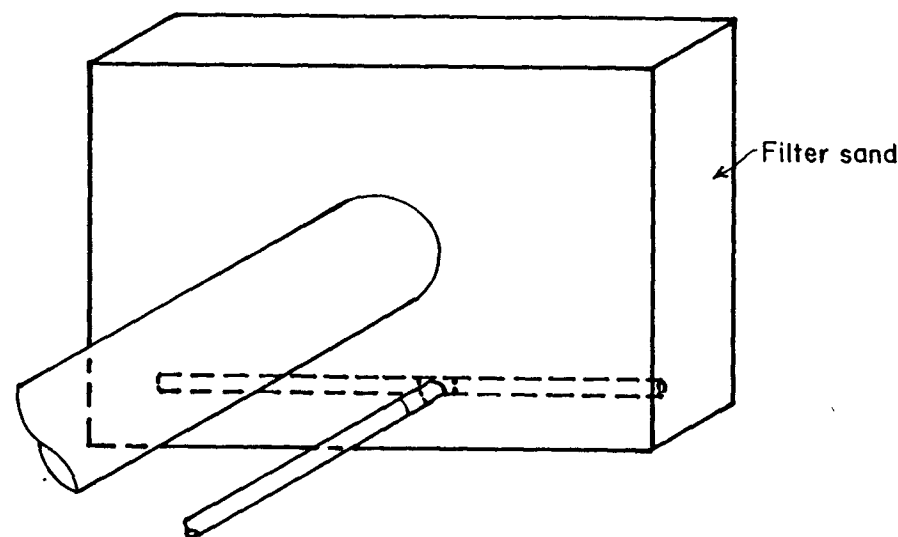
TIMBER PIPE SUPPORT

OPERATOR: <u>Alma Anderson</u>	
CONSERVATION DISTRICT: _____	
Date _____	Approved by _____
Designed _____	Title _____
Drawn _____	Title _____
Traced _____	Sheet _____
Checked _____	No. _____
	of _____
	Drawing No. _____

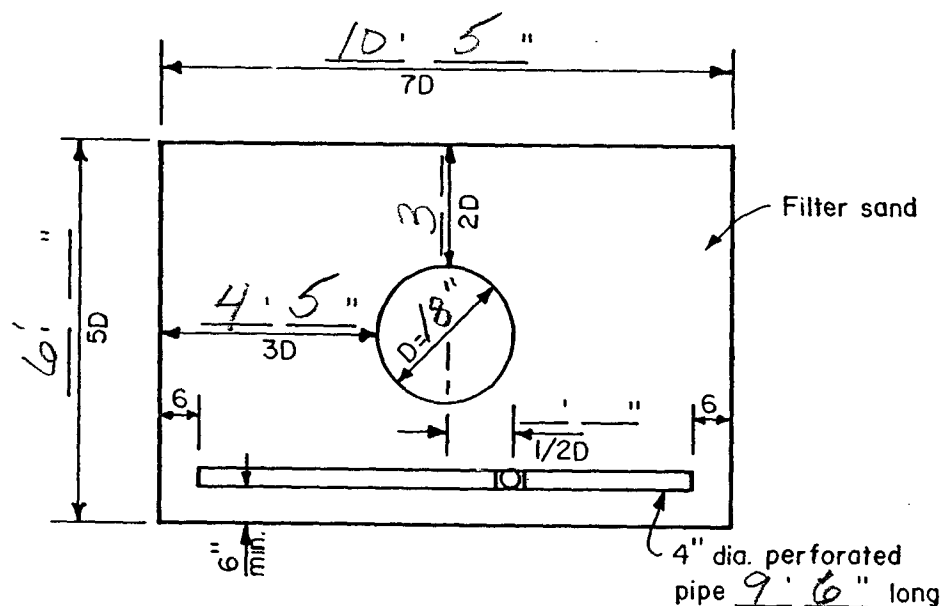
REFERENCE: GUIDE PLAN NO. 4.0

JOB PLAN NO. 4.0

5, N-29, 073.4a



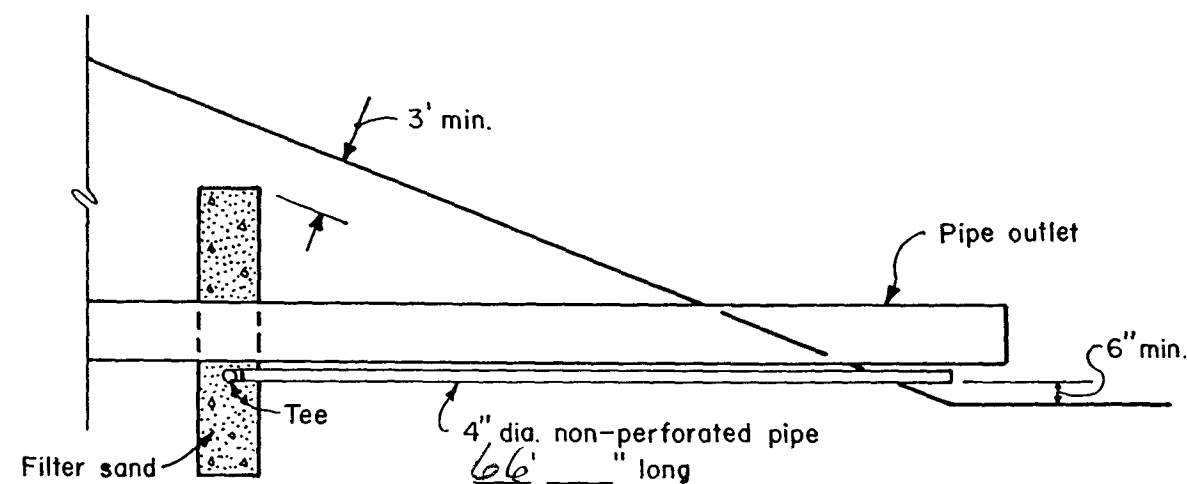
ISOMETRIC VIEW



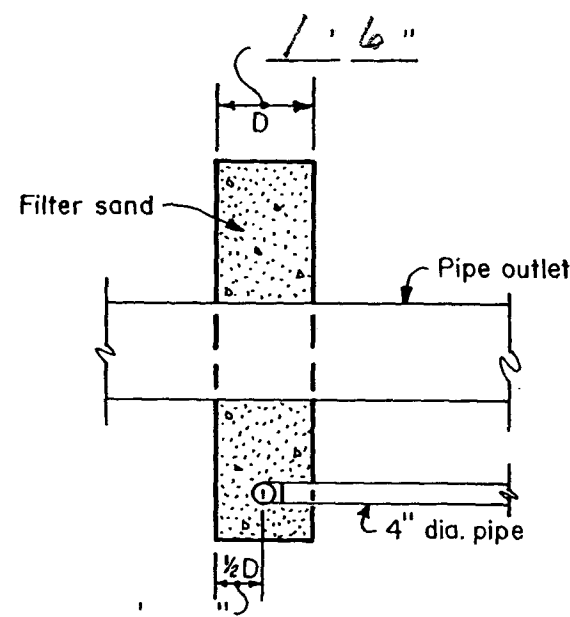
UPSTREAM VIEW

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 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
3.5 cy

Sec. _____, T. _____, R. _____

County _____
LOCATION

SAND ANTISEEP COLLAR

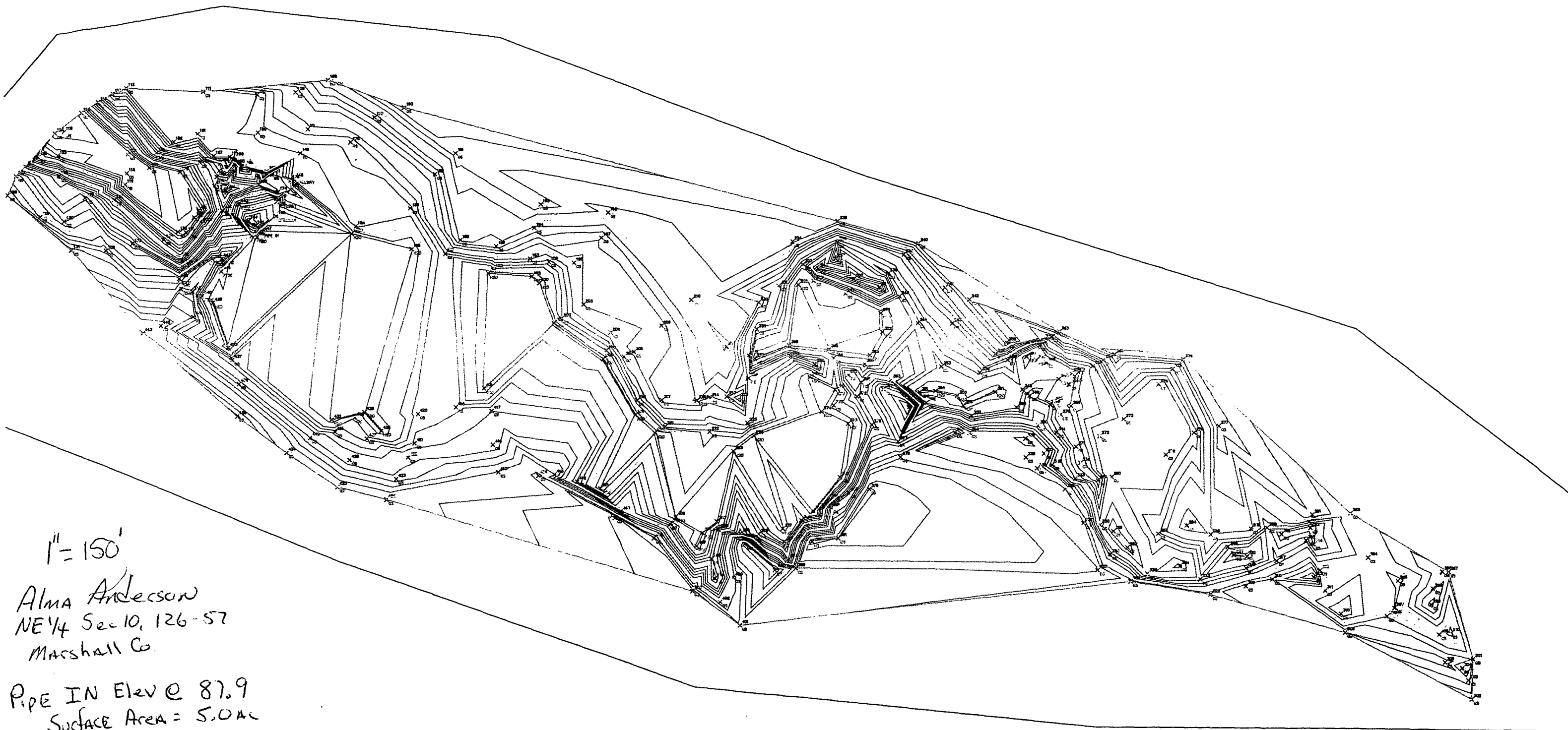
OPERATOR Alma Anderson

CONSERVATION DISTRICT Marshall

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

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

JOB PLAN NO. 3.8



1" = 150'

Alma Anderson
NE 1/4 Sec 10, 126-57
Marshall Co.

Pipe IN Elev @ 87.9
Surface Area = 5.0 AC

Spillway @ 90.5
Surface Area = 6.3

Top Dam @ 95.0
Surface Area = 9.9 AC



RECEIVED

AUG - 6 2008

WATER RIGHTS
PROGRAM

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 4, 2008

Alma Anderson
Box 7
Britton SD 57430

Dear Ms. Anderson:

Thank you for submitting the *Application for a Permit to Appropriate Water* for fish and wildlife propagation and livestock water use. In order to complete the application, the following is required.

- The application filing fee for this application will be \$200.00.

If you have any questions, please contact me.

Sincerely,

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

c: Thomas Wickstrom, Waubay Nat'l Wildlife Refuge



**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 23, 2008

Alma Anderson
PO Box 7
Britton, SD 57430

Dear Ms. Anderson:

We have reviewed the plans and specifications for your dam repair project located in the SW ¼ NE ¼ of Sec. 10-T126N-R57W, in Marshall County. The plans and specifications for your dam are approved. Approval of the plans and specifications does not authorize repair of the dam. The reconstruction of the dam may not begin until Water Permit No. 7053-3 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 Anderson Dam will be classified as a small size Category 3, Low Hazard dam with a dam height of 21 feet and a normal storage capacity of 32.5 acre-feet and a maximum storage capacity of 83 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: Dave Konechne, Konechne Engineering
Tom Wickstrom, USFWS



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 7053-3, Alma Anderson**

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. 7053-3, Alma Anderson Box 7, Britton SD 57430.

The Chief Engineer is recommending APPROVAL of Application No. 7053-3 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. Water Permit No. 7053-3 authorizes a dam with a storage capacity of 32.5 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 23, 2008

REPORT ON
WATER PERMIT APPLICATION NO. 7053-3
Alma Anderson
September 19, 2008

Water Permit Application No. 7053-3 has been filed by Alma Anderson to impound 32.5 acre-feet of water from runoff by reconstructing an existing dam located in the SW ¼ NE ¼ of Section 10-T126N-R57W, in Marshall 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. In 1997, Location Notice No. 74634 was filed for the dam with a storage capacity of 4.7 acre-feet.

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, reconstruction of the dam can not begin until Water Permit Application No. 7053-3 is approved.

The reconstructed dam will be 21 feet high with a normal storage capacity of 32.5 acre-feet with a reservoir level at the primary spillway elevation, and a maximum storage capacity of 83 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 858 acres or 1.34 square miles. The dam is designed to have a 24 inch diameter CMP riser with an 18 inch diameter CMP barrel with 7.0 feet of freeboard as the primary spillway, and an 80 foot wide earthcut secondary spillway with 4.5 feet of freeboard. A 25 year frequency event produces a peak runoff of approximately 116 cfs and a 100 year frequency event produces a peak runoff of approximately 204 cfs. The earthcut spillway will have a capacity of approximately 1985 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 8 acre-feet. The annual yield with a 50 percent chance of occurrence, or 1 out of 2 years, is expected to be 23 acre-feet and the annual yield with a 10 percent chance, or 1 out of 10 years, is expected to be 129 acre-feet.

The Anderson Dam will be located in the SW ¼ NE ¼ of Section 10-T126N-R57W on an unnamed tributary to Crow Creek, about 3 miles upstream of the confluence of the unnamed tributary and Crow Creek. There are no existing Water Permits/Rights filed on the unnamed tributary between the proposed dam and Crow Creek.

Conclusions:

1. Water Permit Application No. 7053-3 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. 7053-3.



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

AFFIDAVIT OF PUBLICATION

2T(Oct. 1,8)

NOTICE OF APPLICATION NO. 7053-3 to Appropriate Water

Notice is given that Alma Anderson, Box 7, Britton SD 57430 has filed an application for a water permit to impound 32.5 acre-feet of water from runoff by reconstructing a dam located in the SW1/4 NE1/4 Section 10 with water impounded in the S 1/2 NE 1/4 Section 10; all in T126N-R57W. 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. 7053-3 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 October 20, 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. Pimer, Secretary,

A, County of Marshall.

said county, being first duly sworn on oath says that he is publisher of the BRITTON JOURNAL, a weekly newspaper printed and published in the City of Britton, in the County of Marshall, and has full and personal knowledge of all the facts herein stated; that said newspaper is a legal newspaper and has a bona-fide circulation of at least two hundred copies weekly and has been published within said County for fifty-two successive weeks, next prior to the publication of the notice herein mentioned and is printed wholly or in part in an office at said place of publication;

that the Notice of Application No. 7053-3
to Appropriate Water Alma Anderson

a printed copy of which, taken from the paper in which the same was published, is attached to this sheet and is made a part of this affidavit, was published in said newspaper at least once each week for two successive weeks, on the day of each week on which said newspaper was regularly published, to wit:

October 1, 2008

October 8, 2008

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

Forty three and 98/100

Dollar M.C.

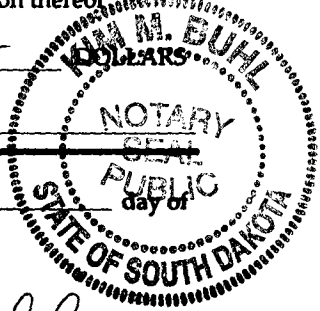
Subscribed and sworn to before me this

October 8th A.D. 2008

Kim M. Buhl

Notary Public, Marshall County, S. D.

My Commission Expires March 12, 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

September 23, 2008

Britton Journal
PO Box 69
Britton SD 57430

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7053-3 to Appropriate Water to be published twice. Please publish the first notice on October 1, 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 Alma Anderson, PO Box 7, Britton SD 57430 (Ph # 605-448-5279).

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. 7053-3

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

Date _____

We are in receipt of your letter of September 23, 2008 enclosing Notice to Appropriate Water by Application No. 7053-3 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

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

September 23, 2008

Alma Anderson
PO Box 7
Britton SD 57430

Dear Ms. Anderson:

Water Permit Application No. 7053-3 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 Britton Journal printed at Britton SD (Ph # 605-448-2281). 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 October 1, 2008 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 7053-3 to Appropriate Water

Notice is given that Alma Anderson, Box 7, Britton SD 57430 has filed an application for a water permit to impound 32.5 acre-feet of water from runoff by reconstructing a dam located in the SW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 10 with water impounded in the S $\frac{1}{2}$ NE $\frac{1}{4}$ Section 10; all in T126N-R57W. 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. 7053-3 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 October 20, 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.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

DEC 23 2003

Alma Anderson
PO Box 7
Britton SD 57430

Dear Ms. Anderson:

Enclosed is Water Permit No. 7053-3 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

Permit No. 7053-3
James River - Water District

Report Of Examination Of Works And/Or Application of Water To Beneficial Use

TO: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, **October 10, 2013**, made a thorough examination of the water use system constructed by **Alma Anderson** of **Box 7, Britton, SD 57430** holder of Permit No. **7053-3**, bearing the priority of **September 16, 1997 (4.7 acre-feet) & July 28, 2008 (27.8 acre-feet)** authorizing the storage of **32.5** acre-feet of the waters of **runoff** for **fish & wildlife propagation and livestock water** purposes, in **Marshall** County.

I have to report on the conditions of the same as follows:

A. Works used to divert the water:

A 21 foot high earthen dam with a normal storage capacity of 32.5 acre-feet of water.

B. Works used to transport water to place of use:

N/A

C. Works used to apply water to beneficial use:

A 21 foot high earthen dam with a normal storage capacity of 32.5 acre-feet of water.

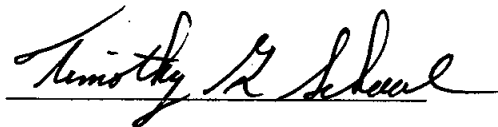
The system is in the following condition **good**. The point of diversion is located **1700 ft. south & 1650 ft. west of the NE corner of Sec. 10-T126N-R57W, SW ¼ NE ¼, (Lat. 45.74251 Long. -97.65406)**. The works are capable of storing **32.5** acre-feet of water which is to be used for **fish & wildlife propagation and livestock water**. Water has been put to beneficial use to the maximum extent as follows:

A 21 foot high earthen dam with a normal storage capacity of 32.5 acre-feet of water.

and the license should be issued for **32.5** acre-feet of storage.

Applicable permit qualifications have been complied with: Yes **X**

Exceptions to compliance are: **none** Date Report Completed: **January 27, 2014**



Timothy G. Schaal, P.E.
Engineer IV
SD DENR, Water Rights Program

REPORT ON INSPECTION OF PERMIT NO. 7053-3

DATE OF INSPECTION: October 10, 2013

NAME & ADDRESS OF PERMIT HOLDER: Alma Anderson, Box 7, Britton, SD 57430

DIVERSION POINT LEGAL LOCATION: 1700 ft. south & 1650 ft. west of the NE corner of Sec. 10-T126N-R57W, SW ¼ NE ¼, (Lat. 45.74251 Long. -97.65406).

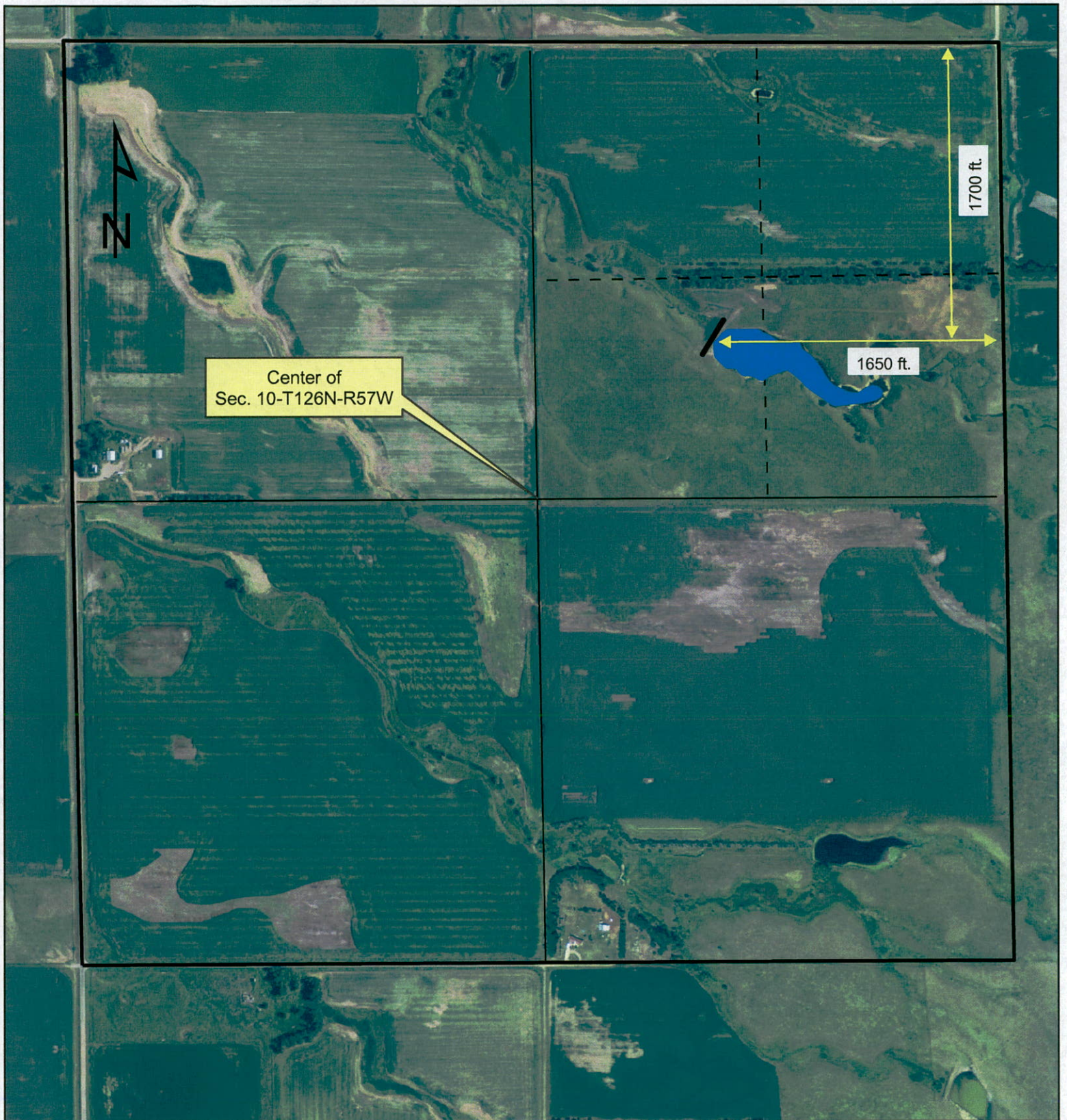
DAM INFORMATION:

- 1) Height to crest 21 feet
- 2) Height to primary spillway 14 feet
- 3) Height to secondary spillway 16.5 feet
- 4) Crest width 12 feet
- 5) Crest length 174 feet
- 6) Spillway length XXX feet
- 7) Spillway width 80 feet
- 8) Approx. storage (Normal) 32.5 acre-feet
- 9) Approx. storage (Maximum) 83 acre-feet
- 10) Date constructed: 2008

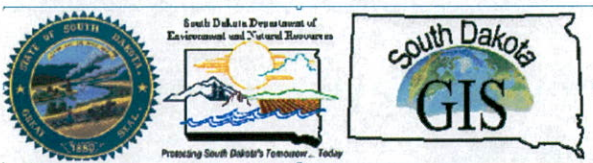
PERMIT QUALIFICATIONS AND REGULATIONS:

- 1) Soil and water permit lands agree with lands being irrigated and lands listed on permit N/A
- 2) Special qualifications to permit being abided by yes
- 3) All structures, wells and lands on map yes
- 4) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period N/A

Water Permit Application No. 7053-3



0 0.25 0.5 1 Miles



Timothy G. Schaal

Timothy G. Schaal, P.E.
Engineer IV
SD DENR, Water Rights Program

1/27/14



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

FEB 05 2014

7053-3

Alma Anderson
Box 7
Britton SD 57430

Dear Ms. Anderson:

Enclosed is Water License No. 7053-3. 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.

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.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeanne Goodman". The signature is fluid and cursive, with a long horizontal stroke at the end.

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

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 7053-3

(1) Alma Anderson, Box 7, Britton SD 57430 made Application No. 7053-3, July 28, 2008 for a water permit to impound 32.5 acre feet of water from runoff in a dam located in Marshall County, South Dakota and used for fish & wildlife propagation and domestic livestock water purposes. Permit No. 7053-3, with priority dates of September 16, 1997 (4.7 acre feet - established under Location Notice No. 74634) and July 28, 2008 (27.8 acre feet) was approved October 20, 2008 and issued to the applicant for impoundment of water with construction of the storage dam to be completed on or before October 20, 2013 and the application to beneficial use of water on or before October 20, 2017.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the storage dam and is entitled to impound 32.5 acre feet of water beneficial use with sufficient water annually to maintain the water level to the outlet elevation.

The location of the storage dam (spillway) is 1,700 feet south and 1,650 feet west of the NE corner of Section 10, T126N, R57W (SW ¼ NE ¼). Water is impounded in S ½ NE ¼ Section 10.

(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use.

(4) Pursuant to South Dakota Water Law 46-5-30.1 Alma Anderson, Box 7, Britton SD 57430 the holder and/or owner of Water Right No. 7053-3 is issued a license to impound 32.5 acre feet water from runoff in a storage dam with priority dates of September 16, 1997 (4.7 acre feet) and July 28, 2008 (27.8 acre feet) from the location specified in (2) of this license. The water is used for fish and wildlife propagation and domestic livestock watering.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 7053-3 and subject to the following qualifications:

- Water Right No. 7053-3 authorizes a dam with storage capacity of 32.5 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 bypassed.



Jeanne Goodman, Chief Engineer
Water Rights Program

Department of Environment and Natural Resources

FEB 05 2014

date

