

WATER PERMIT NO. 2689-2

Name of Applicant: Julie E Snavely

Address: 725 W 5th St, Winner SD 57580

Phone: 605 842-3353

Amount of Water Claimed: 111 acre-feet

Total Acres: NA

Source of Water Supply: runoff

Water to be used for: fwp, livestock water

County: Tripp

Type of Waste Disposal System:

Location: 16 miles north of Winner

PRIORITY

Date Received: 8-6-12

Application/License Fee: \$ 700

Corrected Application Received:

Period of Annual Use: Jan 1 – Dec 31

Remarks:

Diversion Point: NW ¼ SE ¼ Sec 28-T102N-
R75W

Water Impounded: NW ¼ SE ¼ Sec 28-T102N-
R75W

			28		
					

Depth of Well: NA

Well Driller: NA

Remarks:

Type of Map: topo

Prepared by: Steven d Spawn, USFWS

Reviewed and the Number Assigned on: 8-7-12

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

FORM 2: Application for uses other than irrigation
(type or print)

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	(office use only)		RECEIVED AUG 06 2012 WATER RIGHTS PROGRAM
	No. <u>2689-2</u>	Hydrologic Unit <u>10140204</u>	
	Basin <u>White River</u>	<u>605-842-1481</u>	
	Newspaper <u>Winner Advocate 125 W 3rd St. 57580</u>	<u>Capital Journal PO Box 878 Pierre 57501-605-224-7301</u>	

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

Check use(s) of water:

☐ Municipal	☐ Suburban Housing	☐ Recreational	☐ Institutional
☐ Rural Water System	☐ Commercial	☒ Fish & Wildlife	☐ Geothermal Heat
☒ Domestic (over 18 gpm)	☐ Industrial	☒ Other <u>Livestock</u>	

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.)

1. Name of Applicant Julie E. Snavelly Phone 605-842-3353
(check one) ☒ Owner ☐ Tenant/lessee

Mailing Address 725 W. 5th St. Winner SD 57580
(Address) (City) (State) (Zip Code)

2. Amount of water claimed _____ *CFS or _____ **GPM _____ 111 ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply Dry Draw Runoff

4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Tripp
The embankment is located 2600 feet west and 1800 feet north of SE corner of Sec. 28 T102N R75W
(NW1/4 SE 1/4)

5. County or counties where water will be used Tripp

6. Annual period during which water is to be used Jan. 1 - Dec. 31

7. 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)

The project will repair the upstream slope of an existing dam grade. No existing location notice or water permit were found. The existing principle and emergency spillways are in good condition. When repaired, the pond will be 10.1 surface acres in size with 111 acre feet of storage. Engineering plans and specs are included with this application.

STATE OF SOUTH DAKOTA)
County of Tripp) SS

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

I, Julie E. Snavelly, 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

Julie E. SnavellySubscribed and sworn to before me this 28 day of July 20 12Betty Anderson

Notary Public signature

My Commission Expires 1-4-17

**SOUTH DAKOTA
WATER PERMIT NO. 2689-2**

Date of first receipt of application August 6, 2012.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 2689-2 to Julie E Snavely, 725 W 5th St, Winner SD 57580 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. 2689-2 authorizes impoundment of 111 acre-feet of water from runoff by reconstructing a dam located in the NW 1/4 SE 1/4 Section 28 with water impounded in the NW 1/4 SE 1/4 Section 28 all in T102N-R75W.
2. The water appropriated shall be used for the purpose of fish and wildlife propagation and livestock water 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. 2689-2 is September 24, 2012.
5. The date from which applicant may claim right is August 6, 2012.
6. One-fifth of the construction is to be completed on or before March 24, 2015.
7. All construction is to be completed on or before September 24, 2017.
8. Water is to be put to beneficial use on or before September 24, 2021.
9. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

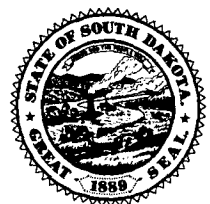
1. Water Permit No. 2689-2 authorizes an impoundment with a storage capacity of 111 acre feet of water and sufficient water annually to maintain the water level to the outlet elevation.
2. Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.

WATER MANAGEMENT BOARD

By: Garland Erbele

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

SEP 28 2012
date



Supplemental Information

(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 applicant's 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) _____

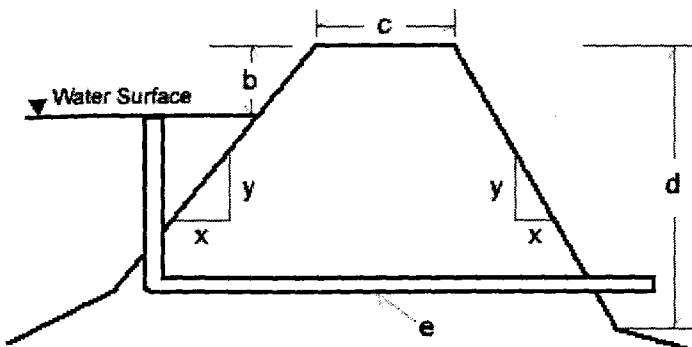
4. Water Storage Dams

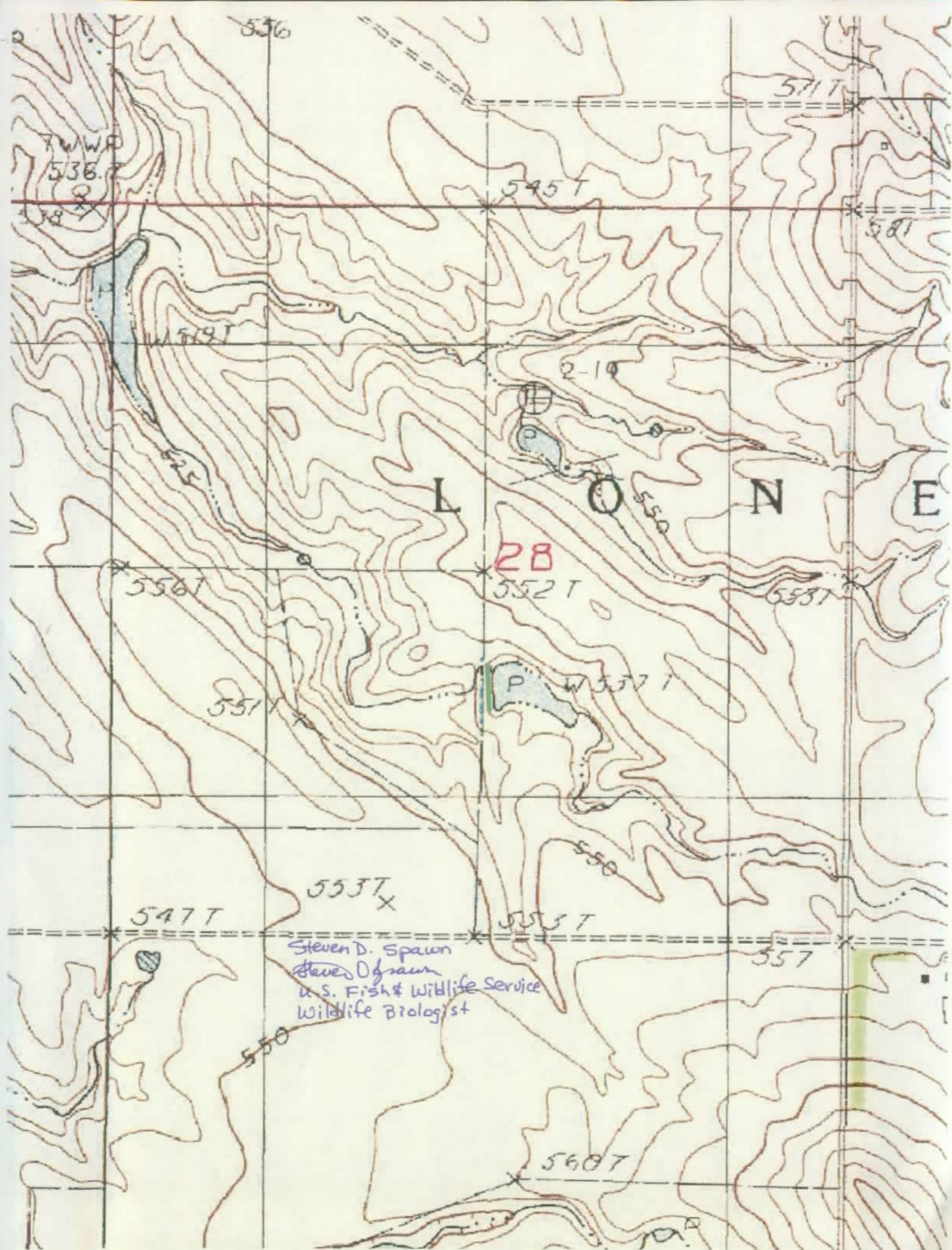
If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

- 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
(605) 224-7092

- b) Freeboard 3.0'
- c) Crest Width 12.0'
Crest Length _____
- d) Height 24.0' 2.5'
- e) Primary Outlet Capacity 25.4 cfs
If pipe, diameter 12"
- f) Secondary Spillway Capacity 380 cfs
Spillway Width 70'
- g) X & Y Slope (e.g. 3 to 1 is a typical slope)
Upstream 3:1
Downstream 3:1
- h) Surface Area of Impoundment 10.1
- i) Storage 111.0 Acre Feet
- j) Drainage Area Above Dam 750.0 Acres





DO NOT WRITE		ABOVE THIS LINE	
NORMA J MARTIN USEWS		EXPIRATION ☒ DATE CHECKED	
XXXX XXXX XXXX 0807		06/14	
SIGN HERE X		PLEASE DO NOT WRITE ABOVE THIS LINE	
The issuer of the card identified on this item is authorized to pay the amount shown as TOTAL upon proper presentation. I promise to pay such TOTAL (together with any other charges due thereon) subject to and in accordance with the agreement governing the use of such card.		SALES SLIP ORIGINAL	

RECEIVED

AUG 06 2012

WATER RIGHTS
PROGRAM

February 21, 2012

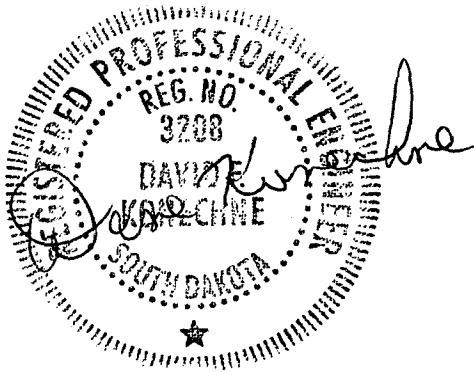
Konechne Engineering
104 Capitol Hill Dr.
Pierre, South Dakota, 57501
Ph-605-224-7092

Re: Snavelly #1 site, W1/2SE1/4 Sec28,T102N,R75W

The attached plans prepared on 10-85 by Mr. Charles Cook, NRCS, are approved with the adjusted storage calculations.

Principal Spillway Elevation 100.0 - storage 111 Ac-Ft
Top of Dam Elevation 105.0 - storage 174 Ac-Ft

Dave Konechne
PE - 3208



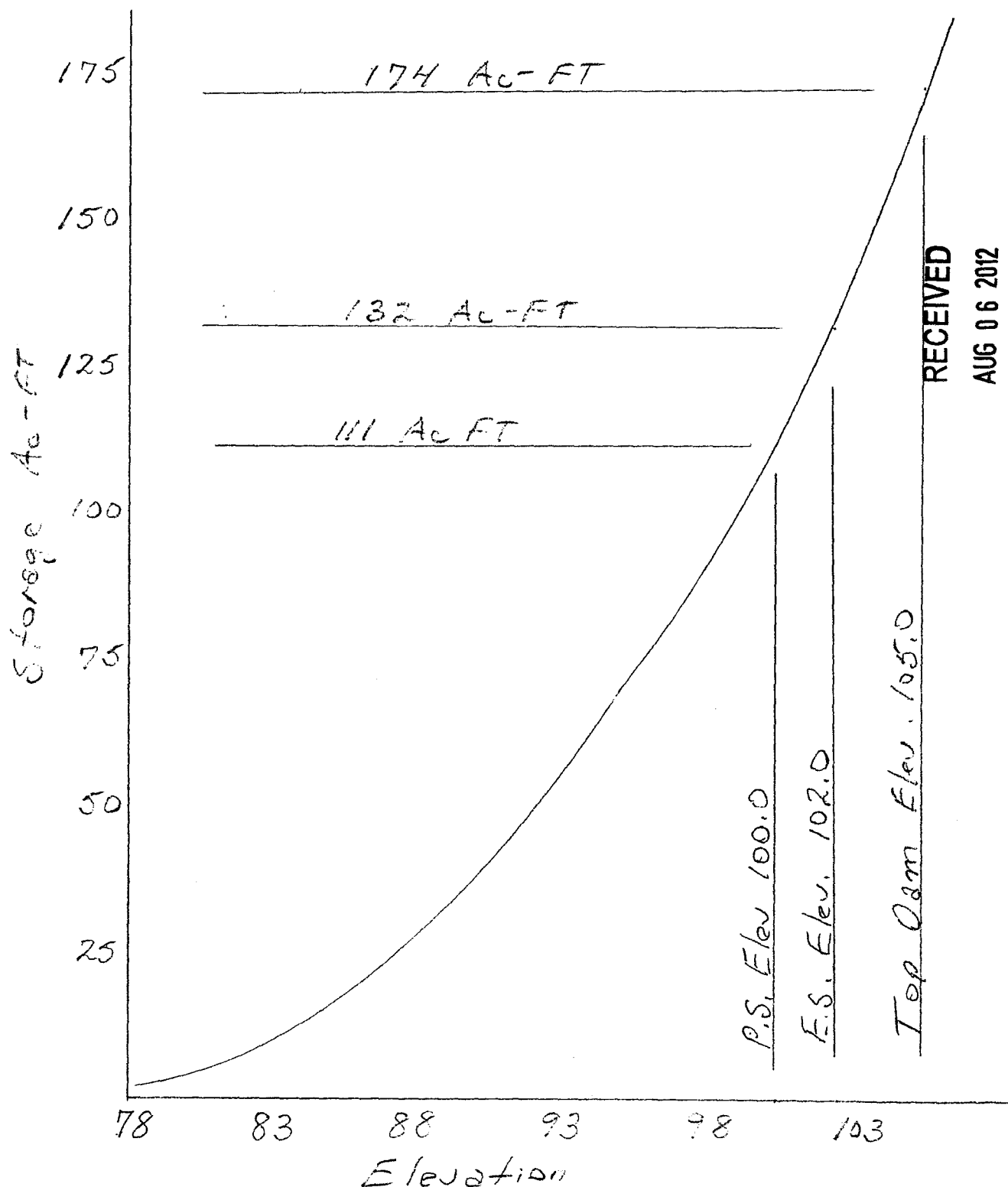
COMPUTATION SHEET

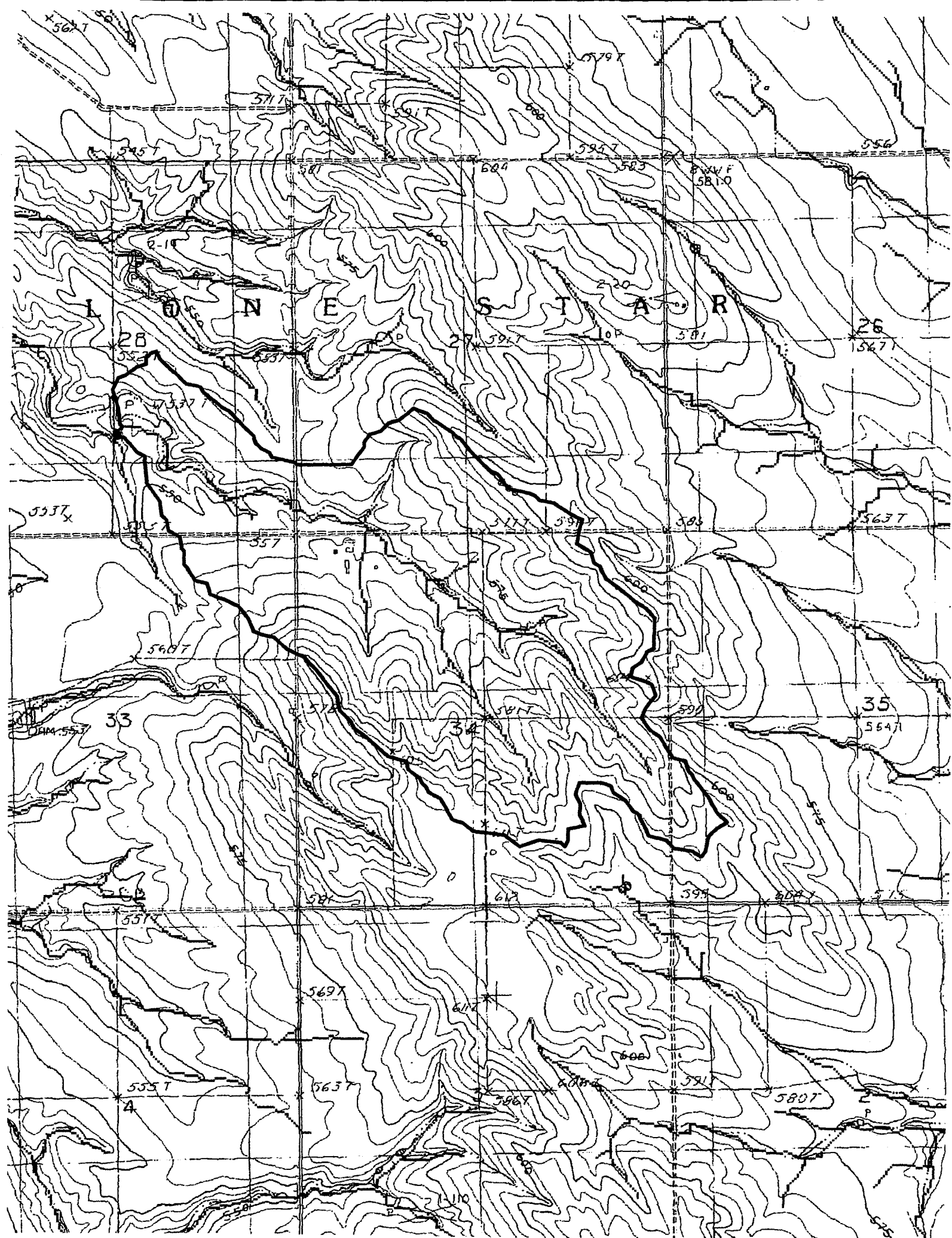
BY	DATE	PROJECT	SHEET ____ OF ____
CHKD BY	DATE	FEATURE	
DETAILS			

Stage - Storage

Shively #1 W¹/₂SE¹/₄ Sec 28, T102N, R75W

Tripp County





1*****
 SITES XEQ 12/20/2011 WATER RESOURCE SITE ANALYSIS COMPUTER PROGRAM
 VER 2005.1.05 (USER MANUAL - DATED DECEMBER 2005)
 TIME 15:04:31

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

SITES 01/01/2005 Snavely #1 SE28,T102N.R75W 0.915625 H5
 SAVMOV 0 101
 SAVMOV 101 1 1
 STRUCTURE

78 0
 100 10.1
 102.5 12.6
 105 14.9

ENDTABLE
 WSDATA 5A1 AC 82 586 9029 5.4
 PDIRECT 2.3 4.20
 POOLDATA ELEV 100.0 100 78 78 HD
 PSHOOD 116 79 1.35 1 S
 PSDATA 1 15 .01 78
 ASDATA 41 100 50 2 .08 2
 ASINSURF 41 .035
 ASINLET 41 0.0 0.0 80 0.0 3
 180 10

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

ENDTABLE
 ASEXIT 41 N 80
 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.

***** WARNING - A STRUCTURE TABLE ELEVATION DIFFERENCE WAS FOUND TO BE GREATER
 THAN TWENTY (20.) FEET.

***** 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 12/20/2011 Snavely #1 SE28,T102N.R75W WSID=
 VER 2005.1.05 SUBW= A
 TIME 15:04:31 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	
2.30	0.00	0.00	4.20	
WSDATA - CN	DA-SM	TC/L	-/H	QRF
82.00	0.92	9029.00	5.40	0.00
SITEDATA- PERM POOL	CREST PS	FP SED	VALLEY FL	378?
100.00	100.00	0.00	78.00	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	0.00	15.00	0.00	
PS N	KE	WEIR L	TW EL	
0.010	0.00	0.00	78.00	
2ND STG	ORF H	ORF L	START AUX.	
0.00	0.00	0.00	0.00	
PSHOOD - OUTLET	MITER	LENGTH	LENGTH	
ELEV.	ELEV.	INLET TO	MITER TO	
		MITER(FT)	OUTLET(FT)	
79.00	0.00	116.0	0.0	
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	100.00	50	
AUX.DATA - INLET N	SIDE SLOPE	EXIT N	EXIT SLOPE	ACTUAL AUX?
0.035	2.00	0.035	0.080	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 12/20/2011 Snavelly #1 SE28,T102N.R75W WSID=
 VER 2005.1.05 SUBW= A
 TIME 15:04:31 SITE = S 1 PASS= 1 PART= 2

MESSAGE ---- Climatic Index changed from 0.0 to 1.0 for this run.

PERM POOL 100.00 FT 111.1 ACFT 10.10 AC 0.0 CFS

PEAK = 222.9 CFS, AT 12.7 HRS.

ROUTED RESULT - HYD TYPE	EMAX	VOL-MAX	AMAX	QMAX
NRCS-PSH	102.20 FT	135.7 ACFT	12.30 AC	24.6 CFS

PS STORAGE 24.6 ACFT, BETWEEN AUX. CREST AND SED. ACCUM ELEVATIONS.

DRAWDOWN (DDT) TEST 100.00 FT 111.1 ACFT 0.00 CFS
CONTROL IS 0.000 DETENTION STORAGE

TIME LIMIT REACHED = 10.00 DAYS. FLOW WAS 0.09 CFS, ELEV = 100.08

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	100.00	0.00	0.00	0.00	111.10	10.10
2	100.35	0.44	0.44	0.00	114.74	10.45
3	100.71	1.84	1.84	0.00	118.51	10.81
4	101.06	4.06	4.06	0.00	122.40	11.16
5	101.42	5.88	5.88	0.00	126.42	11.52

FULL CONDUIT FLOW, ELEV = 101.75 FT

6	101.75	24.33	24.33	0.00	130.28	11.85
7	102.21	24.58	24.58	0.00	135.89	12.31
8	102.68	24.83	24.83	0.00	141.72	12.76
9	103.14	25.08	25.08	0.00	147.75	13.19
10	103.61	25.33	25.33	0.00	153.98	13.62
11	104.07	25.57	25.57	0.00	160.40	14.05
12	104.54	25.81	25.81	0.00	167.03	14.47
13	105.00	26.05	26.05	0.00	173.85	14.90

1SITES

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XEQ 12/20/2011      Snavely #1 SE28,T102N.R75W      WSID=
VER 2005.1.05      SUBW= A
TIME 15:04:31      SITE = S      1      PASS=      1      PART=      3

```

AUX. CREST 102.20 FT 135.7 ACFT 12.30 AC 24.6 CFS

PS STORAGE 24.6 ACFT, BETWEEN AUX. CREST AND SED. ACCUM ELEVATIONS.

START ELEV 100.08 FT 111.9 ACFT 10.18 AC 0.1 CFS
EFFECTIVE HEIGHT(H)= 24.2 FEET, PRODUCT= 3284. (H * STORAGE AT CREST AUX.).
INPUT DESIGN CLASS = A1 = LT 3000. PRODUCT.

***** WARNING - NHCP-378 CRITERIA DOES NOT APPLY WHEN THE EFFECTIVE HEIGHT
IS OVER 35 FEET OR THE PRODUCT IS 3000 OR GREATER.

NRCS-FBH D= 24.00 HR P= 4.20 IN Q= 2.37 IN DA= 0.92 SM
 TC= 1.24 HR CN= 82.00 VOL= 116.0 ACFT

PEAK = 656.2 CFS, AT 12.6 HRS.

***** WARNING - UPSTREAM END OF CREST 20. IS UPSTREAM OF THE
FIRST GROUND POINT 50. STATION.

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	100.00	0.00	0.00	0.00	111.10	10.10
2	100.18	0.10	0.10	0.00	112.91	10.28
3	100.35	0.44	0.44	0.00	114.74	10.45
4	100.53	1.02	1.02	0.00	116.61	10.63
5	100.71	1.84	1.84	0.00	118.51	10.81
6	100.89	2.88	2.88	0.00	120.44	10.99
7	101.06	4.06	4.06	0.00	122.40	11.16
8	101.24	5.16	5.16	0.00	124.40	11.34
9	101.42	5.88	5.88	0.00	126.42	11.52
10	101.58	15.11	15.11	0.00	128.34	11.68

FULL CONDUIT FLOW, ELEV = 101.75 FT

11	101.75	24.33	24.33	0.00	130.28	11.85
12	101.97	24.45	24.45	0.00	132.98	12.07
13	102.20	24.57	24.57	0.00	135.73	12.30
14	102.34	32.97	24.65	8.32	137.46	12.44
15	102.48	41.37	24.73	16.64	139.21	12.58
16	102.73	76.47	24.86	51.61	142.41	12.81
17	103.04	151.68	25.03	126.65	146.40	13.10
18	103.60	368.12	25.32	342.80	153.88	13.61
19	104.30	728.04	25.69	702.35	163.64	14.26
20	105.00	1187.72	26.05	1161.67	173.85	14.90

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	ROOTING DEPTH (ft)	REACH LOCATION *
1	20.	100.	0.0	0.035	**	**	**	CREST

2 100. 180. 8.0 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 2 used in computing exit channel velocities.

DRAWDOWN USING FREEBOARD STORM FOLLOWS, STARTING AT ELEVATION 102.20 FT.

DRAWDOWN (DDT) TEST 100.00 FT 111.1 ACFT 0.00 CFS
CONTROL IS 0.000 DETENTION STORAGE

TIME LIMIT REACHED = 10.00 DAYS. FLOW WAS 0.08 CFS, ELEV = 100.13

ROUTED RESULTS	BTM WIDTH FT	MAX ELEV FT	VOL-MAX ACFT	AREA-MAX AC	AUX.-HP FT	VOL-AUX. ACFT
NRCS-FBH	100.0	103.67	154.9	13.7	1.47	19.2

^^^^ NOTE -- ACTUAL Hp OF 1.47 RAISED TO MEET MIN. 378 CRITERIA.

PEAK - CFS	Q-PS	Q-AUX.	Q-TOT.
DISCHARGE =	25.4	379.6	405.0

	CRITICAL DEPTH FT	CRITICAL VELOCITY FT/SEC	CRITICAL SLOPE-Sc FT/FT	25% OF Q Sc FT/FT
AUXILIARY				
SPILLWAY ---	0.76	4.91	0.020	0.027

EROSIONALLY EFFECTIVE STRESS FOR STABILITY ANALYSIS OF AUX. EXIT CHANNEL
(Refer to Ag. Handbook 667, Chapt. 3, for allowable stresses.)

Aux. Spillway Discharge = 380. cfs; Bottom Width = 100. ft

REACH NO.	FROM STA	TO STA	SLOPE %	MANNING'S n	VELOCITY ft/s	TOTAL STRESS lb/ft^2	EFFECTIVE STRESS lb/ft^2
2	100.	180.	8.00	0.035	7.51	2.50	1.520

AUXILIARY SPILLWAY DURATION FLOW = 12.7 HOURS
ATTACK, OE/B = 0.7 ACFT/FT

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

EXIT CHANNEL FLOW SUPERCRITICAL: MAX VELOCITY= 7.5 FT/SEC
EXIT SLOPE = 0.080 FT/FT
FLOW DEPTH = 0.5 FT

>>>> NHCP378 RUN - MINIMUM DEPTH, CREST AUX. TO TOP OF DAM IS 2.00 FT.
NEW TOP OF DAM ELEVATION = 104.20.

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

RESULTS	FT	FT	ACFT	AC	FT	ACFT
MINIMUM AUX.	100.0	104.20	162.2	14.2	2.00	26.5
PEAK - CFS		Q-PS	Q-AUX.	Q-TOT.		
DISCHARGES =		25.6	650.6	676.2		
	CRITICAL	CRITICAL	CRITICAL	25% OF Q		
	DEPTH	VELOCITY	SLOPE-Sc	Sc		
AUXILIARY	FT	FT/SEC	FT/FT	FT/FT		
SPILLWAY ---	1.09	5.86	0.018	0.024		

>>>>> NHCP378 RUN - MINIMUM DEPTH, DESIGN FLOW TO TOP OF DAM; 1.00 FT REQUIRED
FOR THIS PASS. NEW TOP OF DAM ELEVATION = 104.67.

ROUTED	BTM WIDTH	MAX ELEV	VOL-MAX	AREA-MAX	AUX.HP	VOL-AUX.
RESULTS	FT	FT	ACFT	AC	FT	ACFT
MINIMUM AUX.	100.0	104.67	169.1	14.6	2.48	33.4
PEAK - CFS		Q-PS	Q-AUX.	Q-TOT.		
DISCHARGES =		25.9	947.0	972.8		
	CRITICAL	CRITICAL	CRITICAL	25% OF Q		
	DEPTH	VELOCITY	SLOPE-Sc	Sc		
AUXILIARY	FT	FT/SEC	FT/FT	FT/FT		
SPILLWAY ---	1.39	6.61	0.016	0.022		

Inflow Hyd 1 PSH-Peak = 24.57 CFS at 16.31 hrs., Location Point

Inflow Hyd 1 FBH-Peak = 404.98 CFS at 13.20 hrs., Location Point
HYDOUT 1

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

Snavelly #1 SE28,T102N.R75W

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	0.92	82.	1.24	0.92	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	15.0	102.2	100.0	2.5	104.7	0.	0.	7.5	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 2005.1.05 ,01/01/2005
FILES

INPUT = C:\snavelyl\15pvc.D2C
OUTPUT = C:\snavelyl\15pvc.OUT
DATED 12/20/2011 15:04:31

GRAPHICS FILES GENERATED

OPTION "L" = C:\snavelyl\15pvc.DRG DATED 12/20/2011 15:04:31

OPTION "P" = C:\snavelyl\15pvc.DHY DATED 12/20/2011 15:04:31

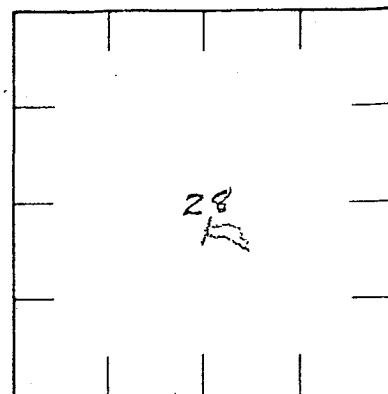
OPTION "E" = C:\snavelyl\15pvc.DEM DATED 12/20/2011 15:04:31

SD-ENG-17
7/74

STRUCTURE DATA

DRAINAGE AREA	ANNUAL YIELD	PEAK RUNOFF	EMERG. SPLWY. CAPACITY	WATER DEPTH	SURFACE AREA	SEDIMENT STORAGE	TOTAL STORAGE
ACRES	AC.FT.	25-YR.	C.F.S.	FEET	ACRES	AC.FT.	AC.FT.
750	47	375		15 ⁰	16 ac	15 ⁰	1200 ⁰

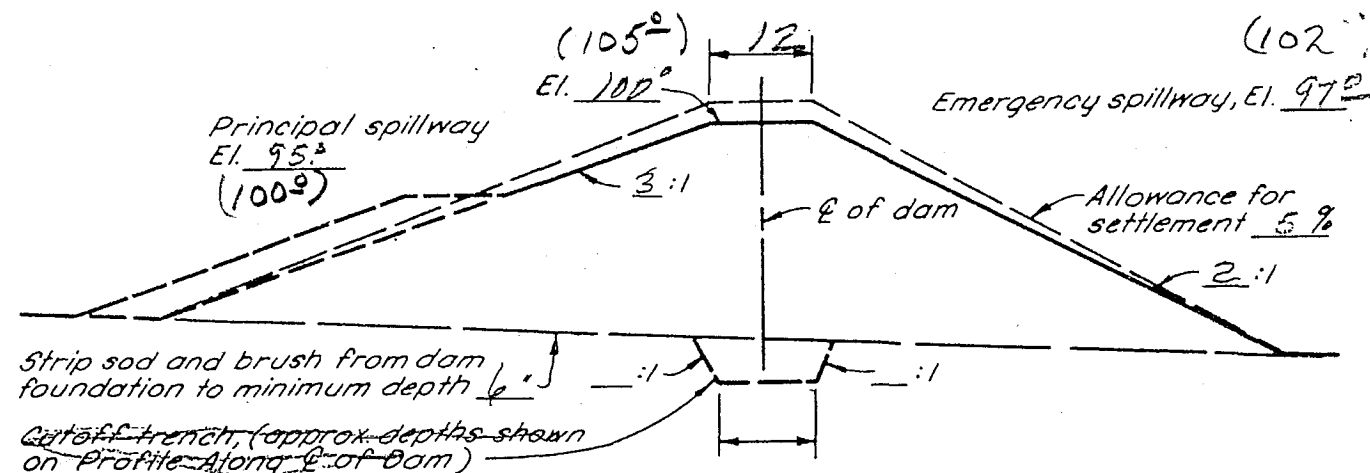
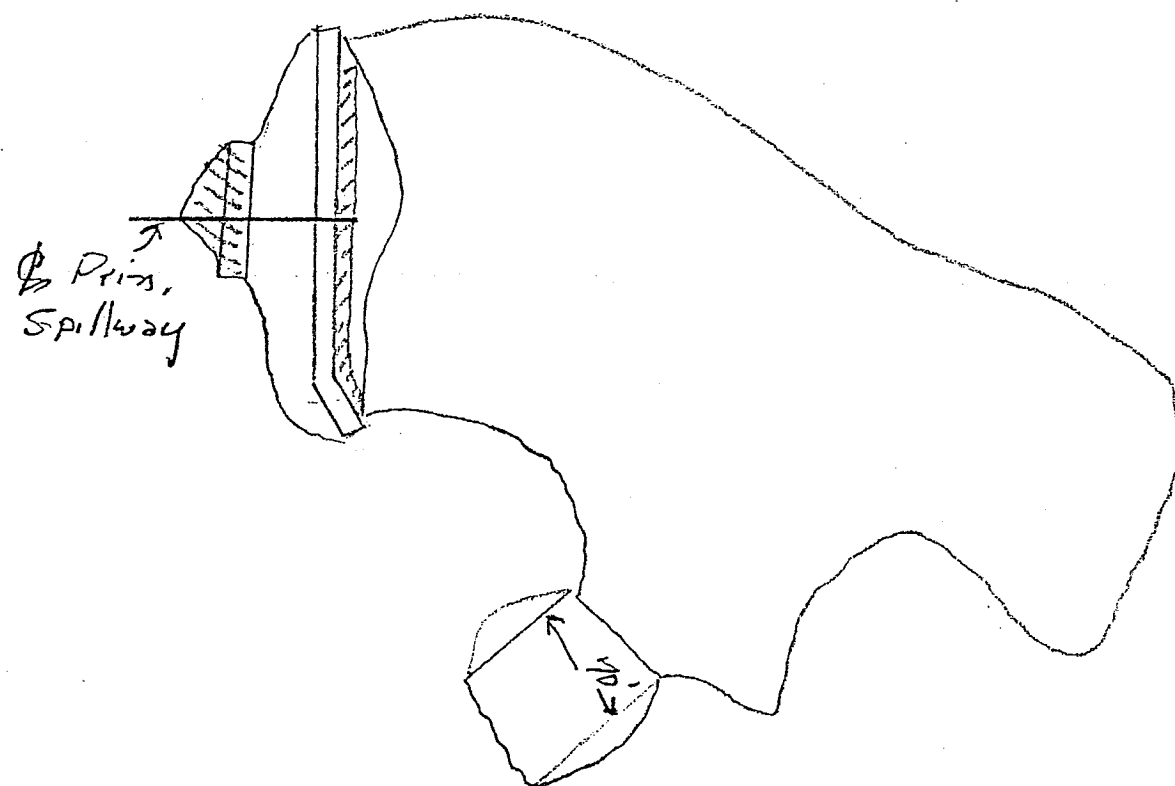
Existing 12" dia CMP has failed due to corrosion. Dam is being restored using guidelines in NEM section 501.22



sec. 24 T. 102 N. R. 75 W
Tripp County
LOCATION

TABLE OF QUANTITIES

ITEM	UNIT	QUANTITY
Earth Fill Dam Face Est	Cu Yds	450
Back Berm Est	Cu Yds	450
Excavation Em Spillway Est	Cu Yds	1200
Principal Spillway		
12" dia SDR 26 PVC Pipe	Lf	132
Excavation	Cu Yds	750
12" dia prefabricated elbow	ea	1
Timber Pipe Support	ea	1
Hood Tantal and Baffle	ea	1
Sand Anti Seep Collar		
Sand Filter Material	Cu Yds	1.3
4" dia PVC Schedule 40 Pipe Perforated	Ft	6
4" dia PVC Schedule Pipe	Ft	30
4" dia Tee & 2 Caps	ea	1



TYPICAL CROSS SECTION OF DAM

S.D. CONSTRUCTION AND MATERIAL SPECIFICATIONS:

SD-4
SD-5
SD-75
SD-9
SD-16
SD-17
SD-35

EARTH DAM

OPERATOR: <u>Don Pauli #1</u>	
CONSERVATION DISTRICT: <u>Harrell</u>	
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	
Designed: <u>C. Cook</u>	Date: <u>10-8-80</u>
Drawn: <u>C. Cook</u>	Approved by: <u>Charles Cook</u>
Traced: <u>C. Cook</u>	Title: <u>Civil Eng Tech</u>
Checked: <u>C. Cook</u>	Sheet: <u>1</u>
	Drawing No. <u>1</u>

SKETCH PLAN OF DAM AND RESERVOIR AREA

Approximate scale 1" = _____

REFERENCE: GUIDE PLAN NO. 1.0

JOB PLAN NO. 1.0

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AUG 06 2012
WATER RIGHTS
PROGRAM

Snavely #1 (Steve Sprawn)
Tripp Co.

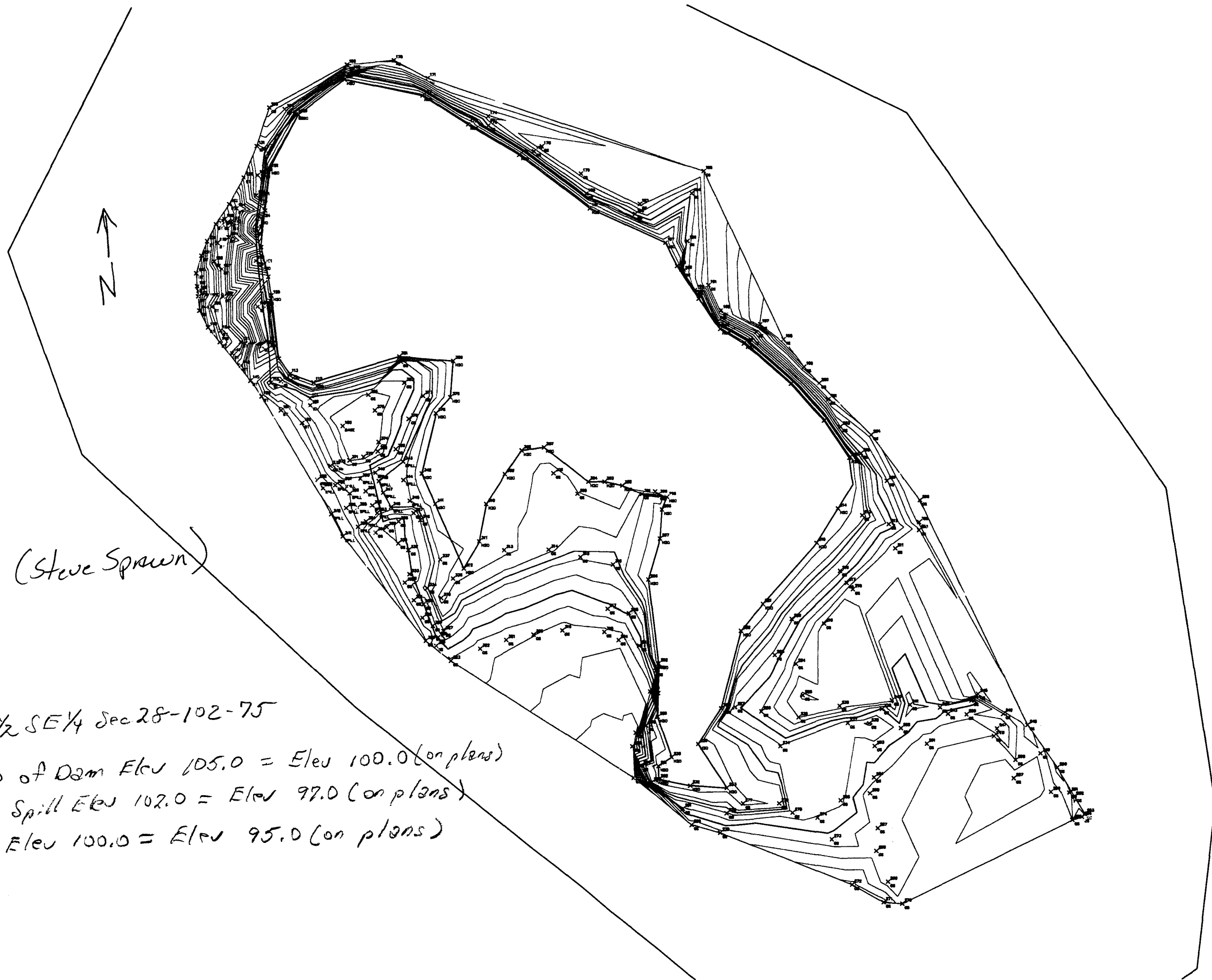
1" = 150'

#1 W 1/2 SE 1/4 Sec 28-102-75

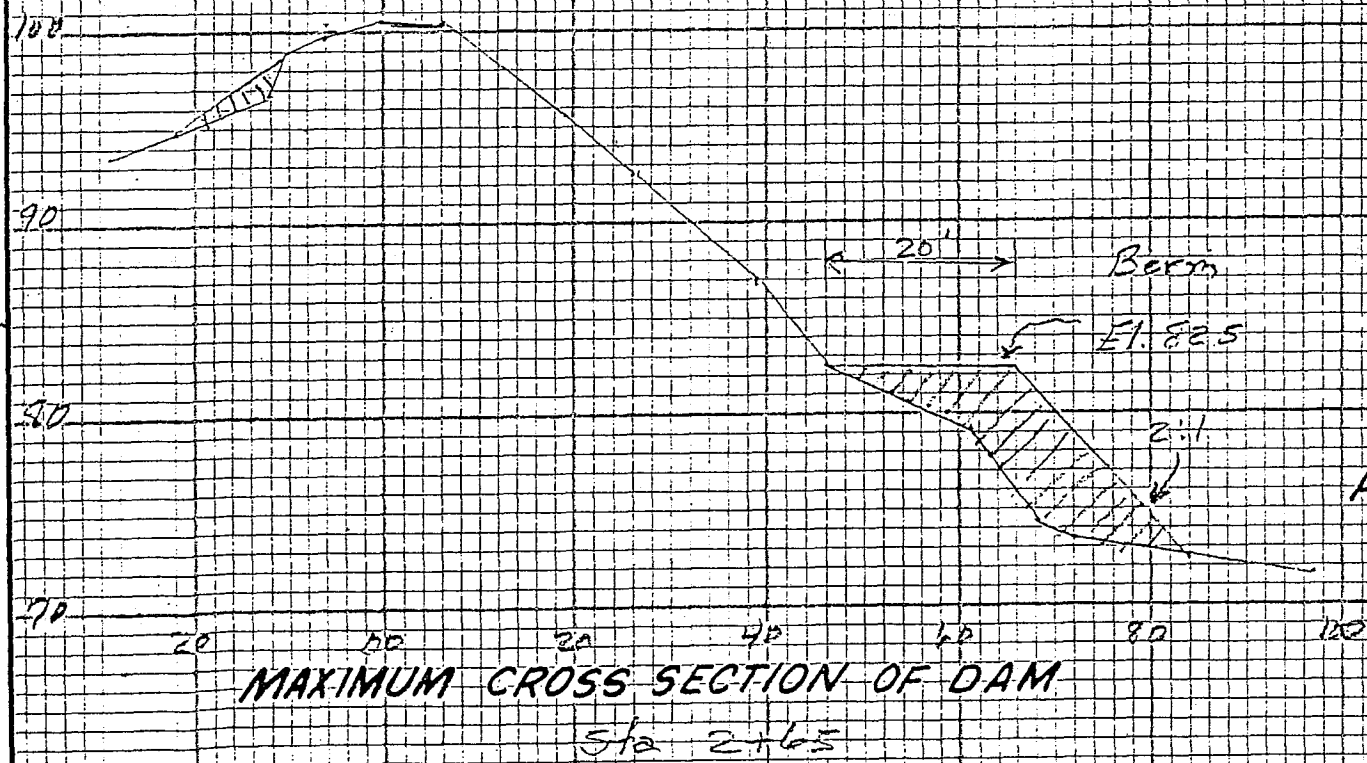
Note: Top of Dam Elev 105.0 = Elev 100.0 (on plans)

Em. Spill Elev 102.0 = Elev 97.0 (on plans)

P.S. Elev 100.0 = Elev 95.0 (on plans)



0+50 1+00 2+00 3+00 4+00 5+00
 CROSS SECTION AT CREST OF EMERGENCY SPILLWAY AND PROFILE ALONG C OF DAM

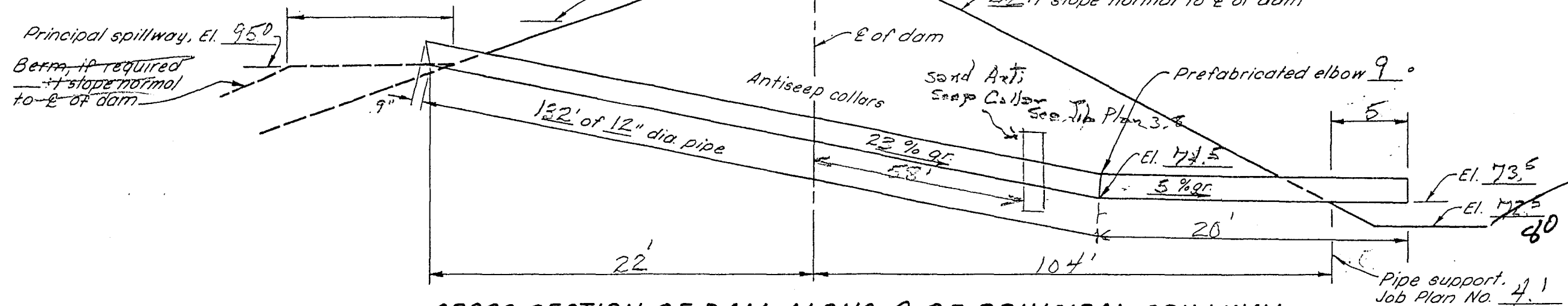


PROFILE ALONG C OF EMERGENCY SPILLWAY
 SEDIMENT YIELD

ERODIBILITY AREA ACRES	GROSS RATE A.F./AC./YR.	DRAINAGE AREA ACRES	DELIVERY RATE %	DESIGN PERIOD YEARS	REQ'D. SEDIMENT VOLUME AC. FT.

SD-ENG-14 1/74

Locate principal spillway pipe at E of dam Sta. 2+45, at an angle of 98° to the E of the dam



CROSS SECTION OF DAM ALONG E OF PRINCIPAL SPILLWAY

SPECIFICATION NOTES

- PIPE SHALL BE ZINC COATED CORRUGATED IRON OR STEEL PIPE CONFORMING TO FEDERAL SPECIFICATION WW-P-405, AND SHALL HAVE ANNULAR OR HELICAL CORRUGATIONS, A FULL CIRCULAR CROSS SECTION.
- RIVETED OR SPOT WELDED PIPE SHALL HAVE CAULKED SEAMS. ALL TYPES OF PIPE MUST HAVE WATERTIGHT CONNECTING BANDS.
- PIPE WALL THICKNESS SHALL BE ____".

SDR # 26

- Paint all exposed PVC Pipe with a Water Base Paint

TABLE OF QUANTITIES

ITEM	UNIT	QUANTITY
12" dia SDR 26 PVC Pipe	ft	132
Hood Inlet and Baffle	ea	1
Pipe Support	ea	1
12" dia Pipe 9° Elbow	ea	1
Sand Anti Seep Collar		
Filter Material	Cu Yds	1.3
4" dia Schedule 40 PVC Pipe		
Prefabricated	ft	6
4" dia Schedule 40 PVC Pipe	ft	27
4" dia Tee and Two Caps	ea	1

APPLICABLE STANDARD S.C.S. SPECIFICATIONS

Sec. 28 T. 102N, R. 75W
Tripp County
LOCATION

HOODED INLET PRINCIPAL SPILLWAY

OPERATOR: Don Pauli
CONSERVATION DISTRICT: Hamilton

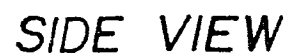
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed	Date	Approved by
Drawn		Title
Traced		Title
Checked	Sheet No. <u>2</u>	Drawing No.

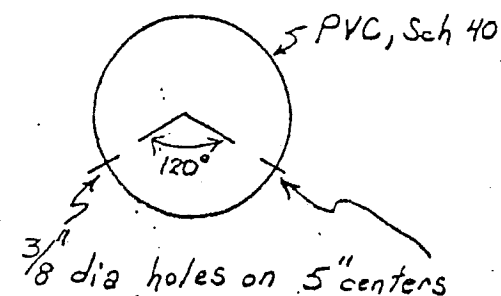
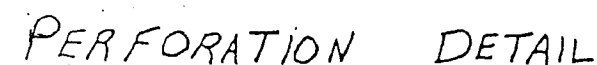
REFERENCE: GUIDE PLAN NO. 2.1

JOB PLAN NO. 2.1

5, N-29, 073.2-10/



1.3 C₄ H₄ S



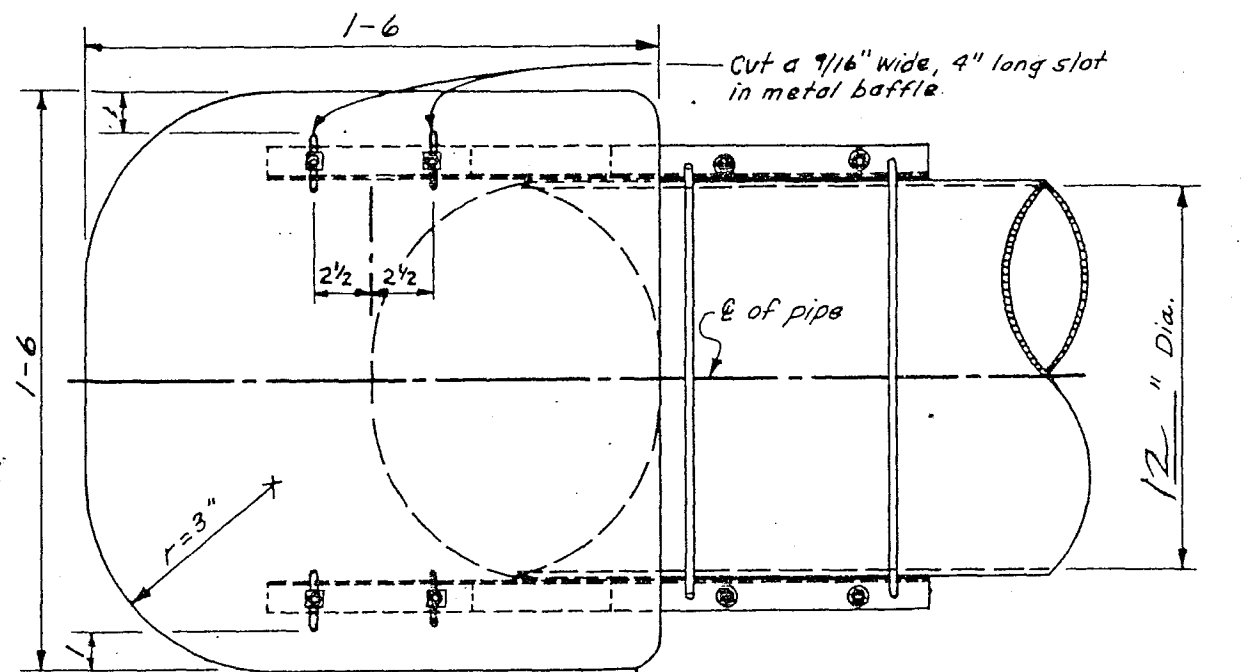
1. THE 4" DIA. PIPE SHALL BE ASTM D1785, SCHEDULE 40, PVC.
2. PROVIDE AN ANIMAL GUARD ON DRAIN OUTLET PIPE. DRILL 2, 1/2" DIA. HOLES, ON $\frac{1}{2}$ 6" FROM END OF PIPE AND PLACE A 3/8" DIA., 5 1/2" LONG GALVANIZED STEEL BOLT THRU THEM AND SECURE WITH A NUT (PLACE BOLT HORIZONTAL).

Trip County
LOCATION

SAND ANTISEEP COLLAR

Traced	Sheet	Drawing No.
Checked	No.	

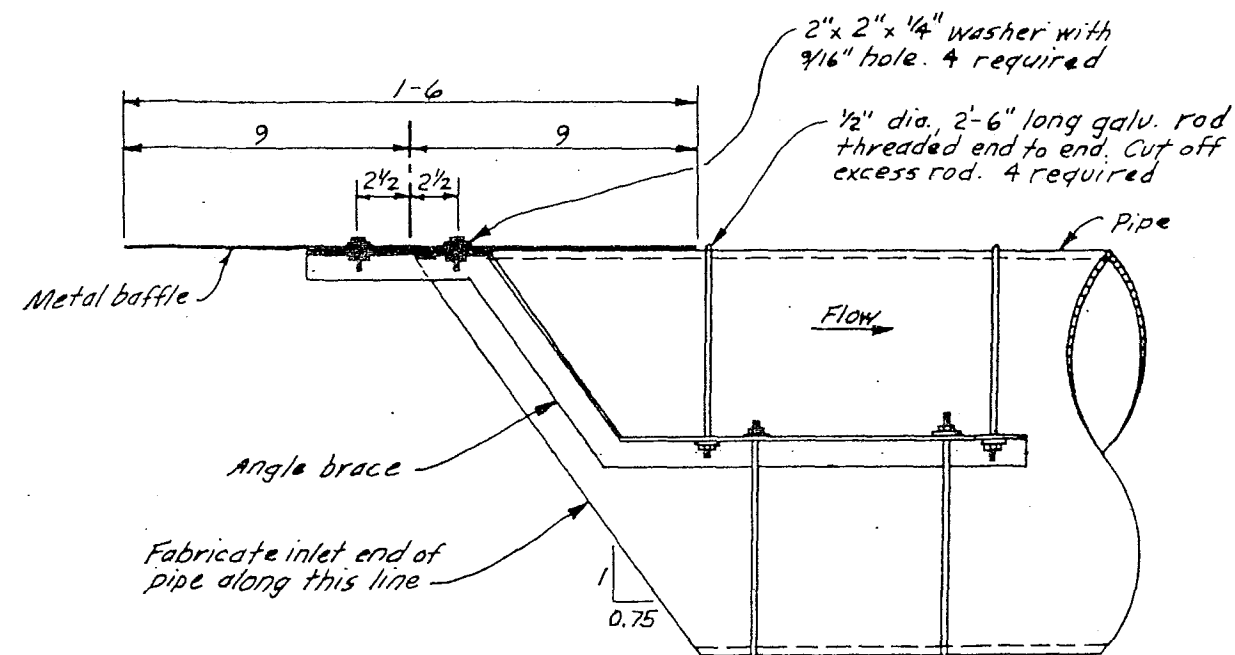
JOB PLAN NO. 3.8



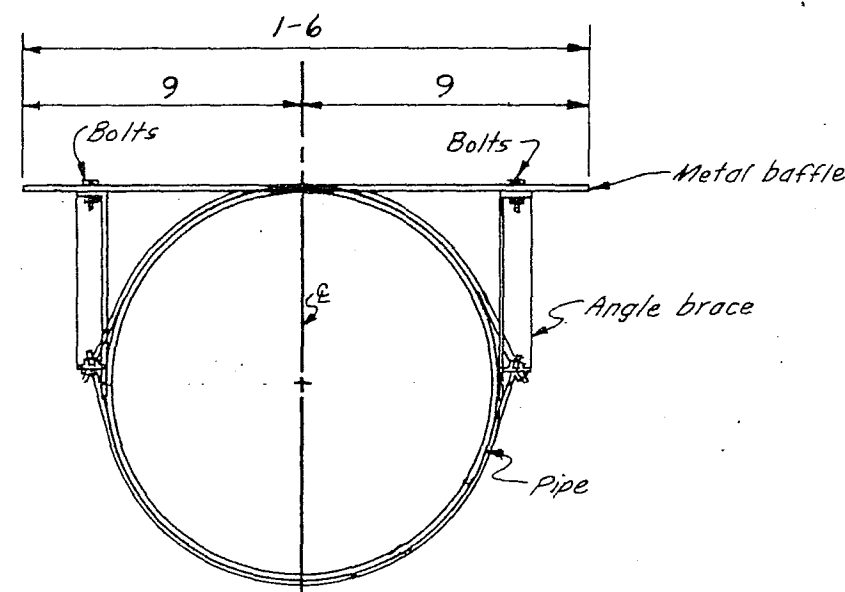
PLAN

TABLE OF QUANTITIES

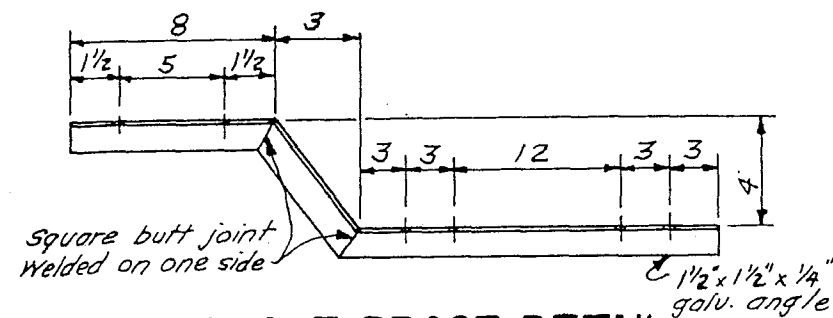
ITEM	UNIT	QUANTITY
STEEL BAFFLE, 1/4" THICK (GALV.)	SQ. FT.	2
1/2" DIA. GALV. ROD	EACH	4
1 1/2" x 1 1/2" x 1/4" GALV. ANGLE	LBS.	14
1/2" DIA. x 1 1/2" LONG GALV. BOLT	EACH	4



SIDE ELEVATION



FRONT ELEVATION



ANGLE BRACE DETAIL
(1 left and 1 right required)

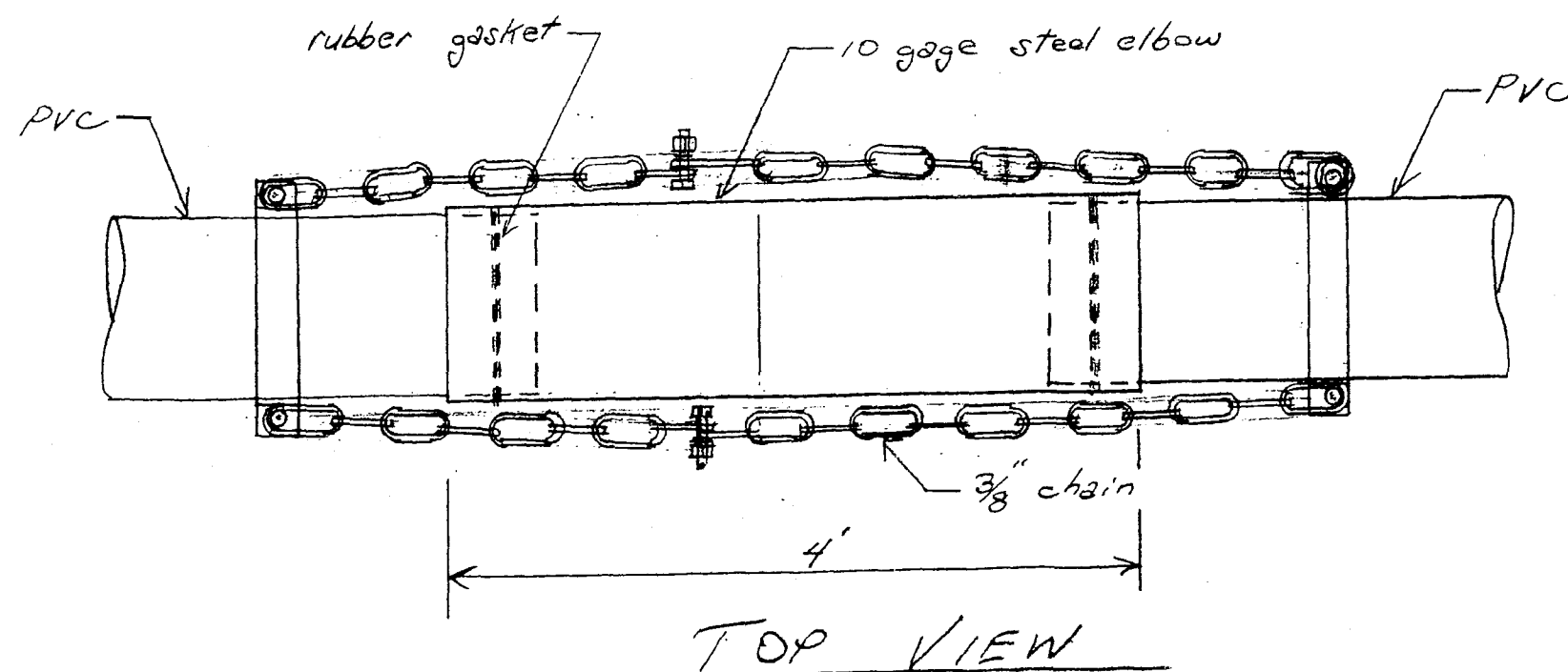
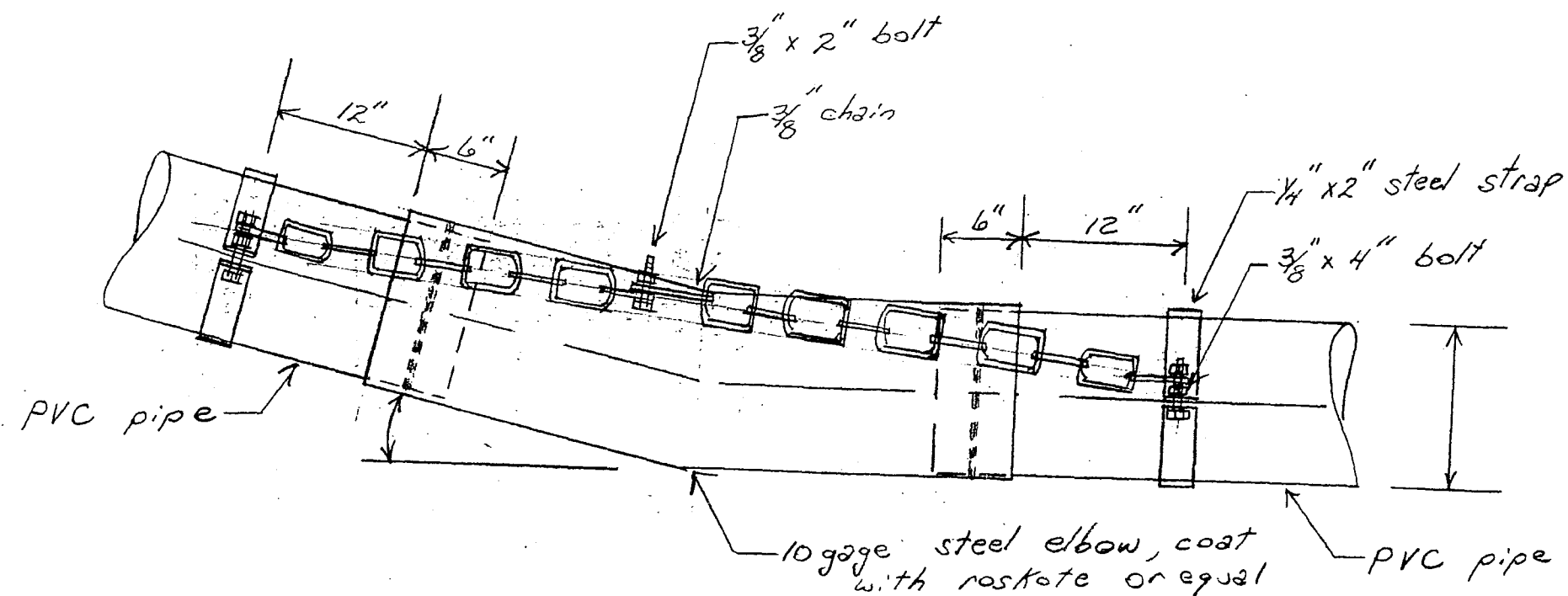
NOTES:

1. ALL BOLTS AND ROD SHALL HAVE A NUT AND SPLIT WASHER.
2. ALL STRUCTURAL STEEL SHALL BE GALVANIZED.
3. ALL DRILL HOLES SHALL BE 9/16".
4. BAFFLE WILL FIT 7" TO 14" O.D. PIPE, BUT BAFFLE SIZE IS ADEQUATE ONLY FOR 12" OR SMALLER I.D. PIPE.

HOOD INLET AND BAFFLE
FOR 8" THRU 12" I.D. PIPE

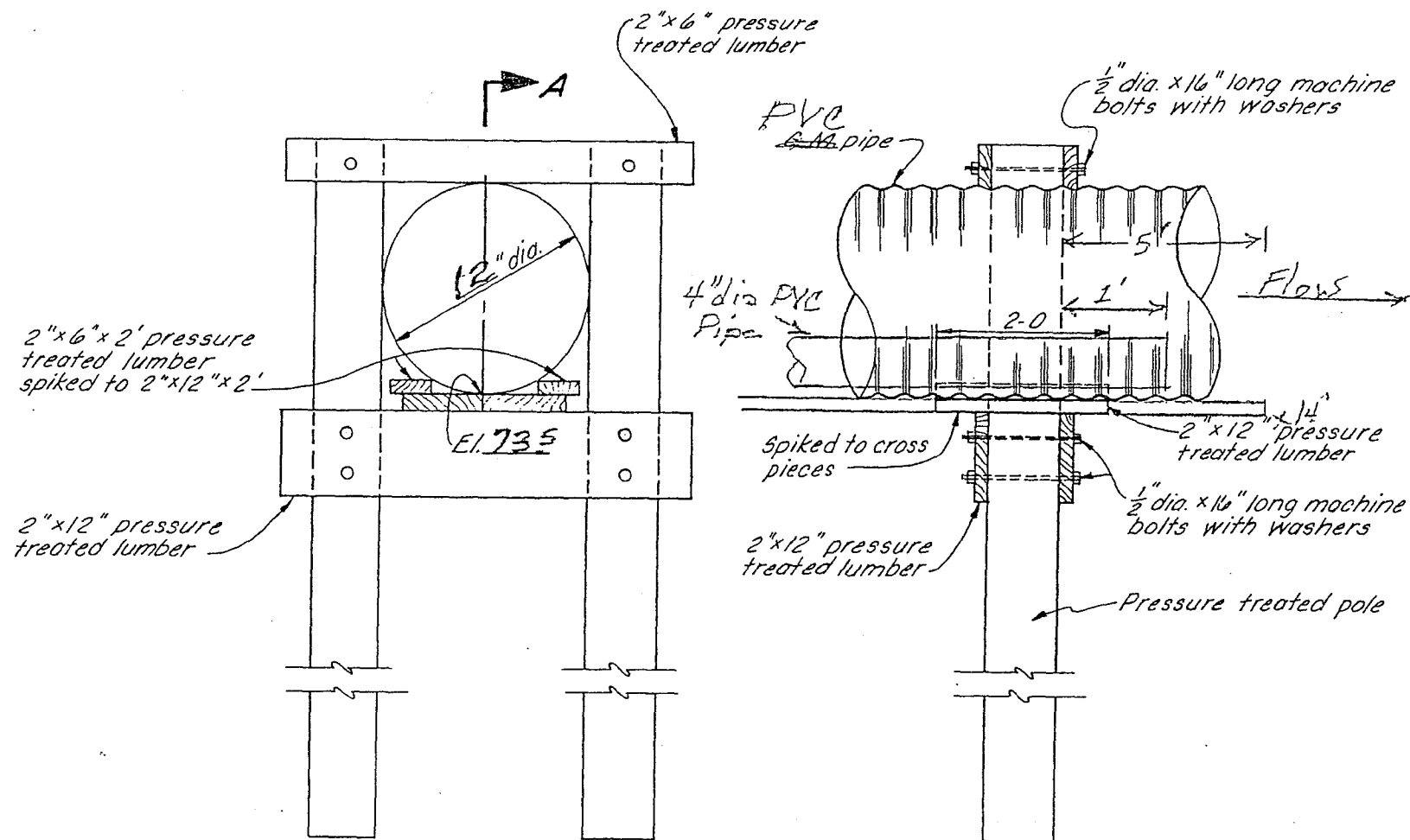
OPERATOR <u>Don Pauli</u>	
CONSERVATION DISTRICT: <u>Hamill</u>	
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	
Designed <u>C. Cool</u>	Date <u>1-25</u>
Drawn	Approved by
Traced	Title
Checked	Sheet No. <u>5</u>
	Drawing No.

SIDE VIEW



RETAINER FOR STEEL
ELBOW IN PVC PIPE

U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE			
Designed <i>Korechne</i>	Date <i>10/80</i>	Approved by _____	
Drawn _____	Title _____		
Traced _____	Title _____		
Checked _____	Sheet _____	Drawing No. _____	
	No. _____		
	of _____		



ELEVATION
SECTIONAL ELEVATION A-A

TABLE OF QUANTITIES

ITEM	LENGTH FOR 12" DIA. PIPE	UNIT	QUANTITY
PRESSURE TREATED POLE 8" DIA.	8'-0"	EACH	2
2" X 12" PRESSURE TREATED LUMBER	3'-0"	EACH	2
2" X 6" PRESSURE TREATED LUMBER	3'-0"	EACH	2
2" X 12" PRESSURE TREATED LUMBER	14'-0"	EACH	1
2" X 6" PRESSURE TREATED LUMBER	2'-0"	EACH	2
1/2" DIA. MACHINE BOLTS WITH NUTS	1'-2"	EACH	6
1/2" DIA. WASHERS		EACH	12

NOTES:

1. HAND OR MACHINE TAMP BACKFILL THOROUGHLY AROUND FOOTINGS AND COLUMNS.
2. PAINT ALL EXPOSED PVC PIPE
WITH A WATER BASE PAINT

TIMBER PIPE SUPPORT

OPERATOR: <u>Don Pauli</u>	
CONSERVATION DISTRICT: <u>Hamill</u>	
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	
Designed: <u>C. Cook</u>	Date: <u>10-2</u>
Drawn: _____	Approved by: _____
Traced: _____	Title: _____
Checked: _____	Title: _____
	Sheet No. <u>1</u> of <u>5</u>
	Drawing No. _____

Water Permit Application No. 2689-2
Julia E. Snavely

Top of Dam Elev. - 105
2nd Spillway Elev. - 102
P. Spillway Elev. - 100
Dis Emb. Toe Elev. - 80
Ht. = 25 ft.

Cat. 3 - Low Hazard Dam

Normal Storage Capacity - 111 Ac-Ft
Int. Storage Capacity - 132
Max. Storage Capacity - 174

Int. Capacity x Eff Ht. = $132 \times 21 = 2772 \approx 3000 \therefore 25\text{-yr}$
Minimum Spillway Design

From USGS WRI 94-4055 "Tech. for Estimating Peak Flows ... in 50°
Region C DA = 750 Ac = 1.17 mi²

$$\begin{aligned} Q_{25} &= 207 C A^{.573} \\ &= 207 (1.17)^{.573} \\ &= 207 (1.0941) \\ &= \underline{226 \text{ cfs}} \end{aligned}$$

$$\begin{aligned} Q_{100} &= 379 C A^{.566} \\ &= 379 (1.17)^{.566} \\ &= 379 (1.0929) \\ &= \underline{414 \text{ cfs}} \end{aligned}$$

$$\begin{aligned} Q &= C L H^{3/2} \quad C = 2.6 \\ &= 2.6 (70) (3)^{1.5} \quad L = 70 \quad H = 3 \\ &= \underline{945 \text{ cfs}} \end{aligned}$$

NRCS Annual Yield
DA = 750 CN = 82 ISO = 242

Section 74:02:08:09

1. Topo Map - OK
2. Dam Axis Profile - OK
3. Dam Max 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 - N/A Cat. 3 - OK

$$\begin{aligned} 80\% \text{ chance} &= 0.44 \\ 0.44 \times 750/12 &= \underline{27.5 \text{ Ac-Ft}} \end{aligned}$$

$$\begin{aligned} 50\% \text{ chance} &= 1.0 \\ 1.0 \times 750/12 &= \underline{62.5 \text{ Ac-Ft}} \end{aligned}$$

$$\begin{aligned} 10\% \text{ chance} &= 3.5 \\ 3.5 \times 750/12 &= \underline{219 \text{ Ac-Ft}} \end{aligned}$$



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

September 6, 2012

Julie E. Snavelly
725 W. 5th St.
Winner, SD 57580

Dear Ms. Snavelly:

We have reviewed the plans and specifications for your dam project located in the NW ¼ SE ¼ of Sec. 28-T102N-R75W, in Tripp County. The plans and specifications for the reconstruction of the existing dam are approved. Approval of the plans and specifications does not authorize reconstruction of the dam. The reconstruction of the dam may not begin until Water Permit No. 2689-2 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 Snavelly No.1 dam will be classified as a small size Category 3, Low Hazard dam with a dam height of 25 ft. and a normal storage capacity of 111 acre-feet and a maximum storage capacity of 174 acre-feet.

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

Sincerely,

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

c: Steve Spawn, USFWS
Dave Konechne



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 2689-2, Julie E Snavely**

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. 2689-2, Julie E Snavely, 725 W 5th Street, Winner SD 57580.

The Chief Engineer is recommending APPROVAL of Application No. 2689-2 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. 2689-2 authorizes an impoundment with a storage capacity of 111 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 6, 2012

REPORT ON
WATER PERMIT APPLICATION No. 2689-2
Julie E. Snavelly
August 29, 2012

Water Permit Application No. 2689-2 has been filed by Julie E. Snavelly to impound 111 acre-feet of water from runoff by reconstructing an existing dam located in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 28-T102N-R75W, in Tripp 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, reconstruction of the dam can not begin until Water Permit Application No. 2689-2 is approved.

The dam will be 25 feet high with a normal storage capacity of 111 acre-feet with a reservoir level at the primary spillway elevation, and a maximum storage capacity of 174 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 750 acres or 1.17 square miles. The dam is designed to have a 12 inch diameter CMP conduit with 5.0 feet of freeboard as the primary spillway, and a 70 foot wide earthcut secondary spillway with 3 feet of freeboard. A 25 year frequency event produces a peak runoff of approximately 226 cfs and a 100 year frequency event produces a peak runoff of approximately 414 cfs. The earthcut spillway will have a capacity of approximately 945 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 27.5 acre-feet. The annual yield with a 50 percent chance of occurrence, or 1 out of 2 years, is expected to be 62.5 acre-feet and the annual yield with a 10 percent chance, or 1 out of 10 years, is expected to be 219 acre-feet.

The Snavelly No. 1 Dam will be located in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 28-T102N-R75W on an unnamed tributary to Old Lodge Creek, about 2 miles upstream of the confluence of the unnamed tributary and Old Lodge Creek and about 7 miles upstream of the confluence of Old Lodge Creek and the White River. Water Permit Application No. 2690-2 has been filed by Chris Snavelly to repair an existing dam (Snavelly Dam No.2) located about one-half mile downstream of Snavelly Dam No.1. There are no other existing Water Permits/Rights filed on the unnamed tributary or Old Lodge Creek between the proposed dam and the White River.

Conclusions:

1. Water Permit Application No. 2689-2 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. 2689-2.



Timothy G. Schaal, P.E.
Natural Resources Engineer IV

RECEIVED

SEP 19 2012

Form 8

WATER RIGHTS
PROGRAM

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)

County of Hughes) SS

I, Marylinn Baker

certify that the attached printed Notice was
taken

from the Capital Journal

printed and published in Pierre

County of Hughes and

state of South Dakota. The notice was
published

in the newspaper on the following date:

9-12-12

Cost of Printing \$24.93

Marylinn Baker
(Signature)

Bookkeeper
(Title)

9-17-12

(Date Signed)

NOTICE OF
APPLICATION
NO. 2689-2 to
Appropriate
Water
Notice is given
that Julie E. Sna-
vely, 725 W 5th
St., Winner SD
57580 has filed an
application for a
water permit to im-
pound 111
acre-feet of water
from runoff by re-
constructing a
dam located in the
NW 1/4 SE 1/4
Section 28 with
water impounded
in the NW 1/4 SE
1/4 Section 28 all
in T102N-R75W.
This application
requests impound-
ment of sufficient
water to maintain
water to the outlet
elevation. The wa-
ter is for fish and
wildlife propaga-
tion and livestock
water purposes.
Pursuant to
SDCL 46-2A-2,
the Chief Engineer
recommends AP-
PROVAL of Appli-
cation No. 2689-2
because 1) unap-
propriated water is
available, 2) exist-
ing rights will not
be unlawfully im-
paired, 3) it is a

beneficial use of the applicant's
water, and 4) it is mailing address is
in the public inter-given above. A
est. in accordance petition filed by ei-
with SDCL ther an interested
46-2A-23, the person or the ap-
Chief Engineer will plicant must be
act on this appli- filed by Septem-
cation, as recom- ber 24, 2012.
mended, unless a The petition may
petition is filed op- be informal, but
posing the appli- must include a
cation or the appli- statement describ-
cant files a petition ing the petitioner's
contesting the interest in the ap-
Chief Engineer's plication, the peti-
recommendation. tioner's reasons
If a petition oppos- for opposing or
ing the application supporting the ap-
or contesting the plication, and the
recommendation signature and
is filed, then a mailing address of
hearing will be the petitioner or
scheduled and the petitioner's le-
Water Manage- gal counsel, if le-
ment Board will gal counsel is ob-
consider this ap- tained. Contact
plication, Notice of Eric Gronlund at
the hearing will be the above Water
given to the appli- Rights Program
cant and any per- address to request
son filing a peti- copies of informa-
tion pertaining to
this application.
Any person inter-
ested in opposing Steven M. Pimer,
or supporting this Secretary, Depart-
application or rec- ment of Environ-
ommendation. ment and Natural
must file a written Resources.
petition with
BOTH the appli- Published once at
cant and Chief En- the total approxi-
gineer. The appli- mate cost of
cant must file a \$29.93.
petition if contest-
ing the Chief Engi-
neer's recommen-
dation. The Chief
Engineer's ad-
dress is "Water
Rights Program,
Foss Building, 523
E Capitol, Pierre
SD 57501 (605
773-3352)" and

AFFIDAVIT OF PUBLICATION

State of South Dakota, county of Tripp-ss.

Dan Bechtold

of said county being first duly sworn, on oath says that he is the Editor of

WINNER ADVOCATE

a weekly newspaper printed and published at Winner, said county of Tripp, 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 a least two hundred copies weekly and has been published within said County for fifty-two successive weeks prior to the publication of the notice herein mentioned, and was printed wholly or in part in a office maintained at said place of publication; that the

61 lines @ 1 column rate

Notice of Application

Julie Snavely

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 one in each week for 1 weeks, on the day of each week on which said newspaper was regularly published to wit:

09/12/12

That the full amount of the fees for the publication of the *annexed notice is \$ 22.88

Dan Bechtold

Subscribed and sworn to before me this 12th day of September, 2012

Patricia Arvin

Notary Public

County of Tripp, South Dakota

My Commission Expires November 4, 2015

RECEIVED

SEP 13 2012

WATER RIGHTS
PROGRAM

NOTICE OF APPLICATION NO. 2689-2

TO APPROPRIATE WATER

Notice is given that Julie E Snavely, 725 W 5th St, Winner SD 57580 has filed an application for a water permit to impound 111 acre-feet of water from runoff by reconstructing a dam located in the NW 1/4 Section 28 with water impounded in the NW 1/4 SE 1/4 Section 28 all in T102N-R75W. 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. 2689-2 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 September 24, 2012.

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

Published once at the total approximate cost of \$22.88 (37)

SEAL
Patricia Arvin
Notary Public
SOUTH DAKOTA



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

September 6, 2012

Capital Journal
PO Box 878
Pierre SD 57501

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 2689-2 to Appropriate Water. Please publish the notice once on September 12, 2012. 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 and arrange for payment. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Julie E Snavely, 725 W 5th St., Winner SD 57580 (Ph # 605-842-3353).

Please send the Water Rights Program an affidavit or the enclosed Proof of Publication form immediately.

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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

September 6, 2012

Winner Advocate
125 W 3rd St
Winner SD 57580

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 2689-2 to Appropriate Water. Please publish the notice once on September 12, 2012. 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 and arrange for payment. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Julie E Snavely, 725 W 5th St., Winner SD 57580 (Ph # 605-842-3353).

Please send the Water Rights Program an affidavit or the enclosed Proof of Publication form immediately.

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,

A handwritten signature in cursive script, appearing to read 'Eric Gronlund'.

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATE, CONTACT
THE NEWSPAPER(S) RIGHT AWAY.

September 6, 2012

Julie E Snavely
725 W 5th St
Winner SD 57580

Dear Ms. Snavely:

Water Permit Application No. 2689-2 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 Winner Advocate printed at Winner SD (Ph # 605-842-1481) and the Capital Journal printed at Pierre SD (Ph # 605-224-7301). You will need to contact the newspaper(s) 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(s) to authorize publication of your Notice and to arrange for payment. Early contact with the paper(s) can eliminate delays. Upon receiving authorization from you, the publisher has been instructed to publish your notice. 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 the Notice on September 12, 2012. The applicant is responsible for payment. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352 or email: Karen.schlaak@state.sd.us.

NOTICE OF APPLICATION NO. 2689-2 to Appropriate Water

Notice is given that Julie E Snavely, 725 W 5th St, Winner SD 57580 has filed an application for a water permit to impound 111 acre-feet of water from runoff by reconstructing a dam located in the NW ¼ SE ¼ Section 28 with water impounded in the NW ¼ SE ¼ Section 28 all in T102N-R75W. 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. 2689-2 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 September 24, 2012.

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

Published once at the total approximate cost of _____.



**DEPARTMENT of ENVIRONMENT
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denr.sd.gov

SEP 28 2012

Julie E Snavelly
725 W 5th St
Winner SD 57580

Dear Ms. Snavelly:

Enclosed is Water Permit No. 2689-2 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

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RECEIVED

JUL 19 2013

WATER RIGHTS
PROGRAMNOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USEDate 7/18/13TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181FROM: Julie E. Snively

(name)

725 W 5th St

(address)

Winner SD 57580

(city, state, zip)

605-842-3353

(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. 2689-2 states that the water use system is to be constructed by 9-24-2017, and water is to be put to beneficial use by 9-24-2017.

(date)

(date)

The water use system was completed on 11/30/2012.

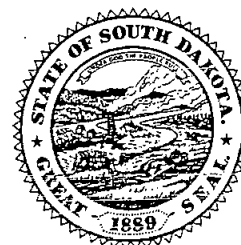
(date)

Applying the water to beneficial use was completed on 6/1/2013.

(date)

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

Julie E. Snively
(signature)





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

July 22, 2013

2689-2
2690-2

Chris & Julie Snavelly
725 W 5th St
Winner SD 57580

Dear Mr. & Mrs. Snavelly:

I am writing to acknowledge receipt of the "Notice of Completion of Works" forms you sent in to let us know that you are completed with the projects authorized under Water Permit Nos. 2689-2 and 2690-2.

The systems are 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 the projects and the staff inspection has no bearing on your water permits.

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 cursive script that reads "Genny McMath".

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

Permit No. 2689-2
White 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, November 7, 2014, made a thorough examination of the water use system constructed by Julie E. Snively of 725 W. 5th St., Winner, SD 57580 holder of Permit No. 2689-2, bearing the priority of August 6, 2012 authorizing the storage of 111 acre-feet of the waters of runoff for fish & wildlife production and livestock water purposes, in Tripp County.

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

A. Works used to divert the water:

A 25 foot high earthen dam with a normal storage capacity of 111 ac-ft. of water.

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

N/A

C. Works used to apply water to beneficial use:

A 25 foot high earthen dam with a normal storage capacity of 111 ac-ft. of water.

The system is in the following condition good. The point of diversion is located 1750 ft. north & 2640 ft. west of the SE corner of Section 28-T102N-R75W (NW ¼ SE ¼) (Lat. 43.60620, Long. -99.81257). The works are capable of storing 111 acre-feet of water which is to be used for fish & wildlife production and livestock water. Water has been put to beneficial use to the maximum extent as follows:

A 25 foot high earthen dam with a normal storage capacity of 111 ac-ft. of water.

and the license should be issued for 111 acre-feet of storage.

Applicable permit qualifications have been complied with: Yes X

Exceptions to compliance are: none Date Report Completed: February 5, 2015



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

REPORT ON INSPECTION OF PERMIT NO. 2689-2

DATE OF INSPECTION: November 7, 2014

NAME & ADDRESS OF PERMIT HOLDER: Julie E. Snavelly, 725 W 5th St., Winner, SD 57580

DIVERSION POINT LEGAL LOCATION: 1750 ft. north & 2640 ft. west of the SE corner of Section 28-T102N-R75W (NW ¼ SE ¼) (Lat. 43.60620, Long. -99.81257).

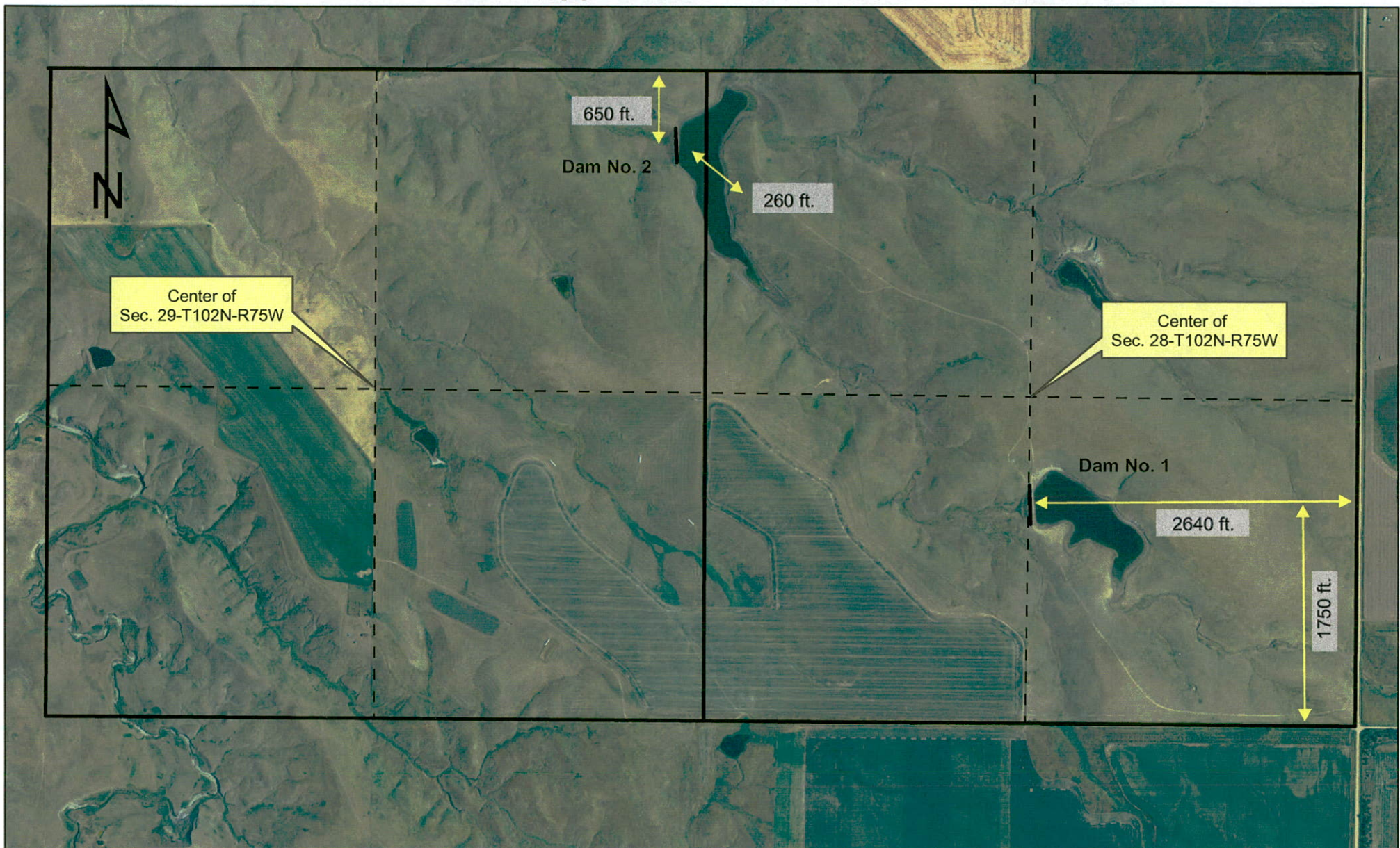
DAM INFORMATION:

- 1) Height to crest 25 feet
- 2) Height to primary spillway 20 feet
- 3) Height to secondary spillway 22 feet
- 4) Crest width 12 feet
- 5) Crest length XXX feet
- 6) Spillway length XXX feet
- 7) Spillway width 70 feet
- 8) Approx. storage (Normal) 111 acre-feet
- 9) Approx. storage (Maximum) 174 acre-feet
- 10) Date constructed: 2012

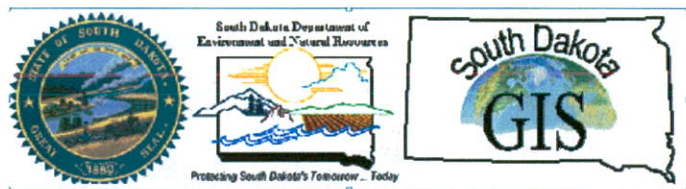
PERMIT QUALIFICATIONS AND REGULATIONS:

- 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 Nos. 2689-2 & 2690-2



0 0.25 0.5 1 Miles



Timothy G. Schaal
Timothy G. Schaal, P.E.
Engineer IV
SD DENR, Water Rights Program
2/5/15



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
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PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

MAR 19 2015

2689-2

Julie E Snavelly
725 W 5th St
Winner SD 57580

Dear Ms. Snavelly:

Enclosed is Water License No. 2689-2. 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,

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

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 2689-2

(1) Julie E Snavelly, 725 W 5th St, Winner SD 57580 made Application No. 2689-2, August 6, 2012 for a water permit to impound 111 acre feet of runoff water by reconstructing a dam located in Tripp County, South Dakota for fish & wildlife propagation and livestock watering purposes. Permit No. 2689-2, with a priority date of August 6, 2012 was approved September 24, 2012 and issued to the applicant for impoundment of water with construction of the described storage dam to be completed on or before September 24, 2017 and the application to beneficial use of water on or before September 24, 2021.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the project and is entitled to impound 111 acre feet of water for beneficial use.

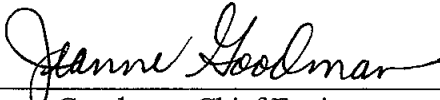
The location of the storage dam (spillway) is located 1,750 feet north & 2,640 feet west of the SE corner of Section 28, T102N, R75W (NW ¼ SE ¼). Water is impounded in the NW ¼ SE ¼ Section 28, T102N, R75W.

(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 Julie E Snavelly, 725 W 5th St, Winner SD 57580 the holder and/or owner of Water Right No. 2689-2 is issued a license to appropriate water, the right to impound 111 acre feet of water from runoff with a priority date of August 6, 2012 from the location specified in (2) of this license for fish & wildlife propagation and livestock watering purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 2689-2 and subject to the following qualifications:

- Water Right No. 2689-2 authorizes an impoundment with a storage capacity of 111 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

MAR 19 2015

date

