

WATER PERMIT NO. 6707-3

Name of Applicant: Prairie Coteau Restoration

Address: 51437 335th St, Grove City MN 56243

Phone: 320 857-2315

Amount of Water Claimed: 99.80 acre-feet storage

Total Acres: NA

Source of Water Supply: runoff and existing well

Water to be used for: fish & wildlife propagation

County: Day

Type of Waste Disposal System:

Location: 7 miles south of Waubay

PRIORITY

Date Received: 3-24-06

Application/License Fee: \$200

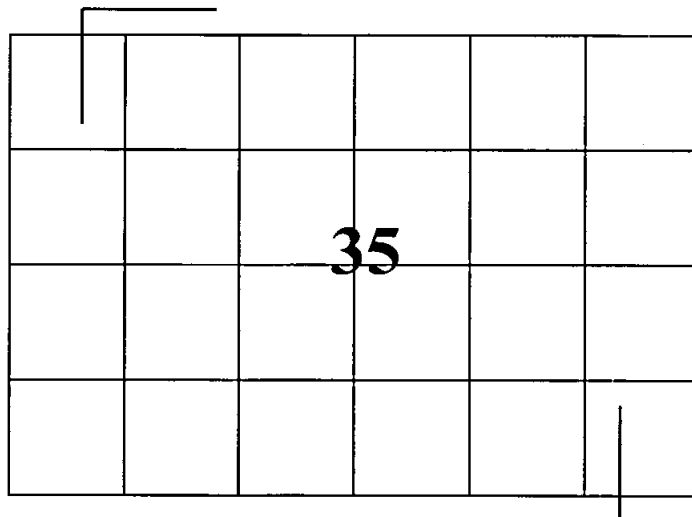
Corrected Application Received:

Period of Annual Use: January 1 – December 31

Remarks: increases the storage capacity authorized by Water Right No. 4191-3 and includes fish & wildlife propagation use

Diversion Point: W ½ Sec 35-T121N-R54W

Water Impounded: S ½, S ½ NE ¼ Sec 35-T121N-R54W



Depth of Well:

Well Driller:

Remarks:

Type of Map: plat

Burke

Prepared by: Michelle Runke, PE

Reviewed and the Number Assigned on: 3-27-06

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

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

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6707-3</u> (office use only) Hydrologic Unit <u>10160010</u>
	Basin <u>James River</u>
	Newspaper <u>Waubay Clipper, Waubay</u>

RECEIVED
MAR 24 2006
WATER RIGHTS
PROGRAM

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

Check use(s) of water:

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

Type of Application: (check one)
☒ New ☐ Vested Right (Use predates Mar 2, 1955) ☐ Future Use Reservation
☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____
☒ Amendment/Correction to Permit No. 4191-3

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

This application serves two functions. (1) Secures 99.8 acre-feet of storage for a 83.8 acre wetland restoration, and (2) amends permit 4191-3 to include fish and wildlife production.

- Name of Applicant Prairie Coteau Restoration (Harold Minnick) Phone (320) 857-2315
(check one) ☐ Owner ☐ Tenant/lessee
Mailing Address 51437 335th Street Grove City State MN 56243
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed No additional CFS *CFS or **GPM 99.80 ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (***Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply Run-off from adjacent watershed and existing well (see attached description)
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Day
W1/2 of Section 35, Township 121N Range 54 West. See attached engineering plans.
Water Impounded: 5 1/2, 5 1/2 NE 1/4 Sec 35 - T121N - R54W
- County or counties where water will be used Day
- Annual period during which water is to be used Year round (January 1-December 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 attached supplemental sheet.

STATE OF MINNESOTA

County of Meeker

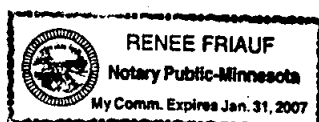
SS

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, HAROLD MINNICK JR., 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 Harold Minnick Jr.

Subscribed and sworn to before me this 6th day of March 20 06



Renee Friauf
Notary Public signature

SOUTH DAKOTA
WATER PERMIT NO. 6707-3

Date of first receipt of application March 24, 2006.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6707-3 to Prairie Coteau Restoration c/o Harold Minnick, 51437 335th St, Grove City MN 56243 authorizing the construction of the control structure and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 6707-3 authorizes impoundment of an additional 99.8 acre-feet of water. Water Right No. 4191-3 currently appropriates 1.11 cubic feet of water per second from one well located in the NE ¼ SW ¼ Section 35 to maintain a 100 acre-feet impoundment (ring dike) located in the SE ¼ NW ¼ and NE ¼ SW ¼ Section 35; all in T121N-R54W. This permit authorizes impoundment of an additional 99.8 acre-feet of water in a wetland area from runoff and the existing well. A overflow pipe will be installed into the ring dike to act as an outlet and to facilitate the movement of water from the ring dike into the adjacent wetland area located in portions of the S ½, S ½ NE ¼ Section 35-T121N-R54W. A control structure for the wetland will be located in the same area described above for the ring dike. No additional diversion rate from the well or increase in storage in the existing ring dike impoundment is authorized by this permit.
2. The water appropriated shall be used for the purpose of livestock watering and fish and wildlife propagation 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. 6707-3 is May 4, 2006.
5. The date from which applicant may claim right is March 24, 2006.
6. One-fifth of the construction is to be completed on or before November 4, 2008.
7. All construction is to be completed on or before May 4, 2011.
8. Water is to be put to beneficial use on or before May 4, 2015.
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. 6707-3 authorizes a water control structure to restore a wetland with a storage capacity of 99.8 acre feet of water and sufficient water annually to maintain the water level to the outlet elevation.
2. Water Permit No. 6707-3 amends Water Right No. 4191-3 to include fish and wildlife propagation as an authorized use.

WATER MANAGEMENT BOARD

By: Garland Erbele

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

JUN 12 2006

date



(type or print in ink)

1. Well Information - Proposed Construction See permit 4191-3

- 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

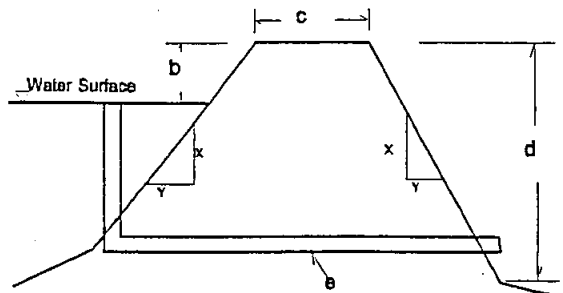
- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

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:

U.S. Department of Agriculture
NRCS--Field Support Office-520 3rd Ave. North.
Brookings, SD 57006



- b) Freeboard _____ 1 foot
- c) Crest Width _____ 16 feet
Crest Length _____ 55 feet
- d) Height _____ 5 feet
- e) Primary Outlet Capacity _____ 3.8 cfs
If pipe, diameter _____ 10 inch
- f) Secondary Spillway Capacity _____ 9.8 cfs
Spillway Width _____ 20 feet
- g) X & Y Slope _____ 3:1
Upstream _____ 3:1
Downstream _____ 3:1
- h) Surface Area of Impoundment _____ 83.8 acre
- i) Storage _____ 99.8 Acre Feet
- j) Drainage Area Above Dam _____ 747.0 Acres

Description of Water Permit Application filed by Prairie Coteau Restoration LLC
March, 2006

Prairie Coteau Restoration LLC currently holds Water Right No. 4191-3 which appropriates 1.11 cfs to divert into a 100 acre foot ring dike impoundment area for livestock watering in Day County. It is our intent to develop this land for fish and wildlife habitat in addition to the current livestock watering use. Livestock grazing will continue to occur as part of our management of the property.

Specifically this application serves the following two functions:

- 1) Restore a shallow 83.8 acre slough
- 2) Amend Water Right No. 4191-3 to include fish and wildlife habitat via:
 - Allowing year round diversion of the well to the existing ring dike impoundment
 - Allowing overflow from the ring dike to flow into the adjacent 83.8 acre slough

This application requests no additional diversion rate from the well or increase in storage in the existing ring dike impoundment.

The well construction and ring dike impoundment information exists in the administrative files for Water Right No. 3314-3, 3834-3 and 4191-3.

It is our intention to replace the existing 10 hp electric pump which has been used in the past to pump from the well into the ring dike impoundment with a portable wind generated pump and/or a gas powered pump.

It is our intention to install a small overflow pipe into the existing ring dike to act as an outlet and to facilitate the movement of water from the ring dike into the adjacent slough area in the S ½ and S ½ NE ¼ of Section 35, T121N, R54W. Permit 4191-3 currently allows 100 AF to be annually stored in the ring dike. Our intention, depending livestock needs, wetland conditions and precipitation amounts is to store between 15 ac-ft to 100 ac-ft annually in the ring dike with any overflow passing directly into the adjacent slough area.

A ditch plug (with culvert and water control structure) for an adjacent 83.8 acre slough is located in the SE ¼ NW ¼ Section 35, T121N, R54W (see attached engineering plans). The median depth in the slough created by the culvert/water control structure is approximately 18".

As the applicant, we understand that we have a 5 year period to construct the works authorized by the permit, if approved. At such time, the water license will be issued for the amount developed under this project.

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date March 24, 20 06

RECEIVED OF Prairie Coteau Restoration LLC, Box 277, Cosmos MN 56228

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

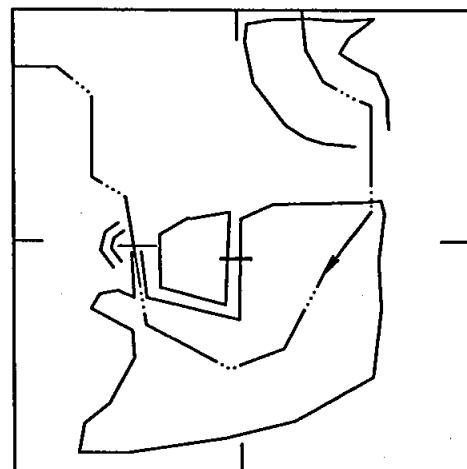
Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	15	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____	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.

02377

By

David E. Eide
Chief Engineer



SEC. 35 T121 R54
LOCATION MAP

PRAIRIE COTEAU RESTORATION

RECEIVED
MAR 24 2006
WATER RIGHTS
PROGRAM

PROPERTY LINE

SMALL BASIN

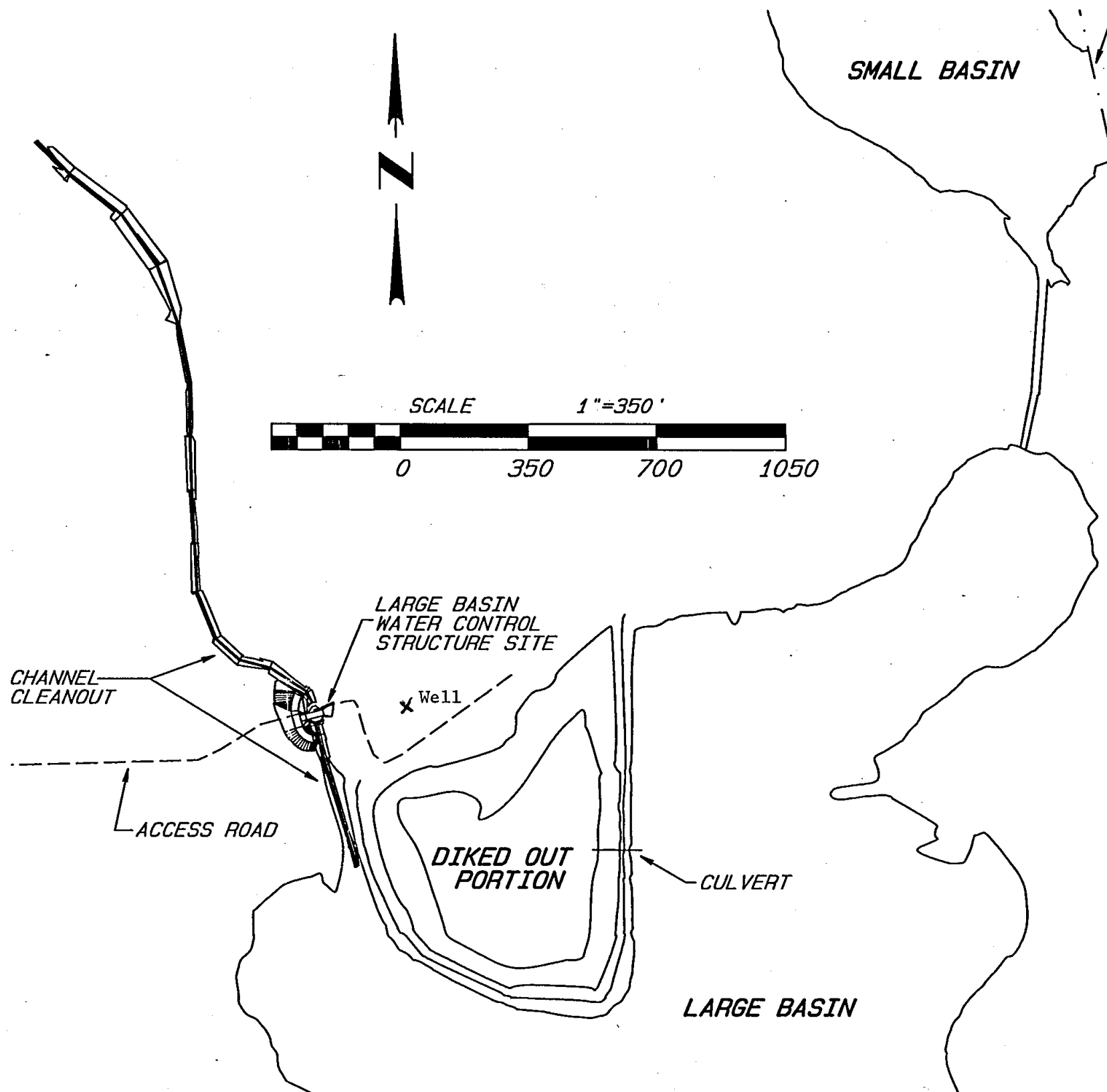


CONSTRUCTION AND DESIGN NOTES

1. SPOIL PILES SHALL HAVE 3:1 SIDESLOPES AND SHALL BE NO MORE THAN 1' IN HEIGHT. ALL SPOIL PILES SHALL BE SEEDED. ALL SPOIL SHALL BE PLACED 15' FROM EXCAVATED AREAS AND OUTSIDE THE WETLAND BOUNDARIES IN LOCATIONS APPROVED BY THE LANDOWNER AND NRCS.
2. FILL FOR WATER CONTROL STRUCTURE SHALL BE TAKEN FROM THE EMERGENCY SPILLWAY.

INDEX OF DRAWINGS

1. SITE PLAN
PLAN VIEW
CONSTRUCTION AND DESIGN NOTES
2. LARGE BASIN WATER CONTROL STRUCTURE
3. JOB PLAN 1.2B--EARTH DAM
4. CROSS SECTIONS & PROFILES
5. PROFILE OF PRINCIPAL SPILLWAY
6. JOB PLAN 6.2--HOOD INLET AND BAFFLE
7. DETAILS OF TRASH RACK FOR INLET SIDE
8. JOB PLAN 4.2--PIPE SUPPORT FOR OUTLET PIPE
9. ROCK RIPRAP OUTLET STRUCTURE
10. DIKE CULVERT
11. PROFILE OF DIKE CULVERT
12. JOB PLAN 4.2--PIPE SUPPORT FOR OUTLET PIPE
13. ROCK RIPRAP OUTLET STRUCTURE
14. LARGE BASIN CHANNEL
15. PROFILE OF LARGE BASIN CHANNEL
16. TYPICAL CROSS SECTIONS



NRCS NATURAL RESOURCES
CONSERVATION SERVICE

BROOKINGS FIELD SUPPORT OFFICE
520 THIRD AVENUE P.O. BOX 626
BROOKINGS, SOUTH DAKOTA 57006-0626

PRAIRIE COTEAU RESTORATION

Section 35 T.121N. R.54W.
Day County, South Dakota

Drawing No.
DAY WRP PAGE1

Sheet No. 1 of 13

Approved by: *[Signature]*
Title: *AE*
Date: 8-05
Designed by: Laura Stern
Drawn by: Laura Stern
Checked by: *M. Burke*
Date: 9-05

STRUCTURE DATA

DRAINAGE AREA ACRES	ANNUAL YIELD @ 80% AC.FT.	PEAK RUNOFF 25 YR. CFS.	EMERG. SPWY. 50 YR. CFS.	WATER DEPTH @ P.S. FT.	SURFACE AREA @ P.S. ACRES	SEDIMENT STORAGE AC.FT.	STORAGE		
							@ P.S. AC.FT.	@ E.S. AC.FT.	@ TOP OF DAM AC.FT.
747	2.7	219	297	1.5'	83.8	3.2	99.8	189.4	397.3

CONSTRUCTION & DESIGN NOTES

1. S.D. LAW STATES: "NO EXCAVATOR MAY BEGIN ANY EXCAVATION WITHOUT FIRST NOTIFYING THE ONE-CALL NOTIFICATION CENTER AT THE NUMBER 1-800-781-7474."

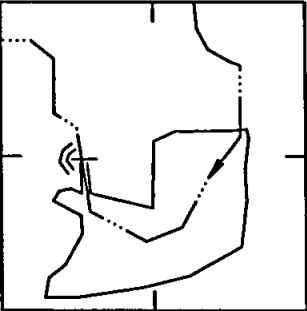
2. LANDOWNER IS RESPONSIBLE FOR COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND MAINTAINING THIS DAM IN ACCORDANCE WITH S.D. OPERATION & MAINTENANCE GUIDELINES.

3. THIS IS A CLASS A HAZARD STRUCTURE AS DEFINED BY NRCS.

4. THIS PROJECT IS NOT CLASSIFIED AS A "DAM" BY S.D. LAW. ACCORDING TO S.D. LAW, A STRUCTURE IS CLASSIFIED AS A DAM IF IT IS > THAN 25 FT HIGH (TOP TO D.S. TOE) AND IMPOUNDS > THAN 15 AC FT OR IF IT IS > THAN 6 FT HIGH AND IMPOUNDS > THAN 50 AC FT.
5. IF CULTURAL RESOURCES ARE DISCOVERED, DISCONTINUE CONSTRUCTION AND NOTIFY THE LOCAL NRCS OFFICE.

6. SEED ABOVE HWL, THE TOP AND BACKSLOPE OF DAM, THE E.S., ALL DIKES, AND ALL DISTURBED AREAS DESIGNATED BY THE ENGINEER. SEEDING SHALL BE PERFORMED BY THE OWNER.

7. THE CORE TRENCH SHALL BE INSPECTED AND APPROVED BY AUTHORIZED PERSONNEL PRIOR TO BACKFILL. EXCAVATE CORE TRENCH 1 FT INTO IMPERMEABLE MATERIAL. MINIMUM CORE TRENCH IN UNDISTURBED GROUND IS 2 FT. AFTER STRIPPING, CONSTRUCT THE FULL DEPTH OF THE CORE TRENCH TO P.S. ELEVATION (SEE PROFILE OF EMBANKMENT).

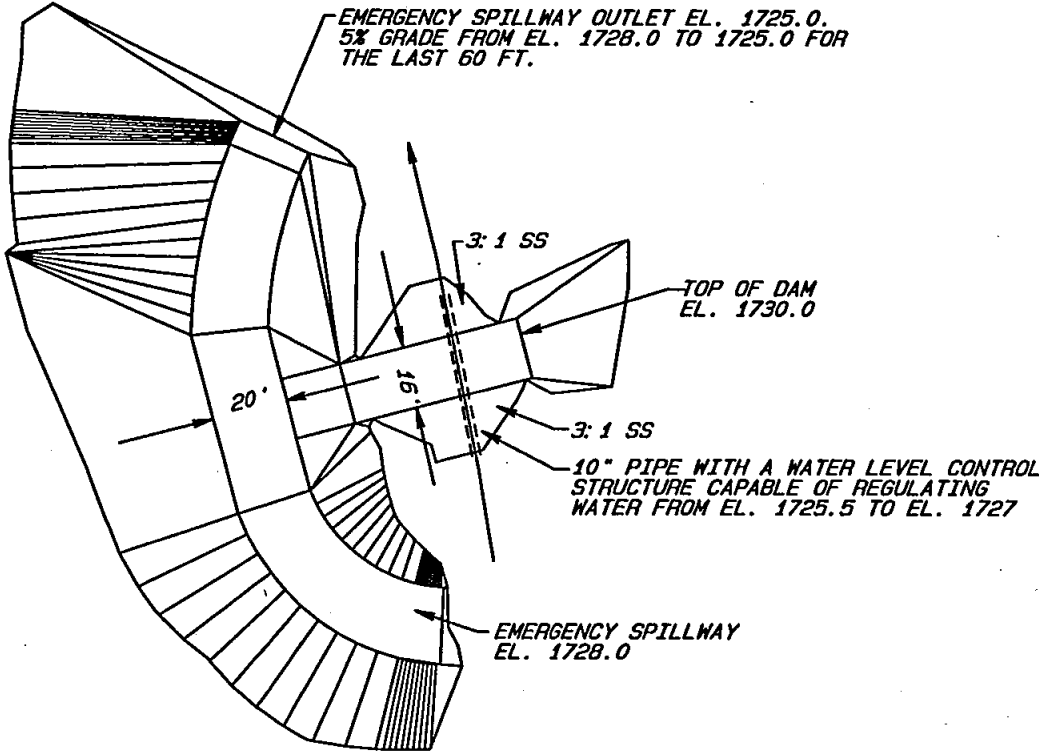


SW4 SEC.35 T121 R54
LOCATION MAP

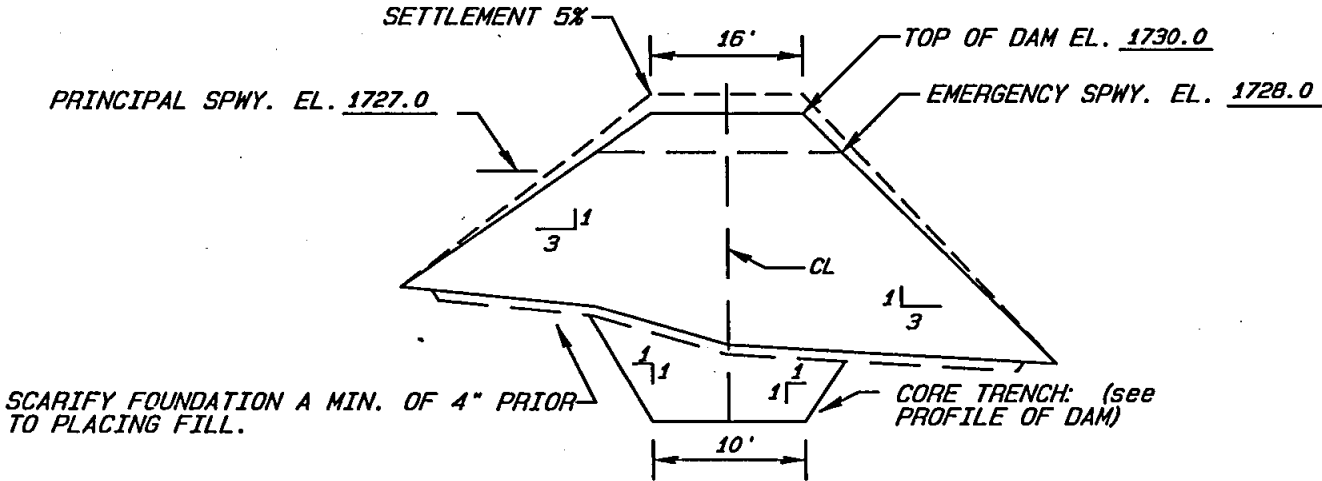
TABLE OF QUANTITIES

ITEM	UNIT	QUANT.	AS BUILT
EXCAVATION			
CORE TRENCH	CU. YD.	40	
EXISTING ROAD	CU. YD.	352	
EMERGENCY SPILLWAY	CU. YD.	1508	
EARTH FILL (EMBANKMENT)	CU. YD.	133	
SEEDING	AC	1.0	
PRINCIPAL SPILLWAY	EACH	1	
SEE SHEET #4 FOR DETAILS			

NOTE: ABOVE QUANTITIES MAY BE ESTIMATED



PLAN VIEW OF DAM & POOL AREA
APPROXIMATE SCALE 1" = 50'



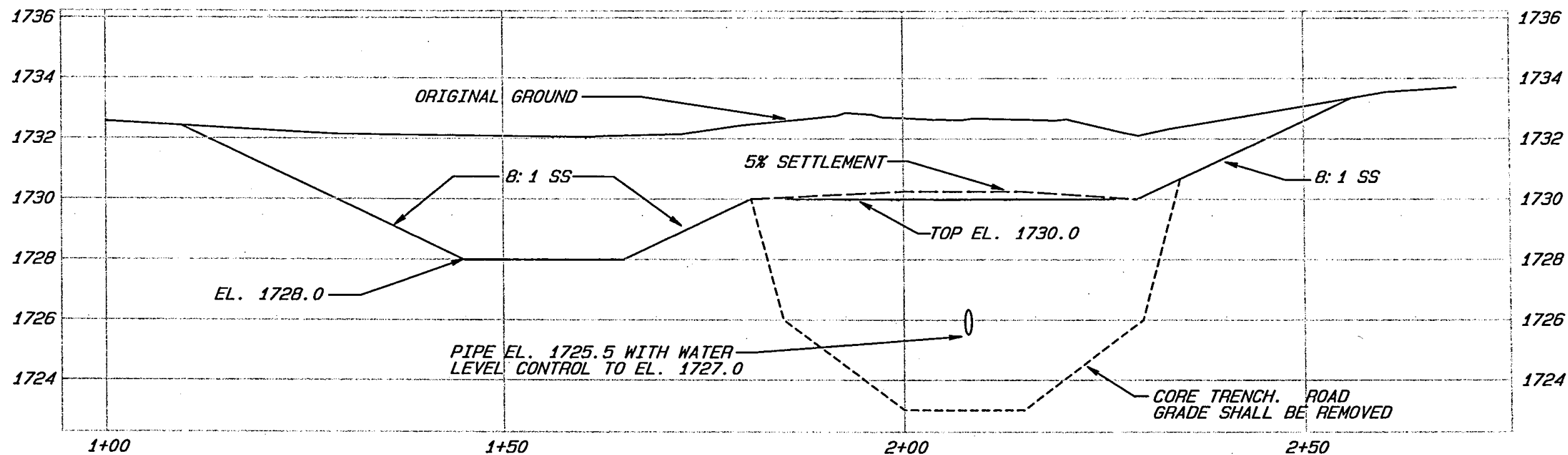
TYPICAL CROSS SECTION OF DAM

S.D. CONSTR. & MATERIAL SPECS.

- SD - 4 STRIPPING
- SD - 5 EXCAVATION
- SD - 7S EARTH FILL CLASS "S"
- SD - 10 SALVAGING & SPREADING TOPSOIL
- SD - 16 TIMBER FAB. & INSTALLATION
- SD - 17 METAL FABRICATION & INSTALLATION
- SD - 20B CPE PIPE
- SD - 28 SEEDING

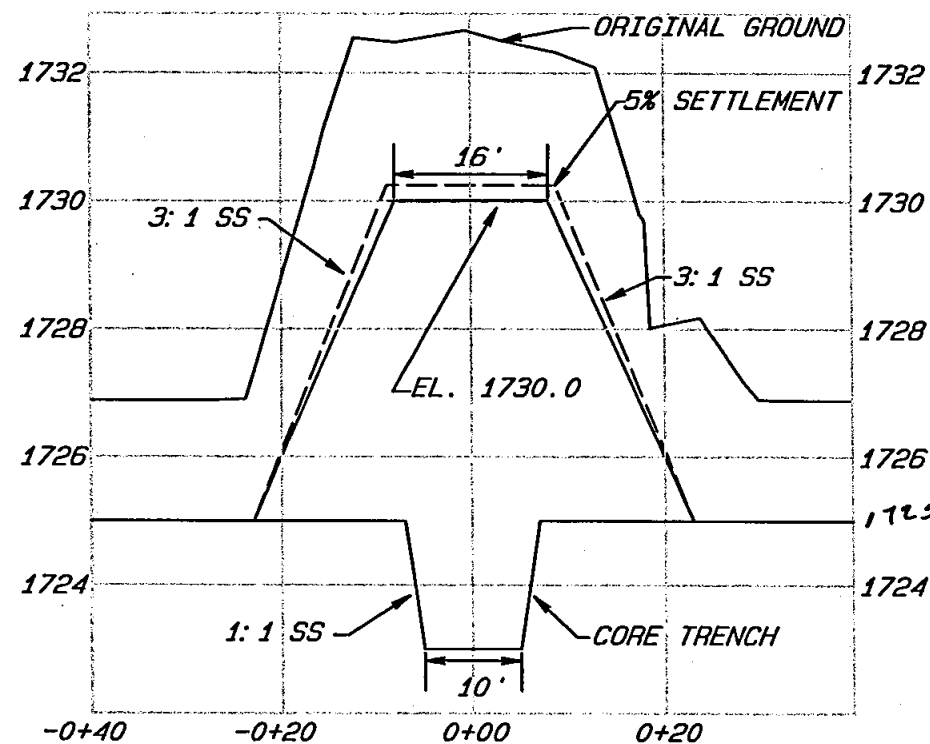
EARTH DAM

PRAIRIE COTEAU RESTORATION			
LARGE BASIN			
NE4, SW4, S.35, T.121, R.54			
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE			
Designed	STERN	Date	8-05
Drawn	STERN	Date	8-05
Checked	W. Burke	Date	9-05
Approved by:	Michelle Rube		
Title:	AE		
Sheet	2	of	13
File Name:	DAY WRP EARTH DAM		



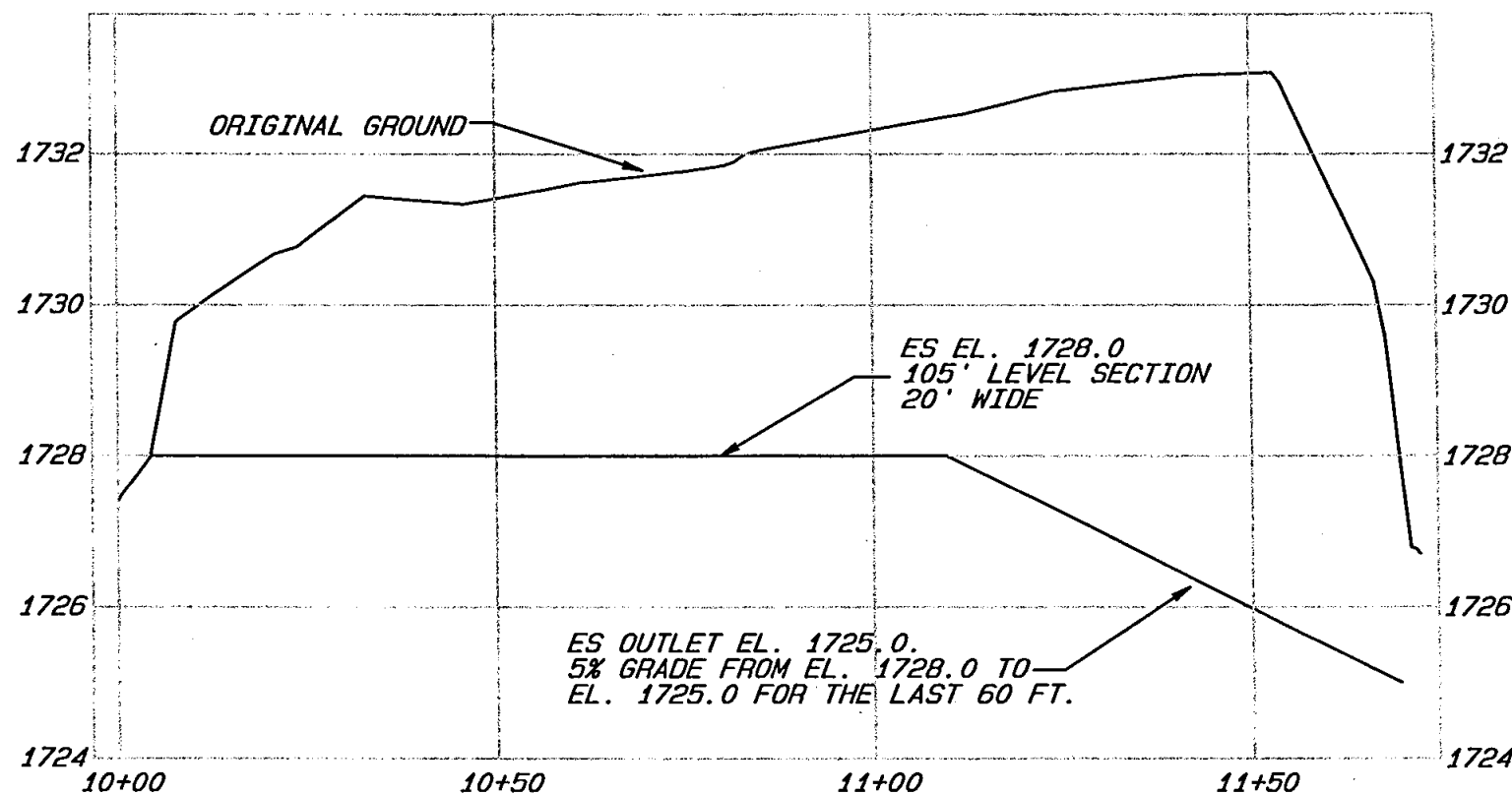
CROSS SECTION AT CREST OF EMERGENCY SPILLWAY AND PROFILE ALONG CL OF DAM

SCALE: HORIZ. 1" = 15', VERT. 1" = 4'



MAXIMUM CROSS SECTION OF DAM

SCALE: HORIZ. 1" = 20', VERT. 1" = 3'



PROFILE ALONG CL OF EMERGENCY SPILLWAY

SCALE: HORIZ. 1" = 25', VERT. 1" = 2.5'

Approved by: *Michael J. Pyle*
 Title: *AT*

Date: *B-05*
 Designed by: *Laura Stern*
 Drawn by: *Laura Stern*
 Checked by: *M. Burke 7-05*

NRCS NATURAL RESOURCES
 CONSERVATION SERVICE

BROOKINGS FIELD SUPPORT OFFICE
 520 THIRD AVENUE P.O. BOX 626
 BROOKINGS, SOUTH DAKOTA 57006-0626

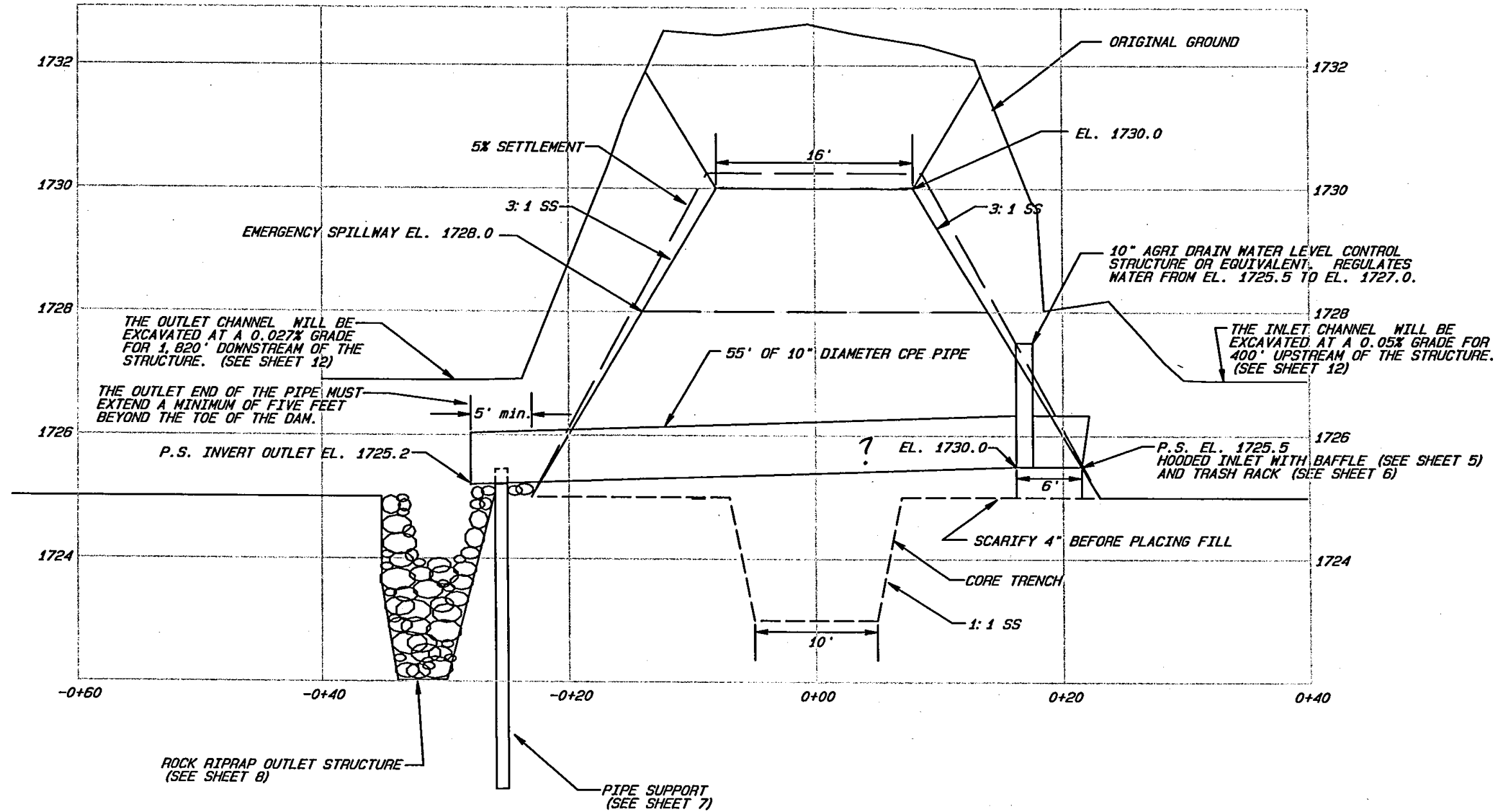
PRAIRIE COTEAU RESTORATION
 LARGE BASIN

SW1/4 Section 35 T.121N. R.54W.
 Day County, South Dakota

Drawing No.
 DAY WP Big Basin
 Sheet No. 3 of 13

PROFILE OF PRINCIPAL SPILLWAY

SCALE: HORIZ. 1"=10'; VERT 1" = 2'



Approved by: *[Signature]*
 Title: *AE*

Date: 8-05
 Designed by: Laura Stern
 Drawn by: Laura Stern
 Checked by: *[Signature]*

NRCS NATURAL RESOURCES CONSERVATION SERVICE
 BROOKINGS FIELD SUPPORT OFFICE
 520 THIRD AVENUE P.O. BOX 626
 BROOKINGS, SOUTH DAKOTA 57006-0626

PRAIRIE COTEAU RESTORATION LARGE BASIN
 SW1/4 Section 35 T.121N. R.54W.
 Day County, South Dakota

Drawing No. DAY WFP Big Basin
 Sheet No. 4 of 13

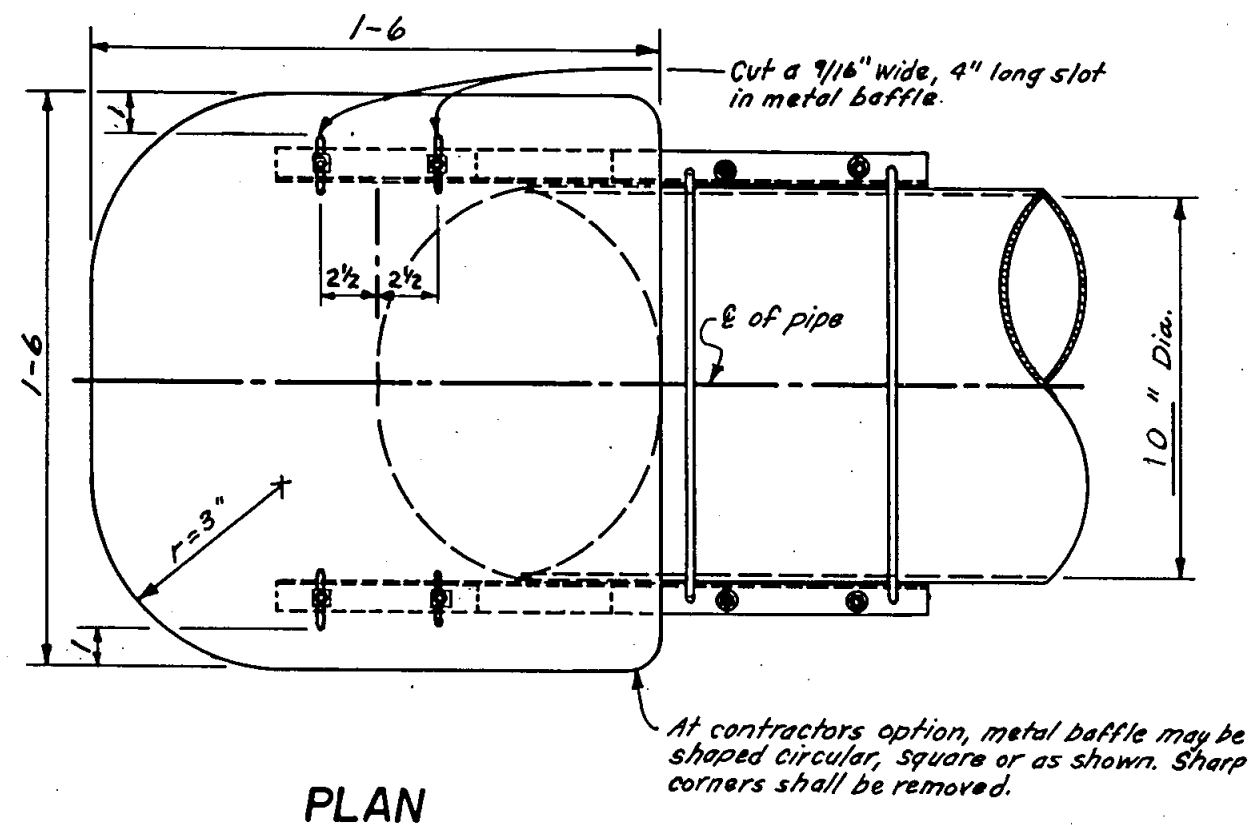
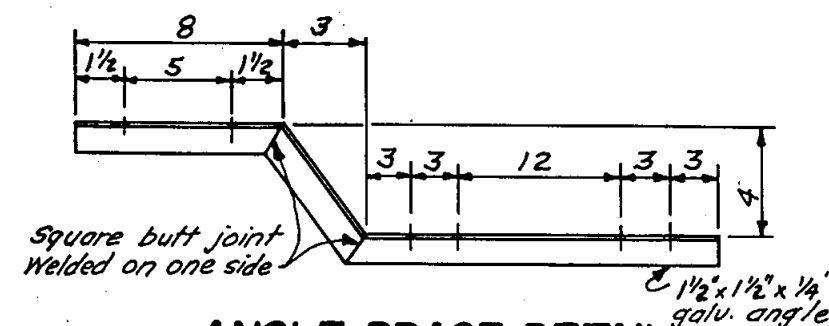


TABLE OF QUANTITIES

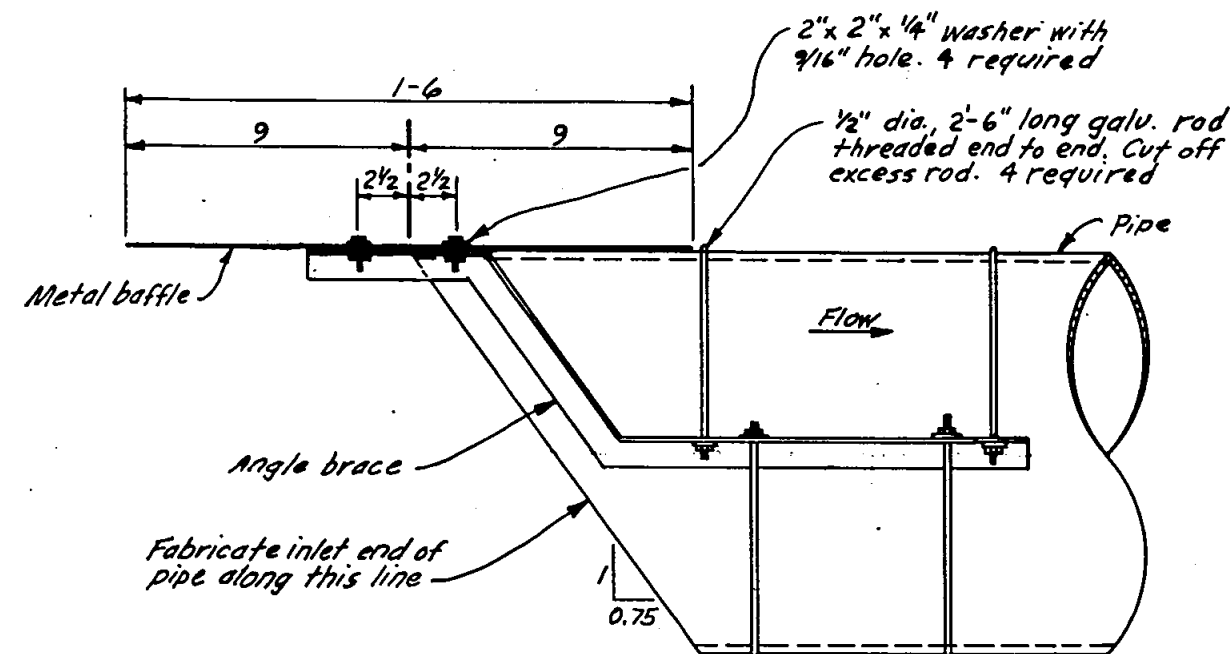
ITEM	UNIT	QUANTITY
STEEL BAFFLE, 1/4" THICK (GALV.)	SQ. FT.	2
1/2" DIA. GALV. ROD	EACH	4
1 1/2" x 1 1/2" x 1/4" GALV. ANGLE	LBS.	14
1/2" DIA. x 1 1/2" LONG GALV. BOLT	EACH	4



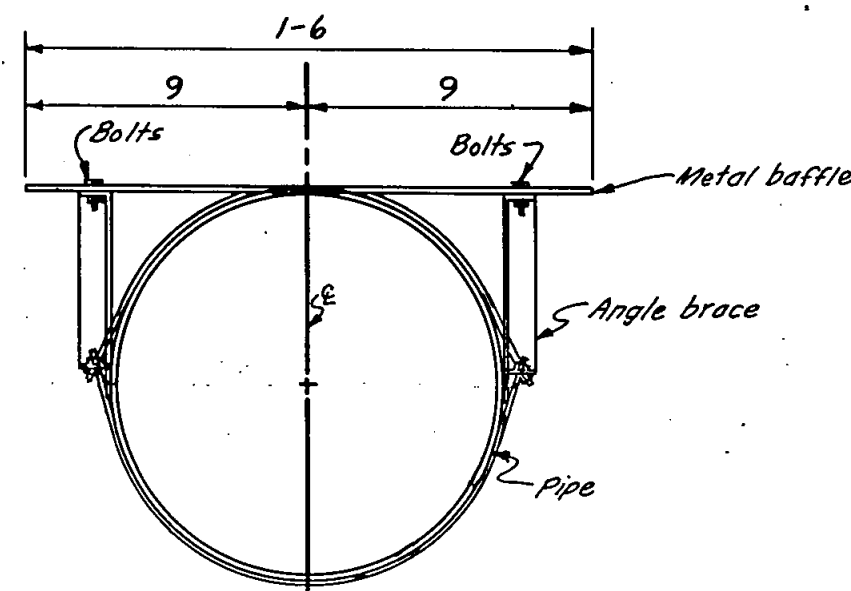
ANGLE BRACE DETAIL
(1 left and 1 right required)

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.



SIDE ELEVATION



FRONT ELEVATION

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

OPERATOR PRAIRIE COTEAU RESTORATION

CONSERVATION DISTRICT: DAY

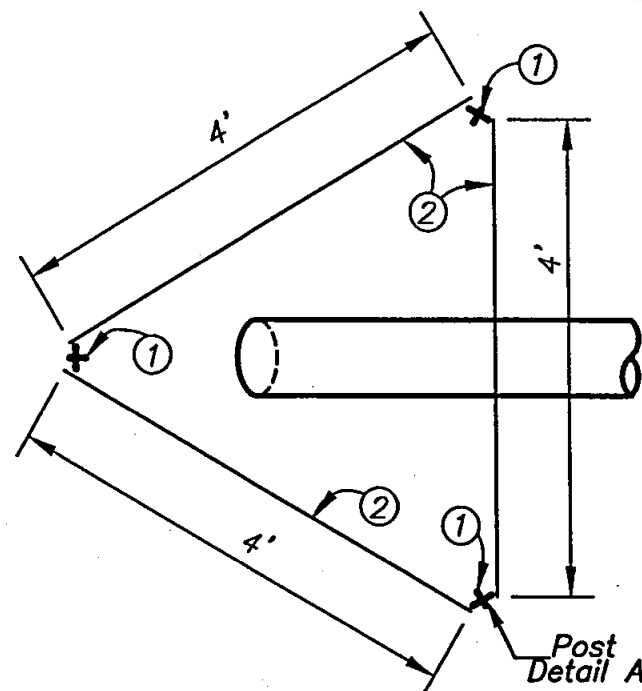
**U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE**

Designed STERN Date 8-05 Approved by N. Ryke

Drawn AC Title 9/05

Traced N. Ryke Sheet 5 Drawing No. 905

Checked N. Ryke of 13

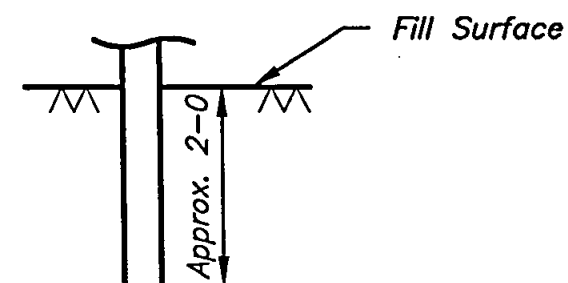


PLAN

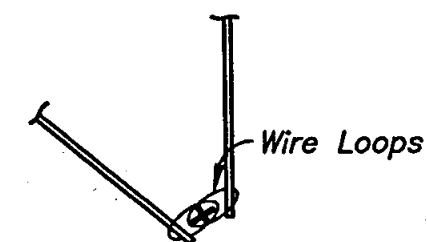
BILL OF MATERIALS			
MARK	QUAN	DESCRIPTION	LENGTH
1	3	Metal T-Post	min 5'
2	4	Panels - Min. 34" high	4-0
3	---	Wire Loops (as needed)	

NOTES:

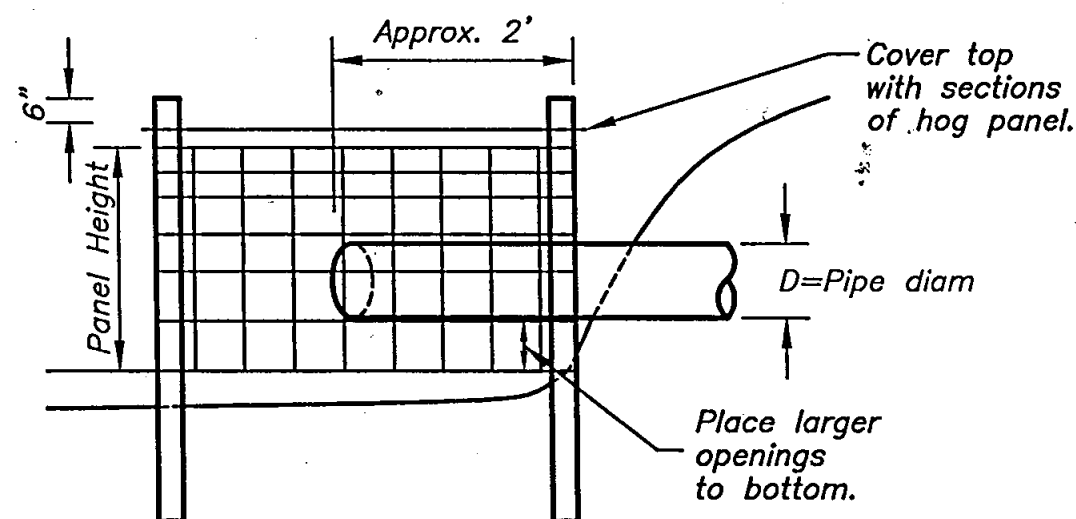
1. Minimum height of hog panel to be 34" or 52" for cattle panel. The minimum length of Mark 1 posts to be 5 feet for hog panel and 6 1/2 feet for cattle panel.
2. The feedlot panels shall be fastened to each post with 2 strands per loop of 10 gage insulated copper wire securely twisted. Insulation can be THHN or THWN. Spacing of wire loops shall not exceed 2 feet with minimum 2 loops per post.
3. Panels shall be 1/4" galvanized steel rods welded together to form a panel. Maximum spacing of rods shall be 6 inches vertical and 8 inches horizontal.
4. Panels placed across top shall be securely fastened together as shown in Note 2. Trim panels to fit.
5. This detail shall only be used on low head, low velocity wetland pipes.



POST ANCHORAGE



STANDARD
DETAIL A



SIDE ELEVATION

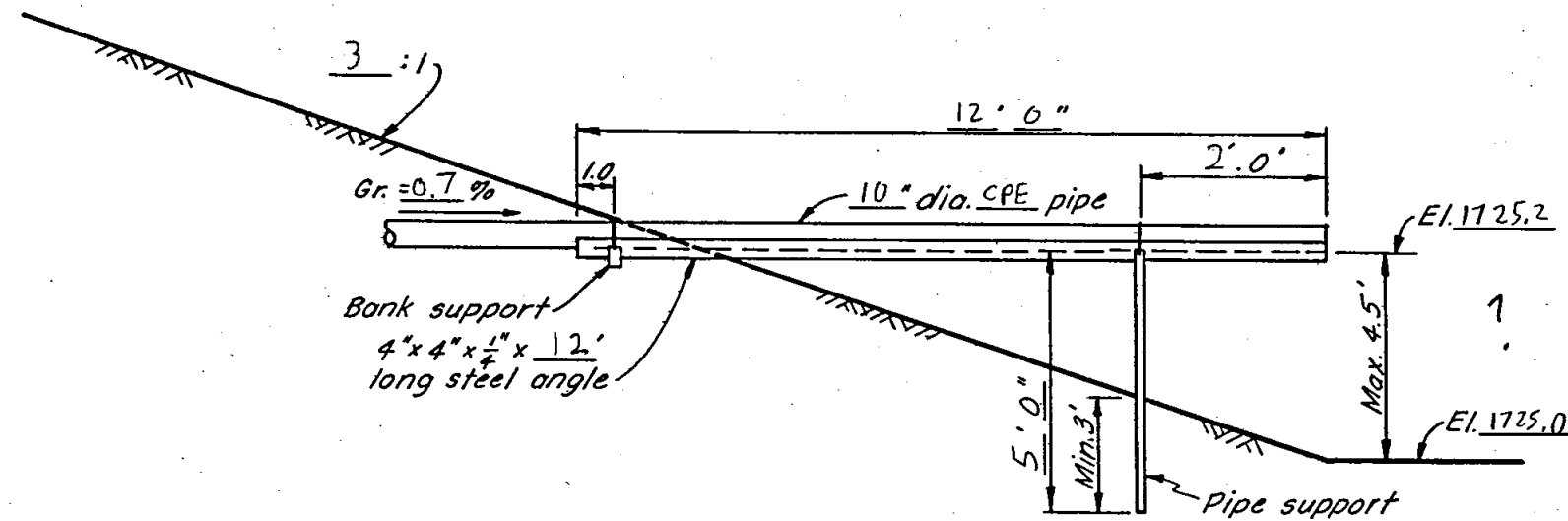
DETAILS OF TRASH RACK FOR
INLET SIDE OF WETLAND WATER CONTROL
STRUCTURES WITH UP TO 15" PIPE

U.S. DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE

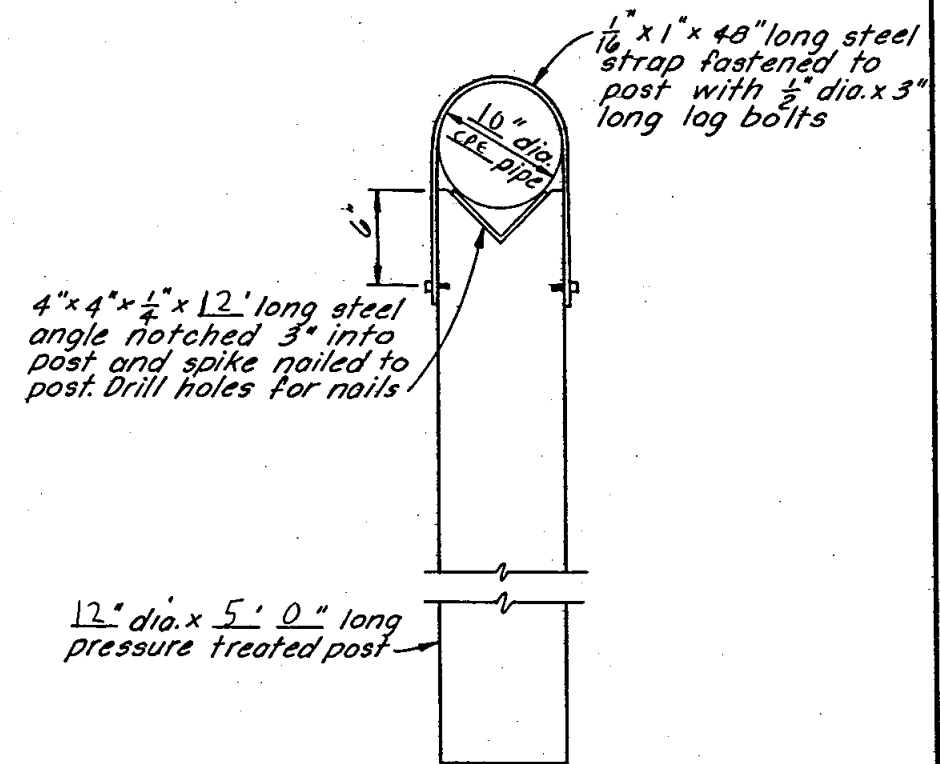
Designed <u>STERN</u>	Date <u>8/05</u>	Approved by <u>Michael Burke</u>	Date <u>9/05</u>
Drawn _____		Title <u>AE</u>	
Traced _____		Title _____	
Checked <u>M. Burke</u>	Date <u>9-05</u>	Sheet No. <u>6</u> of <u>13</u>	Drawing No. <u>29-L-201H</u>

4/04

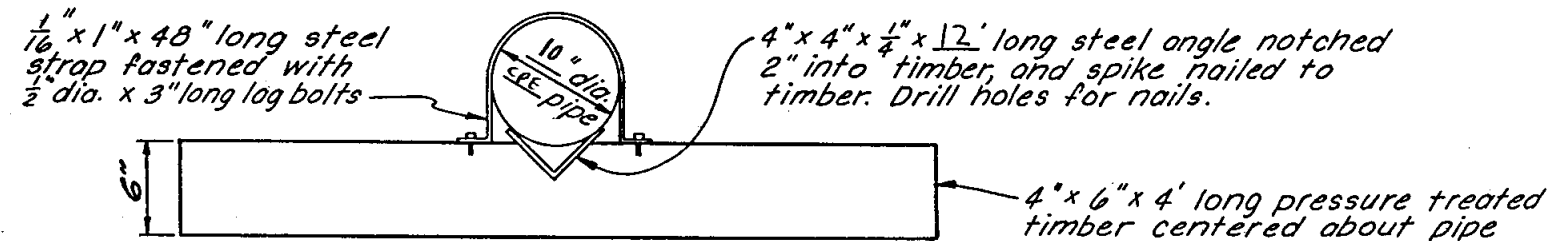
LARGE BASIN



PROFILE ALONG & OF OUTLET END OF PIPE



ELEVATION OF POST PIPE SUPPORT



ELEVATION OF BANK PIPE SUPPORT

TABLE OF QUANTITIES

ITEM	UNIT	QUANTITY
4" X 6" X 4' LONG PRESSURE TREATED TIMBER	EACH	1
12" DIA. X 5' LONG PRESSURE TREATED POST	EACH	1
4" X 4" X 1/4" STEEL ANGLE (12')(6.6 LB./FT.)	LB.	79.2
1/16" X 1" X 48" LONG STEEL STRAP	EACH	2
1/2" DIA. X 3" LONG, LAG BOLTS	EACH	4

NOTE: JOB PLAN LIMITED TO MAXIMUM 8" DIA. PIPE AND 20' LONG STEEL ANGLE

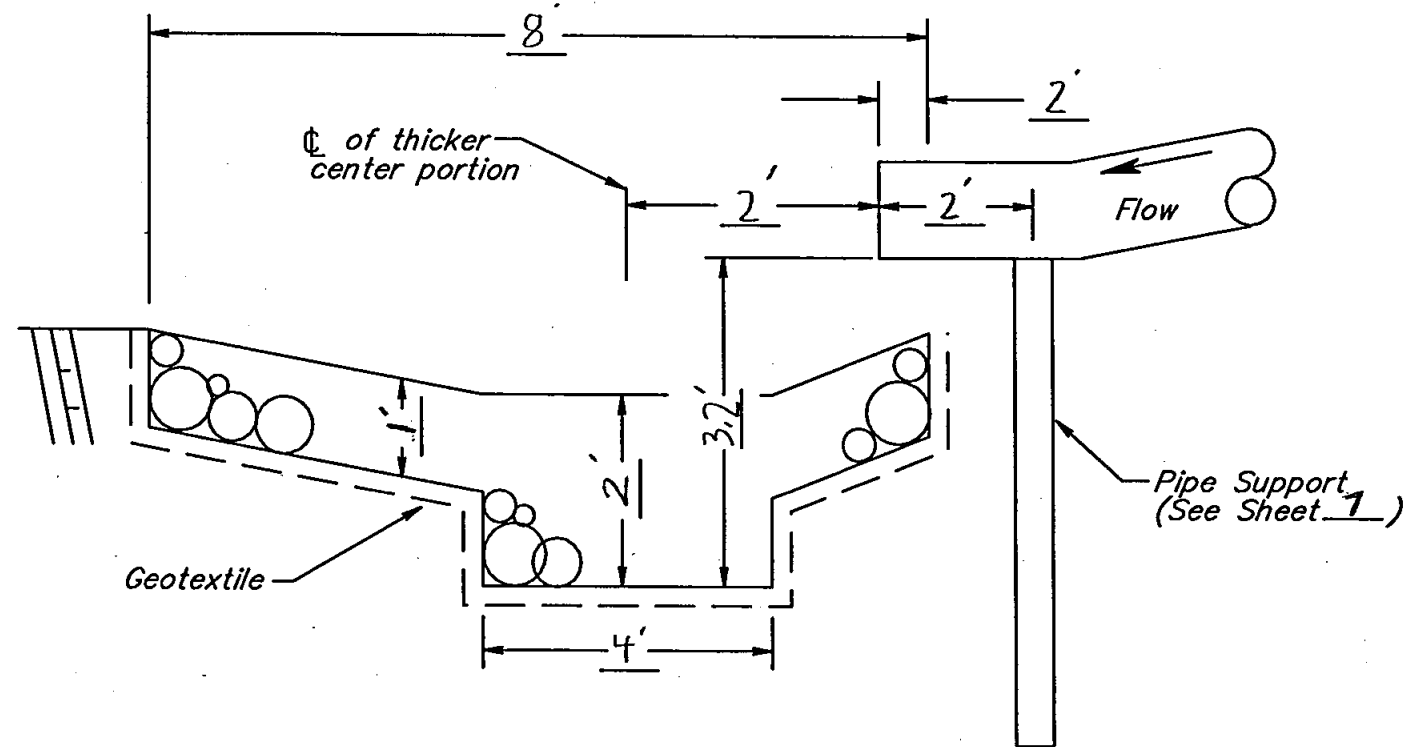
PIPE SUPPORT FOR OUTLET PIPE

OPERATOR: PRAIRIE COLEAU RESTORATION	
CONSERVATION DISTRICT: OAY	
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	
Designed: STERN	Date: 8-05
Drawn:	Approved by: M. Ryke AE 9/05
Traced:	Title:
Checked: M. Ryke	Sheet: 7 of 13
	Drawing No.

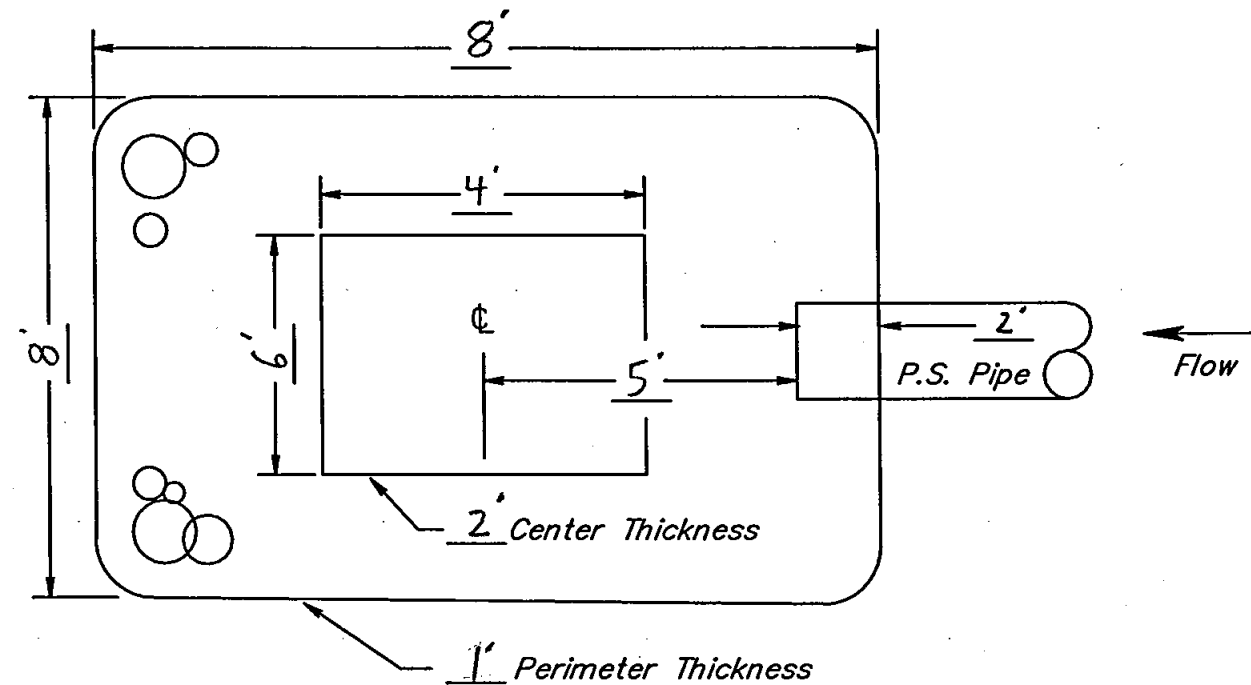
JOB PLAN NO. 4.2

5, N-29, 073.4 - 20

LARGE BASIN



Profile of Rock Riprap Outlet Structure
No Scale



Plan View of Rock Riprap Outlet Structure
No Scale

Rock Riprap Outlet Notes:

1. Place 8 oz. geotextile beneath rock. Use 12' long pins at 2' on center at seams and 4' on center elsewhere.
2. Top of perimeter rock shall be flush with ground.
3. Use well graded rock. Use mostly large rock greater than 100 lbs. Use a limited amount of rock less than 6" diameter. Field stone is acceptable when clean and free of debris.

Outlet Structure Quantities

1. Rock Riprap	<u>4</u> CU YD
2. Geotextile	<u>16</u> SQ YD

ROCK OUTLET

REVISIONS		
DATE	APPROVED	TITLE

Date 9/05
Designed STERN
Drawn M. Durke
Checked W. J. J. J.
Approved W. J. J. J.

PRODUCER PRAIRIE COTEAU RES.
SW 4 SECTION 35 T. 121 R. 54
DAY COUNTY
DAY CONSERVATION DISTRICT

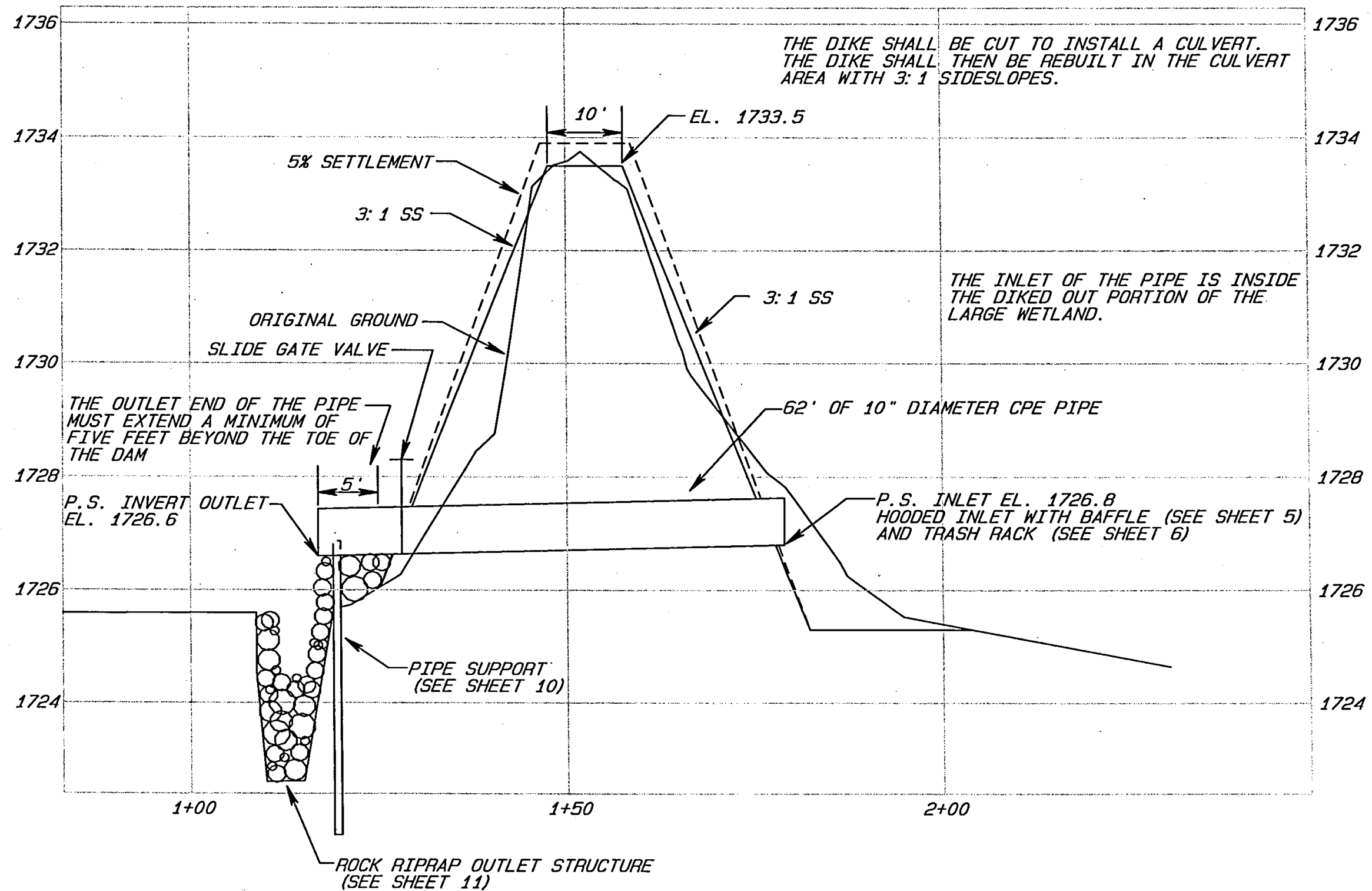
USDA - NRCS
State Office Engineering Staff
200 Fourth Street SW
Huron, South Dakota 57350

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

File Name: RockOutlet.dwg
Drawing No.
9/19/2005 1:22PM
Sheet 8 of 13

PROFILE OF DIKE CULVERT

SCALE: HORIZ. 1"=15'; VERT. 1"=2'



Approved by: *Michelle Buehler*
Title: *PE*
Date: *8-05*

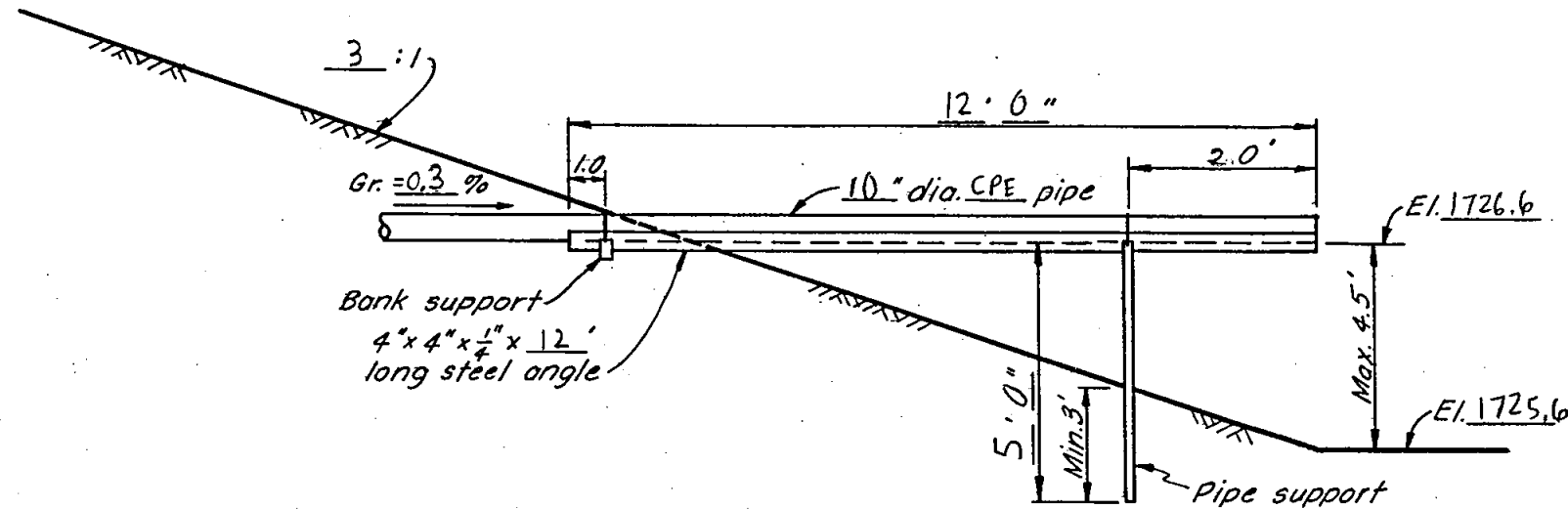
Designed by: *Laura Stern*
Drawn by: *Laura Stern*
Checked by: *M. Buehler*
Date: *8-05*

**NRCS NATURAL RESOURCES
CONSERVATION SERVICE**
BROOKINGS FIELD SUPPORT OFFICE
520 THIRD AVENUE P.O. BOX 626
BROOKINGS, SOUTH DAKOTA 57006-0626

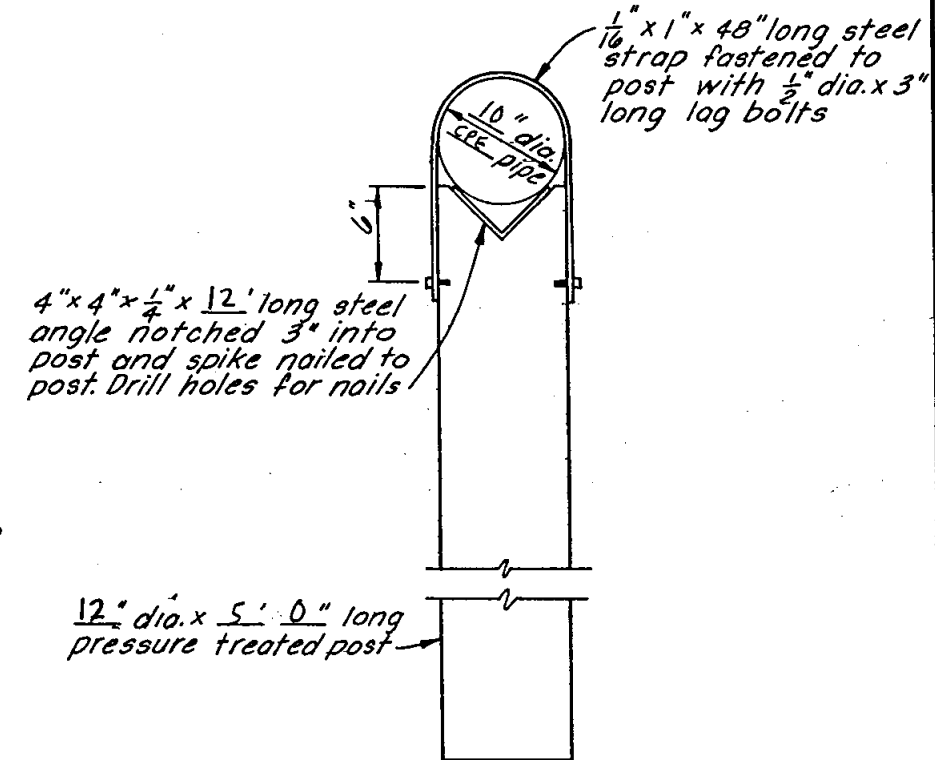
**PRAIRIE COTEAU RESTORATION
DIKE WATER CONTROL STRUCTURE**
SW1/4 Section 35 T.121N. R.54W.
Day County, South Dakota

Drawing No.
DAY W-10 Dike
Sheet No. 9 of 13

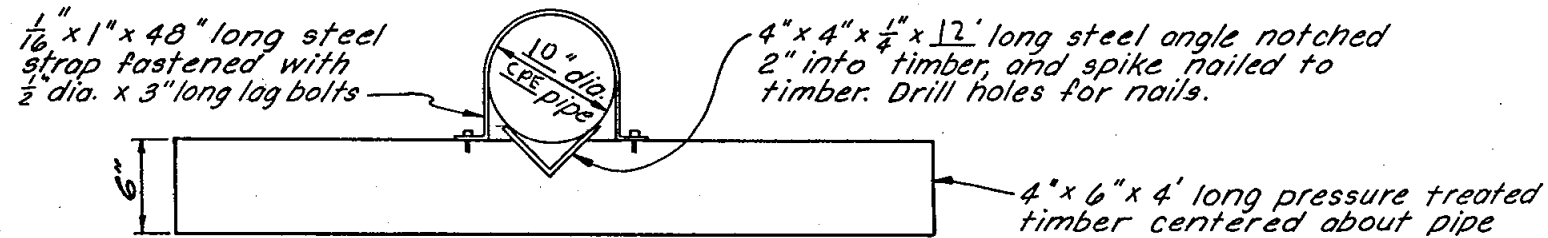
DIKE AREA



PROFILE ALONG & OF OUTLET END OF PIPE



ELEVATION OF POST PIPE SUPPORT



ELEVATION OF BANK PIPE SUPPORT

TABLE OF QUANTITIES

ITEM	UNIT	QUANTITY
4" X 6" X 4' LONG PRESSURE TREATED TIMBER	EACH	1
12" DIA. X 5' LONG PRESSURE TREATED POST	EACH	1
4" X 4" X 1/4" STEEL ANGLE (12')(6.6 LB./FT.)	LB.	79.2
1/16" X 1" X 48" LONG STEEL STRAP	EACH	2
1/2" DIA. X 3" LONG, LAG BOLTS	EACH	4

NOTE: JOB PLAN LIMITED TO MAXIMUM 8" DIA. PIPE AND 20' LONG STEEL ANGLE

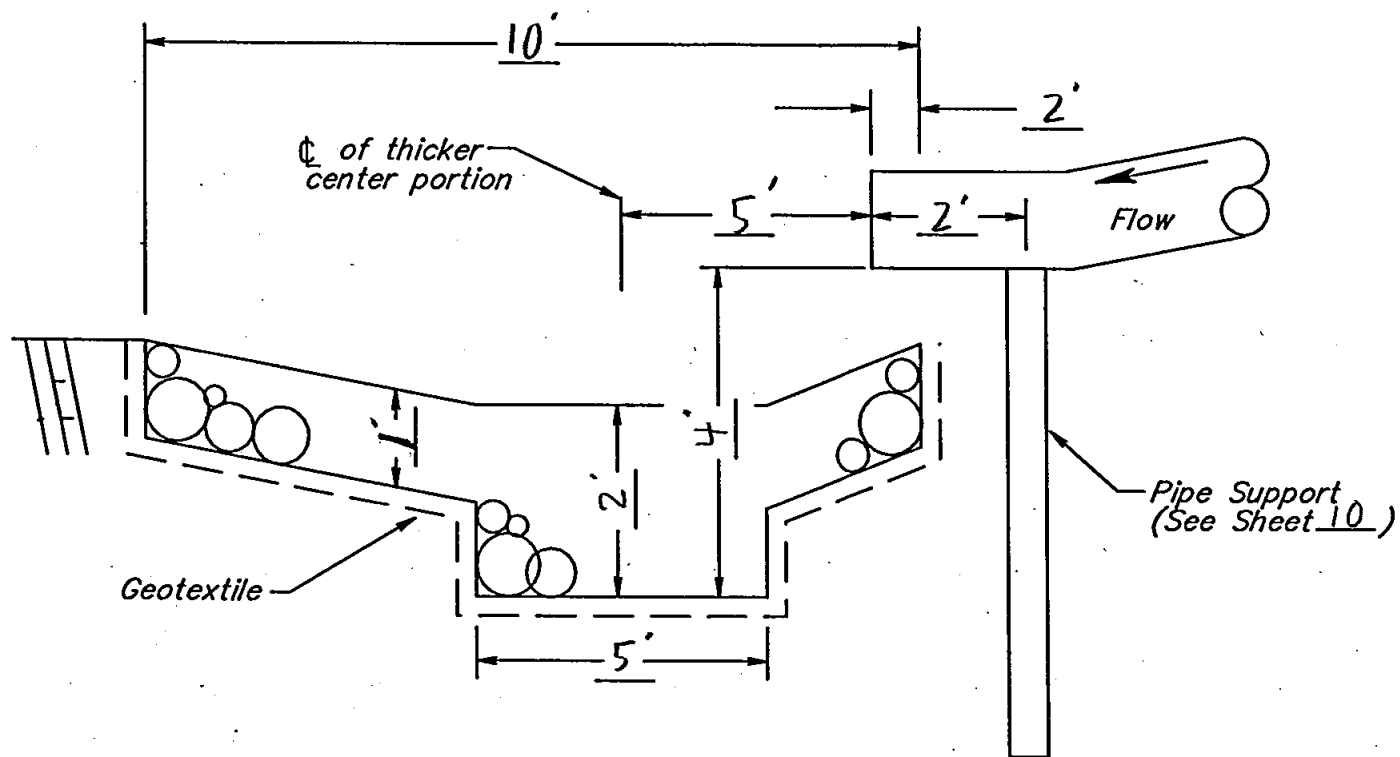
PIPE SUPPORT FOR OUTLET PIPE

OPERATOR: PRAIRIE CUTEAU RESTORATION	
CONSERVATION DISTRICT: DAY	
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	
Designed: STERN	Date: 8/05
Drawn:	Approved by: Michelle Zuley
Traced:	Title: AE
Checked: H. Byrle	Date: 9/05
Sheet No. 10	Drawing No. of 13

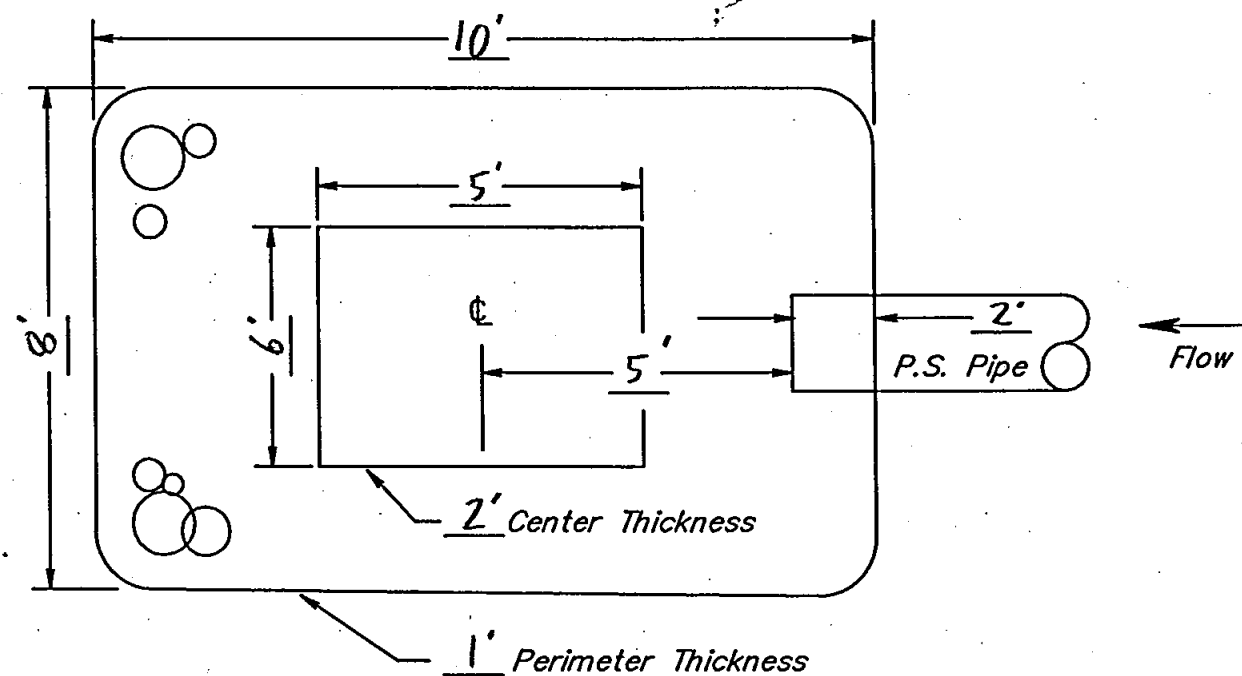
JOB PLAN NO. 4.2

5, N-29, 073.4 - 20

DIKE AREA



Profile of Rock Riprap Outlet Structure
No Scale



Plan View of Rock Riprap Outlet Structure
No Scale

Rock Riprap Outlet Notes:

1. Place 8 oz. geotextile beneath rock. Use 12' long pins at 2' on center at seams and 4' on center elsewhere.
2. Top of perimeter rock shall be flush with ground.
3. Use well graded rock. Use mostly large rock greater than 100 lbs. Use a limited amount of rock less than 6" diameter. Field stone is acceptable when clean and free of debris.

Outlet Structure Quantities

1. Rock Riprap	<u>5</u> CU YD
2. Geotextile	<u>19</u> SQ YD

ROCK OUTLET

REVISIONS		
DATE	APPROVED	TITLE

NRCS
Natural Resources Conservation Service

T	File Name:	SplashPad.pr
	Drawing No.	

9/19/2005 1:22PM
Page 11 of 13

PRODUCER PRATLE COLEAU REST
SW 4 SECTION 35 T. 121. R. 54
DAY _____ COUNTY _____
DAY _____ CONSTRUCTION DISTRICT _____

USDA - NRCS
State Office Engineering Staff
200 Fourth Street SW
Lincoln, South Dakota 57150

Designed	<u>STERN</u>	Date	<u>9-05</u>
Drawn	<u>W. J. Burke</u>	Checked	<u>9-05</u>
Approved	<u>W. J. Burke</u>		<u>9-05</u>

PROFILE OF LARGE BASIN CHANNEL

SCALE: HORIZ. 1"=200'; VERT. 1" = 4'

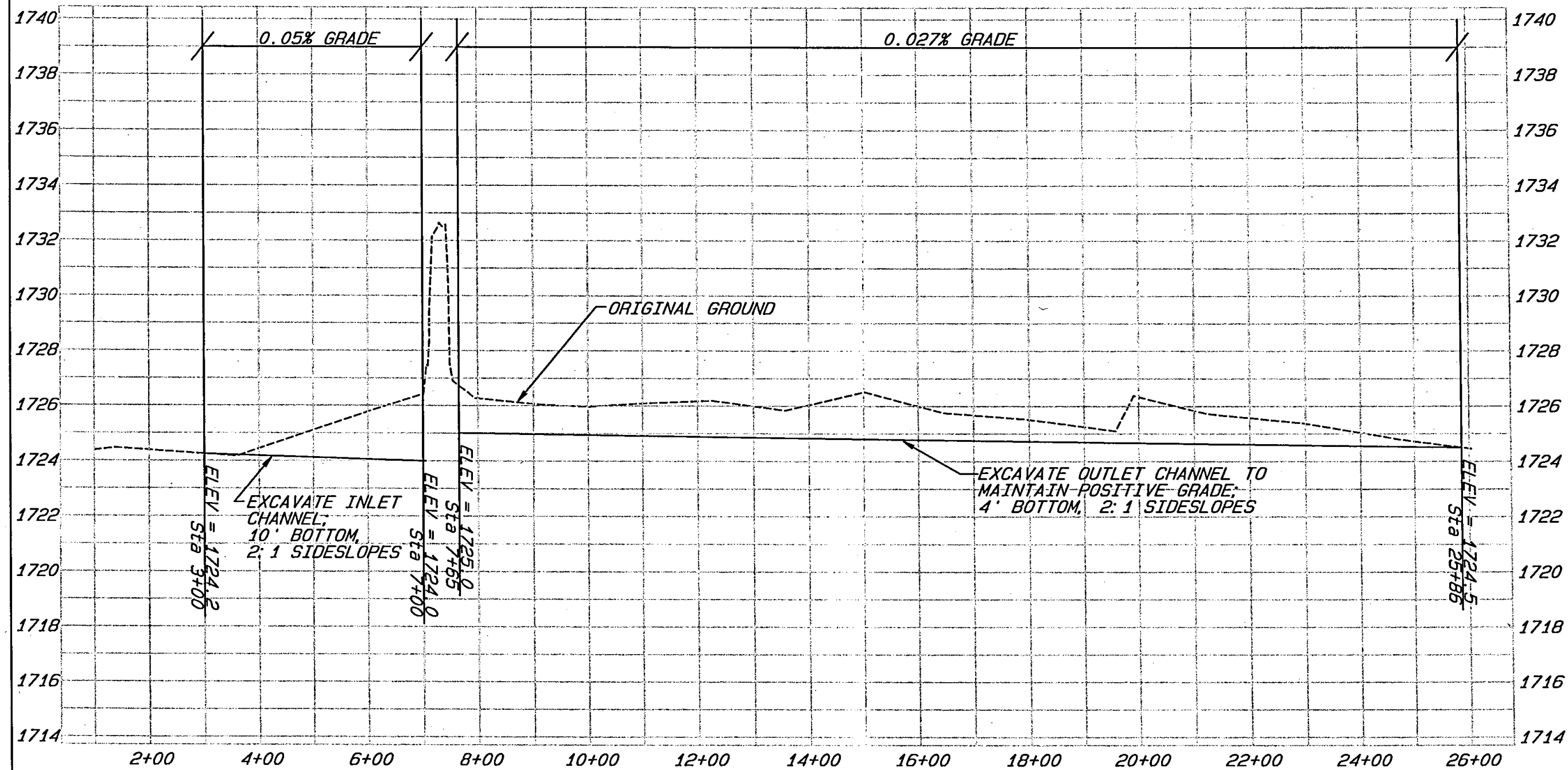


TABLE OF QUANTITIES

ITEM	UNIT	QUANT.	AS BUILT
EXCAVATION	CU. YD.	2356	
SEEDING	AC.	3.5	

Approved by: *[Signature]*
Title: *AE*

Date: 8-05
Designed by: Laura Stern
Drawn by: Laura Stern
Checked by: *[Signature]*

NRCS NATURAL RESOURCES CONSERVATION SERVICE

BROOKINGS FIELD SUPPORT OFFICE
520 THIRD AVENUE P.O. BOX 626
BROOKINGS, SOUTH DAKOTA 57006-0626

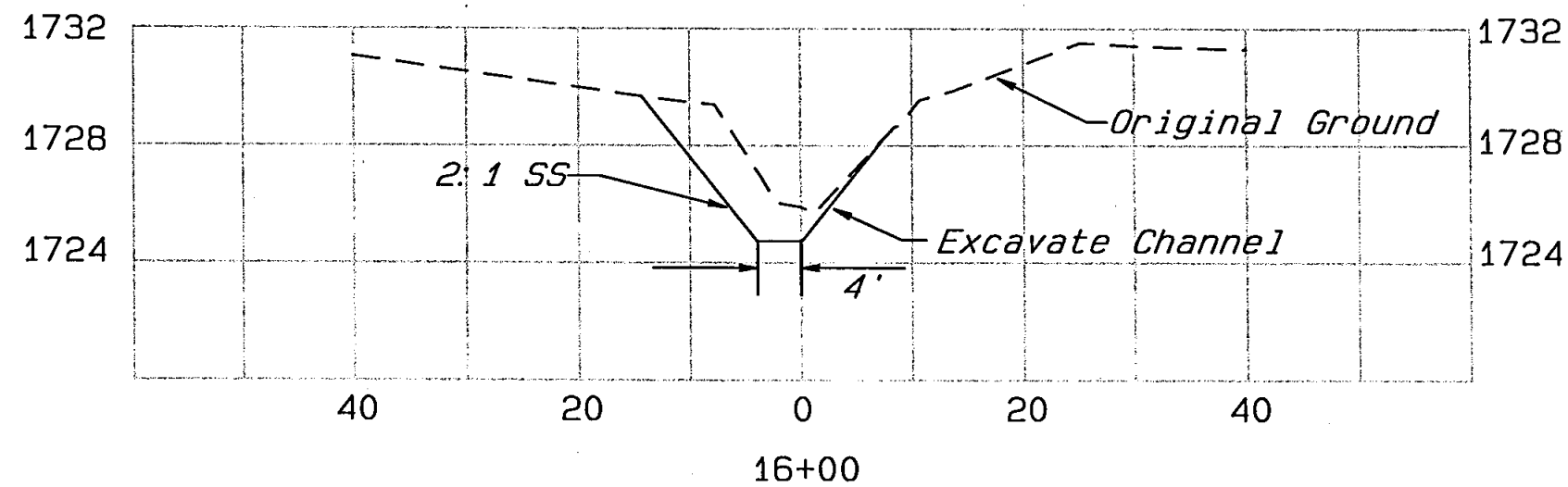
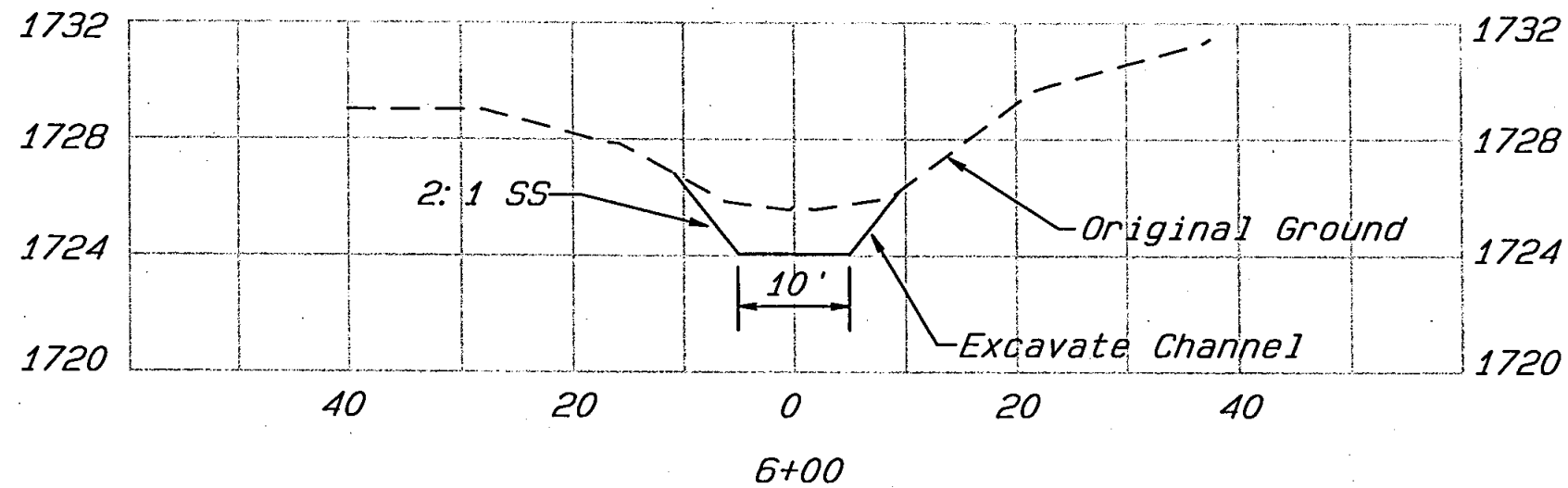
PRAIRIE COTEAU RESTORATION WATERWAY

W2, Sec. 35, T121N, R54W
Day County, South Dakota

Drawing No. DAY111-2121N-1R54W
Sheet No. 12 of 13

OUTLET CHANNEL TYPICAL CROSS SECTIONS

SCALE: HORIZ. 1"=16'; VERT. 1"=3'



Approved by: *[Signature]*
Title: *ME* 9/05

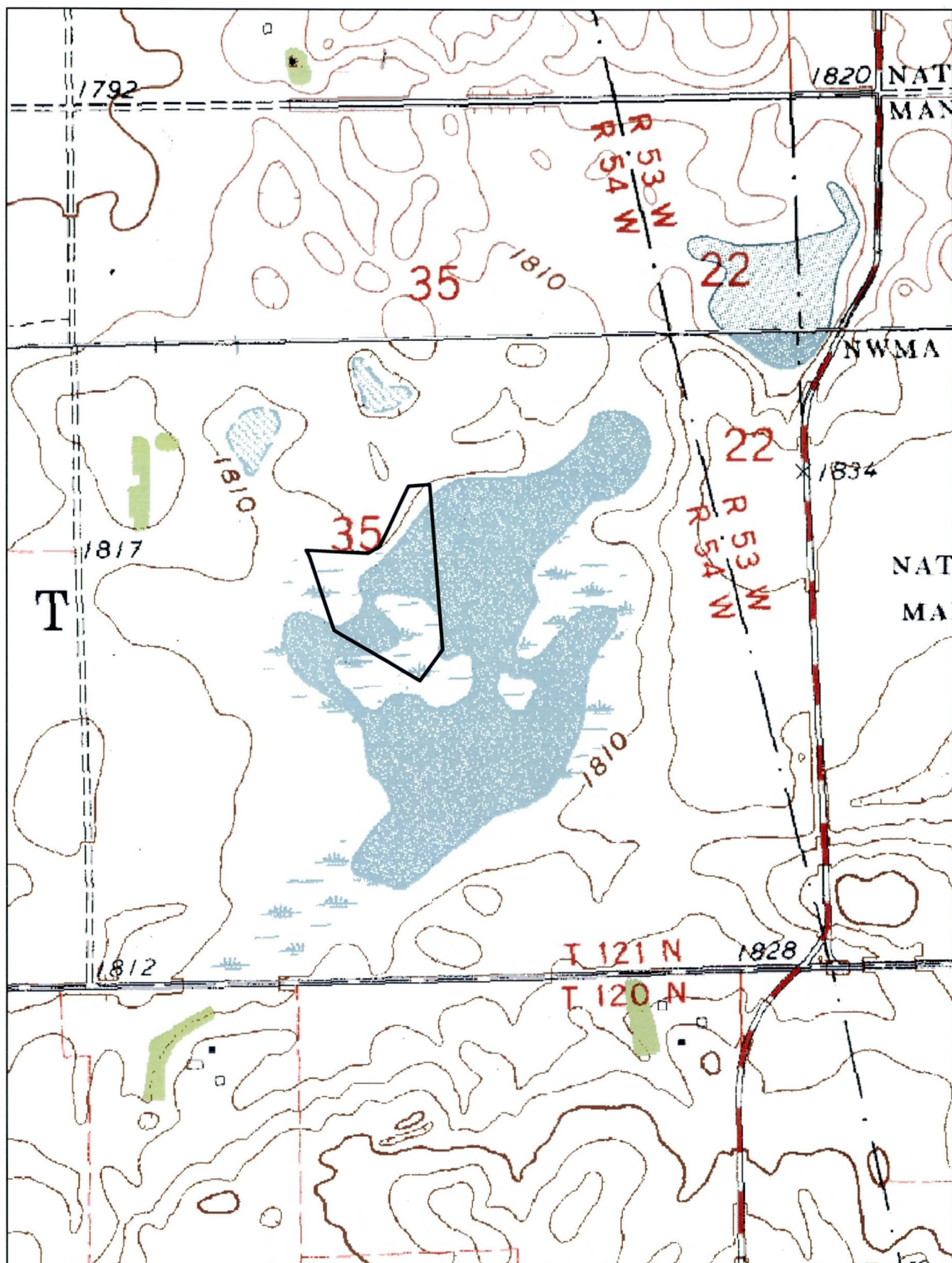
Date: 8-05
Designed by: Laura Stern
Drawn by: Laura Stern
Checked by: *M. Burke* 9-05

NRCS NATURAL RESOURCES
CONSERVATION SERVICE
BROOKINGS FIELD SUPPORT OFFICE
520 THIRD AVENUE P.O. BOX 525
BROOKINGS, SOUTH DAKOTA 57008-0525

**PRAIRIE COTEAU RESTORATION
WATERWAY**
W2, Sec. 35, T12N, R54W
Day County, South Dakota

Drawing No.
DAYWFBigBasinWaterway
Sheet No. 13 of 13





NOTICE OF WELL CONSTRUCTION

Day Co.
INSUFFICIENT LOCATION

(1) WELL CONSTRUCTION

Location of well: NW 1/4 1/4 Section 35 Township 121 Range 59
Well owner Gerald Hammon RR# Waubay SD
(Name) (Address)
Date well drilling completed Feb 10, 1977 Purpose of well _____
(domestic, irrigation, municipal, industrial, other)

WELL LOG

Layers, top to top in feet	Description of layer	Depth to top of water producing aquifer	
0'-2'	Black Till	40'	ft.
2'-20'	Yellow Clay	20'	ft.
20'-30'	Blue Clay		
30'-45'	Blue Clay + Gravel	90'	ft.
45'-60'	Soft + Sand	90'	ft.
60'-87'	Coarse Gravel		
87'-90'	Shale		

Casing information: In the space below show kind, size, weight, lengths per diameter, etc., for production casing and surface casing, if used.
Jet Stream SDR 21 200 PSI 4"
Installed 50'

Screen information: In the space below show length of screen below bottom of casing, diameter and kind of screen or casing perforations.
Jet Stream SDR 21 slotted 4"
screen, Installed 40' Below casing

If a flowing well, flow of completed well _____ G.P.M.

Attach sheet if more space is needed

Sweetwater Drilling Co.
Name of Drilling Contractor

(2) PUMP INSTALLATION

Company name and size of pump _____ HP _____
Type of pump _____ Capacity of installed pump _____ G.P.M.
Depth of pump placement _____ ft., Date of pump installation _____

(3) WATER SURFACE MEASURING TUBE

On some wells an air-tight water surface measuring tube is required: See Section 46.408 of Chapter 46.4, MINIMUM WELL CONSTRUCTION STANDARDS.

Show exact vertical length of water surface measuring tube, when installed _____ ft., tube diameter _____, tube material _____

Name of Pump Installation Contractor

Water Permit Application No. 6707-3

Prairie Coteau Restoration

Top of Dam Elev. - 1730
 2nd Spillway Elev. - 1728
 P. Spillway Elev. - 1725.5 to 1727
 D/S Emb Toe Elev. - 1725

} Ht = 5 ft

Note: Since Emb. Ht. < 6 ft No P's Required!

Normal Storage Capacity 99.8 Ac.-Ft
 Int. Storage Capacity 190 Ac.-Ft
 Max Storage Capacity 398 Ac.-Ft

From USGS WRI 98-4055

DA = 747 Ac = 1.17 mi²
 Region A P_{II} = 0.9

$$\begin{aligned}
 Q_{25} &= 218 CA^{.513} P_{II}^{4.460} \\
 &= 218 (1.17)^{.513} (0.9)^{4.460} \\
 &= 218 (1.0839) (0.6031) \\
 &= \underline{140 \text{ cfs}}
 \end{aligned}$$

Secondary Spillway Flow

$$\begin{aligned}
 Q &= CLH^{3/2} & C &= 2.6 \\
 &= (2.6)(20)(2)^{1.5} & L &= 20 \\
 &= \underline{150 \text{ cfs}} & H &= 2
 \end{aligned}$$

NRCS Annual Yield

DA = 747 ISO = 2 1/2 CN = 78

$$\begin{aligned}
 80\% \text{ chance} &= 0.26 \\
 0.26 \times 747/12 &= \underline{16 \text{ Ac.-Ft}}
 \end{aligned}$$

$$\begin{aligned}
 50\% \text{ chance} &= 0.65 \\
 0.65 \times 747/12 &= \underline{40 \text{ Ac.-Ft}}
 \end{aligned}$$

$$\begin{aligned}
 10\% \text{ chance} &= 2.70 \\
 2.70 \times 747/12 &= \underline{168 \text{ Ac.-Ft}}
 \end{aligned}$$



**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. 6707-3, Prairie Coteau Restoration**

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. 6707-3, Prairie Coteau Restoration, c/o Harold Minnick, 51437 335th Street, Grove City MN 56243.

The Chief Engineer is recommending APPROVAL of Application No. 6707-3 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. 6707-3 authorizes a water control structure to restore a wetland with a storage capacity of 99.8 acre feet of water and sufficient water annually to maintain the water level to the outlet elevation.
2. Water Permit No. 6707-3 amends Water Right No. 4191-3 to include fish and wildlife propagation as an authorized use.

See report on application for additional information.

Garland Erbele, Chief Engineer
April 6, 2006

REPORT ON
WATER PERMIT APPLICATION No. 6707-3
Prairie Coteau Restoration
March 31, 2006

Water Permit Application No. 6707-3 has been filed by Prairie Coteau Restoration, c/o Harold Minnick to impound an additional 99.8 acre-feet of water in a restored wetland by constructing a small water control structure (ditch plug) in the W ½ of Section 35-T121N-R35W and to amend Water Right No. 4191-3 to include fish and wildlife propagation as an authorized use.

Discussion:

Water Right No. 4191-3 was licensed on November 14, 1994 for a right to divert water from one well, located in the NE ¼ SW ¼ of Section 35-T121N-R35W, into a 100 acre-foot storage impoundment (ring dike), located in the SE ¼ NW ¼ and NE ¼ SW ¼ of Section 35-T121N-R54 to irrigate 349 acres, located in Sections 22-T121N-R53W and Section 35-T121N-R54W. Since then, the water right holder indicated that the irrigation has been discontinued; however, water is still diverted from the well into the ring dike for domestic use purposes.

The Water License for Water Right No. 4191-3 was reissued on July 28, 2003 to cancel the irrigation portion of the permit and to add livestock watering (domestic use) as an authorized use of water. Water Right No. 4191-3 authorizes the use of 1.11 cfs from the existing well into the 100 acre-foot storage impoundment with a priority date of March 11, 1977 (Water Permit No. 3834-3); and the 100 acre-foot impoundment has a priority date of August 30, 1976 (Water Permit No. 3314-3).

The proposed additional 99.8 acre-feet of storage will be water from runoff and the existing well. The water will be used for livestock watering and fish and wildlife propagation. A gated 10 inch diameter HDPE overflow culvert will be installed into the ring dike embankment to release well water into the slough area adjacent to the existing ring dike. A water control structure will be added to the slough outlet area near the northwest corner of the slough. The water control structure will have a 10 inch diameter HDPE pipe as the primary spillway and a 20 foot wide earthen channel as the secondary spillway. Flow into the 10 inch diameter outlet will be controlled with an Agri Drain water level control structure which will be able to regulate the storage depth in the slough from 0 to 18 inches.

The proposed water control structure is designed to be 5 feet high with a normal storage capacity of 99.8 acre-feet of water with the reservoir level at the primary spillway elevation of 1727 and a maximum storage capacity of 397 acre-feet with a reservoir level at the top of dam elevation of 1730. Since the embankment will only be 5 feet high it does not meet the definition of a dam as defined in our Safety of Dams Rules, Chapter 74:02:08 and approval of plans and specifications are not required. The minimum spillway design for a small size dam and low hazard classification would be a 25 year event. The proposed water control structure with the 10 inch primary spillway and 20 foot wide secondary, along with the attenuation of the event within the slough area, will be able to easily pass a 25 year or larger event.

The annual yield for this drainage area with an 80 percent chance of occurrence, or 8 out of 10 years, is expected to be 16 acre-feet. The annual yield with a 50 percent chance of occurrence, or 1 out of 2 years, is expected to be 40 acre-feet and the annual yield with a 10 percent chance, or 1 out of 10 years, is expected to be 168 acre-feet.

The restored wetland will be located in the S $\frac{1}{2}$, S $\frac{1}{2}$ NE $\frac{1}{4}$ of Section 35-T121N-R54W on an unnamed tributary to Bitter Lake, about one-half mile upstream of Bitter Lake. There are no existing Water Permits/Rights located between the proposed structure and Bitter Lake. Approval of Water Permit Application No. 6707-3 will have no adverse effect on Bitter Lake.

Conclusions:

1. Water Permit Application No. 6707-3 should be approved since unappropriated water is available and approval should not have any adverse effect on existing Water Permits/Rights.
2. If approved, no additional diversion rate from the well or increase in storage in the existing ring dike impoundment is authorized by this application.

A handwritten signature in black ink, reading "Timothy G. Schaal". The signature is written in a cursive, flowing style.

Timothy G. Schaal, P.E.

Natural Resources Engineering Specialist

1. Linda M. Walters

from the Kaukay Clipper

Cost of Printing 64⁵⁰

April 26, 2006
(Date Signed)

RECEIVED
APR 27 2006
WATER RIGHTS
PROGRAM

**Notice of
Application No.
6707-3 To
Appropriate
Water and to
Amend Water
Right No. 4191-3**

Notice is given that Prairie Coteau Restoration, c/o Harold Minnick, 51437 335th St., Grove City, MN., 56243, has filed an application for a water permit to impound an additional 99.8 acre-feet of water. Water Right No. 4191-3 currently appropriates 1.11 cubic feet of water per second from one well located in the NE 1/4 SW 1/4 Section 35 to maintain a 100-acre-foot impoundment (ring dike) located in the SE 1/4 NW 1/4 and NE 1/4 SW 1/4 Section 35; all in T121N-R54W. This application proposes to impound an additional 99.8 acre-feet of water in a wetland area from runoff and the existing well. A overflow pipe will be installed into the ring dike to act as an outlet and to

facilitate the movement of water from the ring dike into the adjacent wetland area located in portions of the S 1/2, S 1/2 NE 1/4 Section 35-T121N-R54W. A control structure for the wetland will be located in the same area described above for the ring dike. The water will be used for livestock watering and fish and wildlife propagation. This application also amends Water Right No. 4191-3 to include fish and wildlife propagation use. No additional diversion rate from the well or increase in storage in the existing ring dike impoundment is authorized by this application.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6707-3 because 1) unappropriated water is available, 2) existing rights will not be lawfully 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 the 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 the 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 May 4, 2006.

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**
(Publish April 17 & 24, 2006)

Instruction to Newspaper - Publish first Notice on April 17, 2006 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6707-3 to Appropriate Water
and to Amend Water Right No. 4191-3

Notice is given that Prairie Coteau Restoration, c/o Harold Minnick, 51437 335th St, Grove City MN 56243 has filed an application for a water permit to impound an additional 99.8 acre-feet of water. Water Right No. 4191-3 currently appropriates 1.11 cubic feet of water per second from one well located in the NE ¼ SW ¼ Section 35 to maintain a 100 acre-feet impoundment (ring dike) located in the SE ¼ NW ¼ and NE ¼ SW ¼ Section 35; all in T121N-R54W. This application proposes to impound an additional 99.8 acre-feet of water in a wetland area from runoff and the existing well. A overflow pipe will be installed into the ring dike to act as an outlet and to facilitate the movement of water from the ring dike into the adjacent wetland area located in portions of the S ½, S ½ NE ¼ Section 35-T121N-R54W. A control structure for the wetland will be located in the same area described above for the ring dike. The water will be used for livestock watering and fish and wildlife propagation. This application also amends Water Right No. 4191-3 to include fish and wildlife propagation use. No additional diversion rate from the well or increase in storage in the existing ring dike impoundment is authorized by this application.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6707-3 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 the 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 the application. Notice of the hearing will be given to the applicant and any person filing a petition.

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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

April 10, 2006

Waubay Clipper
PO Box 47
Waubay SD 57273-0047

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 6707-3 to Appropriate Water to be published twice. Please publish the first notice on April 17, 2006 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 Prairie Coteau Restoration, % Harold Minnick, 51437 335th St., Grove City MN 56243 (Ph # 320-857-2315).

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. 6707-3

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

Date _____

We are in receipt of your letter of April 10, 2006 enclosing Notice to Appropriate Water by Application No. 6707-3 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.

April 10, 2006

Prairie Coteau Restoration
% Harold Minnick
51437 335th St
Grove City MN 56243

Dear Mr. Minnick:

Water Permit Application No. 6707-3 for fish & wildlife propagation 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 Waubay Clipper printed at Waubay, SD (Ph # 605-947-4501). 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 a 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

c: Kurt Forman

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.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

JUN 12 2006

Prairie Coteau Restoration
c/o Harold Minnick
51437 335th St
Grove City MN 56243

Dear Mr. Minnick:

Enclosed is Water Permit No. 6707-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the permit. Also, enclosed is Amended Water License No. 4191-3 which includes fish and wildlife propagation as an authorized use.

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

c: Kurt Forman

6707-3

RECEIVED

SEP 16 2010

WATER RIGHTS
PROGRAM

**NOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USE**

Date 9-13-10

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

FROM: Prairie Coteau Restoration
(name)
51437 335th Street
(address)
Grove City, MN 56243 320-510-0990
(city, state, zip) (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.

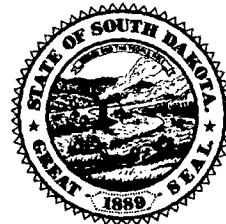
Water Permit No. 6707-3 states that the water use system is to be constructed by
May 4, 2011 (date), and water is to be put to beneficial use by May 4, 2015 (date).

The water use system was completed on June 1, 2008 (date).

Applying the water to beneficial use was completed on April 1, 2009 (date).

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

Local Contact: Kurt Forman (605-690-7550)





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

September 16, 2010

6707-3

Prairie Coteau Restoration
51437 335th St
Grove City MN 56243

Dear Sir:

I am writing to acknowledge receipt of the "Notice of Completion of Works" form that you sent in to let us know that you are completed with the water use system authorized under Water Permit No. 6707-3.

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

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

Sincerely,

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

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

Permit No. 6707-3
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, September 4, 2014, made a thorough examination of the water use system constructed by Prairie Coteau Restoration of 51437 335th St., Grove City, MN 56243 holder of Permit No. 6707-3, bearing the priority of March 24, 2006 authorizing the storage of 99.8 (additional) acre-feet of the waters of runoff and existing well (authorized by Water Right No. 4191-3) for fish & wildlife propagation and livestock water purposes, in Day County.

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

A. Works used to divert the water:

Existing well (irrigation equipment and electric power have been removed. Owner plans on adding a portable pump when needed. So far, diversion from the well has not been needed except for agricultural use, such as, water for spraying).

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

Culvert through ring dike to adjacent slough

C. Works used to apply water to beneficial use:

Existing ring dike (100 ac-ft. capacity) and adjacent slough (99.80 ac-ft. capacity)

The system is in the following condition good. The point of diversion is located Existing well--2,640 ft. south & 1,750 ft. east of the NW corner of Section 35-T121N-R54W (SE ¼ NW ¼) (Lat.45.24659 Long. -97.27741). The works are capable of storing 99.80 (additional) 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:

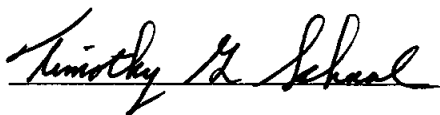
Existing ring dike (100 ac-ft. capacity) and adjacent slough (99.80 ac-ft. capacity)

and the license should be issued for 1.11 cfs and 199.8 acre-feet of storage.

Applicable permit qualifications have been complied with: Yes X

Exceptions to compliance are: none Date Report Completed: March 27, 2015

Comments: The existing well and 100 ac-ft. ring dike are authorized by Water Permit No. 4191-3, with a priority date of August 30, 1976 for the ring dike and March 11, 1977 for the well. The 99.8 ac-ft. of additional storage and fish and wildlife use authorized by Water Permit No. 6707-3 will have a priority date of March 24, 2006.



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

REPORT ON INSPECTION OF PERMIT NO. 6707-3

Other permit(s) associated with the project: 4191-3

DATE OF INSPECTION: September 4, 2014

NAME & ADDRESS OF PERMIT HOLDER: Prairie Coteau Restoration, 51437 335th Street,
Grove City, MN 56243

DIVERSION POINT LEGAL LOCATION: Existing well—2640 ft. south & 1750 ft. east of the NW
corner of Section 35-T121N-R54W (SE1/4 NW 1/4) (Lat. 45.24659 Long.-97.27741).

WELL INFORMATION: (See Water Permit No. 4191-3)

Existing well--(irrigation equipment and electric power have been removed. Owner plans on adding a portable pump when needed. So far, diversion from the well has not been needed except for agricultural use, such as, water for spraying).

ADJACENT SLOUGH OUTLET STRUCTURE:

- 1) Height to crest 5 feet
- 2) Height to primary spillway varies (0 to 3) feet
- 3) Height to secondary spillway 3 feet
- 4) Crest width 16 feet
- 5) Crest length XXX feet
- 6) Spillway length XXX feet
- 7) Spillway width 20 feet
- 8) Approx. storage (Normal) 99.8 acre-feet
- 9) Approx. storage (Maximum) 397 acre-feet
- 10) Date constructed: June 1, 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

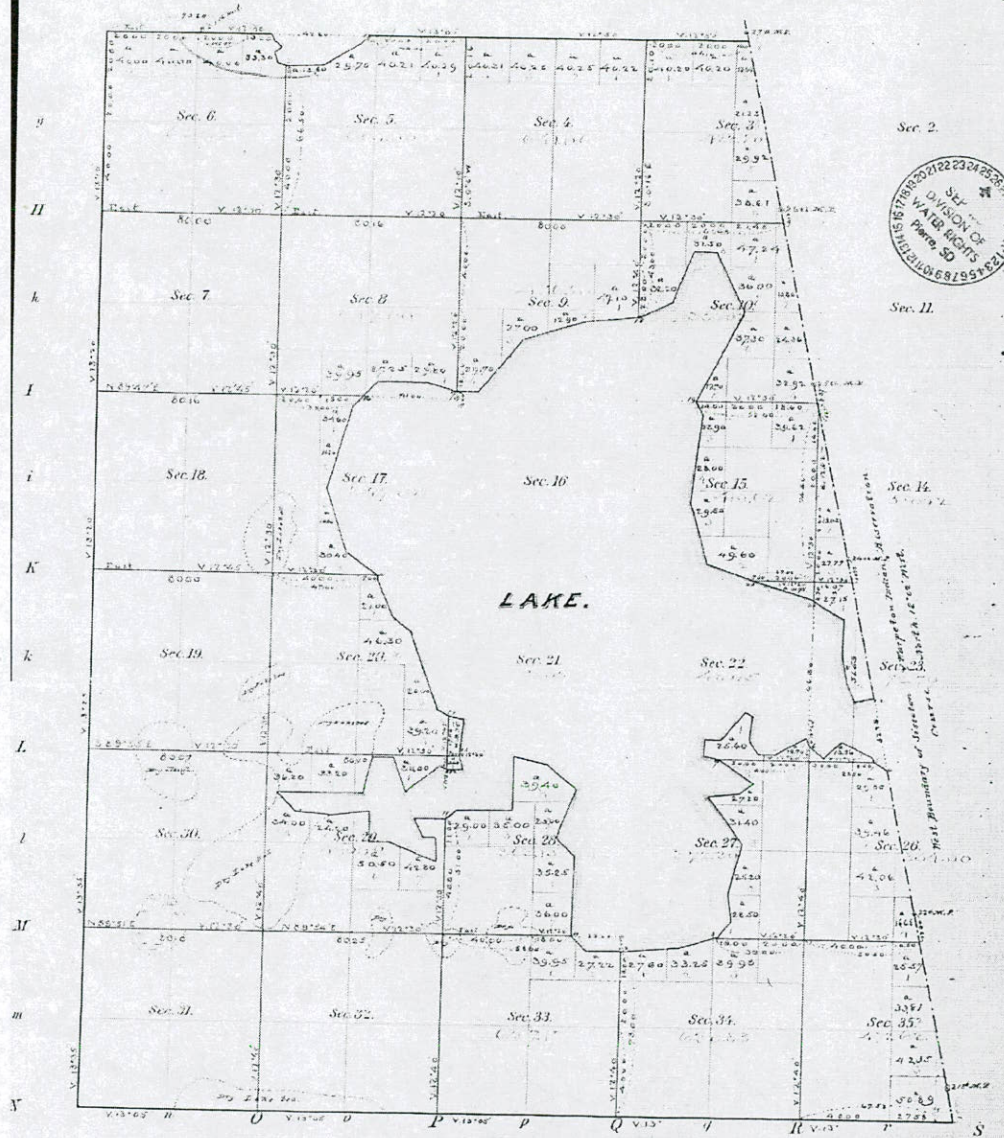
Water Permit Application No. 6707-3



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

3/27/15

TOWNSHIP N^o 42nd North RANGE N^o 54 West of the 5th Principal



Total number of acres				
Survey designated	By whom surveyed	Date of Contract	Amount of Survey	When Surveyed
Township lines	Harace L. Austin	August 27 th 1877	18 - 54 - 44	September 1877
Subdivisions	Harace L. Austin	August 27 th 1877	30 - 51 - 12	October 1877
South boundary	W. T. Doolittle	July 2 nd 1878	6 - 62 - 58	October 1878
Survey of the section	W. H. Barrett	August 22 nd 1878	6 - 10 - 27	1879

The above Map of Town
Principal Meridian
into the survey thereof
Surveyor General
Hartland D. T. Sanborn

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 6707-3

(1) Prairie Coteau Restoration, c/o Harold Minnick, 51437 335th St, Grove City MN 56243 made Application No. 6707-3, March 24, 2006 for a water permit to impound an additional 99.8 acre-feet of water from runoff and an existing well, Day County, South Dakota for fish and wildlife propagation and livestock watering purposes. Permit No. 6707-3, with a priority date of March 24, 2006 was approved May 4, 2006 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before May 4, 2011 and for the application to beneficial use of water on or before May 4, 2015.

Water Right No. 4191-3 authorizes 1.11 cubic feet of water per second (cfs) from one well (Prairie Coteau Aquifer) to maintain a 100 acre-feet impoundment (dike built around a slough area) with priority dates of March 11, 1977 for diversion of groundwater and August 30, 1976 for impoundment of water for fish & wildlife propagation and livestock watering purposes.

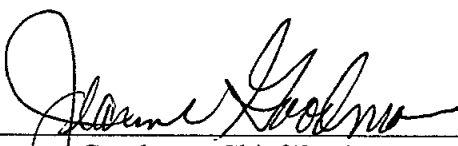
The applicable portions of No. 4191-3 are incorporated into Water License No. 6707-3.

(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Incorporated Water Right No. 6707-3 is issued a license, bearing a priority dates of August 30, 1976 (100 acre-feet), March 11, 1977 (1.11 cfs from well), and March 24, 2006 (99.8 acre-feet) to divert 1.11 cfs from one well to maintain a 100 acre-feet ring dike and a 99.8 acre-feet wetland area (199.8 acre-feet total storage). The water will be used fish and wildlife propagation and livestock watering purposes.

The location of the well is 2,640 feet S and 1,750 feet E of the NW corner of Section 35 (SE 1/4 NW 1/4); ring dike is located in portions of the SE 1/4 NW 1/4 and NE 1/4 SW 1/4 Section 35; and the wetland area is located in portions of the SE 1/4 NW 1/4, N 1/2 SW 1/4 and SE 1/4 SW 1/4, Lots 2, 3 and 4 of Section 35; all in T121N-R54W.

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Incorporated Water Permit No. 6707-3 including any applicable qualifications.

- Water Permit No. 6707-3 authorizes a water control structure to restore a wetland with a storage capacity of 99.8 acre feet of water and sufficient water annually to maintain the water level to the outlet elevation.
- Water Permit No. 6707-3 amends Water Right No. 4191-3 to include fish and wildlife propagation as an authorized use.



Jeanne Goodman, Chief Engineer
Water Rights Program

Department of Environment and Natural Resources

APR 11 2017

date





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

6707-3

APR 11 2017

Prairie Coteau Restoration
Harold Minnick
51437 335th St
Grove City MN 56243

Dear Mr. Minnick:

Enclosed is Water License No. 6707-3. This is the final water right document completing your process of obtaining a Water Right. Also, included with your license is a map prepared by the staff engineer who conducted the investigation.

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

Sincerely,

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

Note: The applicable portions of No. 4191-3 are incorporated into Water License No. 6707-3.

enclosures