

WATER PERMIT NO. 8946-3

Name of Applicant: **Jerry L. Moench**

Address: **26220 421st Avenue, Alexandria SD 57311** Phone: **605-310-2222**

Amount of Water Claimed: **85.4 AF** Total Acres: **N/A**

Source of Water Supply: **Surface**

Water to be used for: **Rec/FWP** County: **Hanson**

Type of Waste Disposal System:

Location: **Approx. 5 miles south of Alexandria**

PRIORITY Date Received: **03-21-25**

Application/License Fee: **\$700.00**

Corrected Application Received: **03-31-25**

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

Remarks: **Two dams**

Diversion Point: **SW 1/4 NW 1/4, SW 1/4 NE 1/4**
Sec 3-T101N-R58W

Land to be Irrigated: **N/A**

Depth of Well: **N/A**

Well Driller: **N/A**

Remarks:

Type of Map: **aerial**

	x				
			x		
			3		

Reviewed and the Number Assigned on: **03-31-25**

By: **Rachel Rodriguez**

Notice of Hearing - date to intervene: _____

SOUTH DAKOTA
WATER PERMIT NO. 8946-3

Date of first receipt of application March 31, 2025.

The Acting Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8946-3 to Jerry L. Moench, 26220 421st Avenue, Alexandria SD 57311, authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 8946-3 authorizes impoundment of 85.4 acre-feet of water of runoff by constructing two dams on a tributary to Bloom Creek. The dams are to be located in the SW 1/4 NW 1/4, and the SW 1/4 NE 1/4 Section 3 with water impounded in the N 1/2 Section 3; all in T101N-R58W. This permit authorizes impoundment of sufficient water to maintain the water level to outlet elevations of 1305.0 and 1310.0 feet mean sea level, respectively. The water will be used for recreation, and fish and wildlife purposes. This site is located approximately 5 miles south of Alexandria SD.
2. The water appropriated shall be used for the purpose of recreation, and fish and wildlife use and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 8946-3 is June 23, 2025.
5. The date from which applicant may claim right is March 31, 2025.
6. One-fifth of the construction is to be completed on or before December 23, 2027.
7. All construction is to be completed on or before June 23, 2030.
8. Water is to be put to beneficial use on or before June 23, 2034.
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. 8946-3 authorizes two impoundments with a combined storage capacity of 85.4 acre-feet of water at the normal pool elevations and sufficient water annually to maintain the water level to the primary outlet elevations of 1,305.0 feet mean sea level (fmsl) and 1,310.0 fmsl (NAVD88).
2. Construction of a dam as defined by Administrative Rules of South Dakota (ARSD) 74:02:08:01(7) will need to comply with ARSD Chapter 74:02:08, Safety of Dams rules including approval of plans and specifications by the Chief Engineer prior to constructing the dam.
3. After an annual fill to the primary outlet elevations is satisfied, no unlawful impairment of this Permit exists by a water permit/right holder placing water to beneficial use under their water permit/right with a junior priority date.

(continued)

4. Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.
5. This Permit does not authorize inundation of a public right-of-way without approval from the pertinent governmental entity or inundation of private property without securing an easement or permission from the property owner.

WATER MANAGEMENT BOARD

By: Mark Mayer
Mark Mayer, PE
Director of Office of Water
Department of Agriculture and Natural Resources

7/24/25
date



RECEIVED

PAID

Mail to: SD DANR, Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8946-3</u> Hydrologic Unit <u>10160011</u>	MAR 31 2025
	Basin <u>James R</u>	OFFICE OF WATER
	Newspaper <u>Salem Special</u>	
	<u>Argus Leader</u> (office use only)	

MAR 31 2025
Ck# 1170
Rec't# _____

Application for Permit to Appropriate Water in South Dakota

Check use(s) of water:

☐ Municipal	☐ Water Distribution System	☒ Recreational	☐ Institutional
☐ Rural Water System	☐ Commercial	☒ Fish & Wildlife	☐ Geothermal
☐ Domestic (over 18 gpm)	☐ Industrial	☐ Other _____	

Type of Application: (check one)

☒ New	☐ Vested Right (Use predates Mar 2, 1955)	☐ Future Use Reservation
☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____		
☐ Amendment/Correction to Permit No. _____		

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

- Name to Appear on Water Permit Jerry L. Moench
Mailing Address 26220 421st Ave. Alexandria SD 57311
(Address) (City) (State) (Zip Code)
Phone _____ Mobile 605-310-2222 Email jmoench8@yahoo.com
- Amount of water claimed _____ *CFS or _____ **GPM and 85.4 ***AF or _____ Gallons
Flow rate and volume are both required. (*Cubic Feet per Second) (**Gallons per Minute) (***Acre Feet - storage capacity of dam/dugout or annual use)
- Source of water supply Surface Runoff
- Location of point of diversion Dam #2 - SW $\frac{1}{4}$ of NW $\frac{1}{4}$, Dam #3 - SW $\frac{1}{4}$ of NE $\frac{1}{4}$, Sec. 3, T101N, R58W County Hanson
(example - 3 wells in SW $\frac{1}{4}$ NE $\frac{1}{4}$ section 12-T104N-R53W)
If not a public water supply (e.g. municipal), will water be used outside of the area described above? ☐ Yes ☐ No
If "Yes," where will water be used? Impounded water for Dam #2 NW $\frac{1}{4}$, Dam #3 NE $\frac{1}{4}$, Section 3, T101N, R58W
(example - NW $\frac{1}{4}$ section 12-T104N-R53W)
- County or counties where water will be used Hanson
- Annual period during which water is to be used Jan. 1 - Dec. 31
- Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

Two earthen dams are proposed to be constructed across the upper reaches of a finger drainage for Bloom Creek. Various seasonal wetland basins that occur along this drainage have been artificially drained in the past via open excavated ditches. The constructed dams would serve to restore and enhance hydrology to multiple smaller drained wetlands to create two larger wetlands. These new dams would be two of three dams along this finger drainage in the north half of section 3. One dam was built in 2001. The two new dams would restore a complex of wetlands and would provide the ability for water level management for each wetland for recreation and wildlife benefits.

I, Jerry L. Moench, Landowner, the applicant, certify under Title (if applicable) _____
penalty of perjury that I have read this application, examined the attached map, and that the matters stated are true. I further certify, if acting on behalf of an entity or individual other than myself, that I am authorized to submit this application.

Supplemental Information

(type or print)

1. Well Information (check one or both as applicable)

☐ Drilling new well(s) ☐ Using existing well(s)

- a) If new wells, how many _____ Have test holes been drilled? ☐ Yes ☐ No Drilled by _____
(if yes, please provide copies of logs)
- b) If existing wells, how many _____ Provide copy of log(s), if available. Drilled by _____

For either existing or proposed wells:

- c) Well Depth (required) _____ Depth to Top of Water Bearing Material _____ Depth to Water from Surface _____
- d) Distance to nearest domestic well on applicant's property _____ 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

DAM # 2

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.

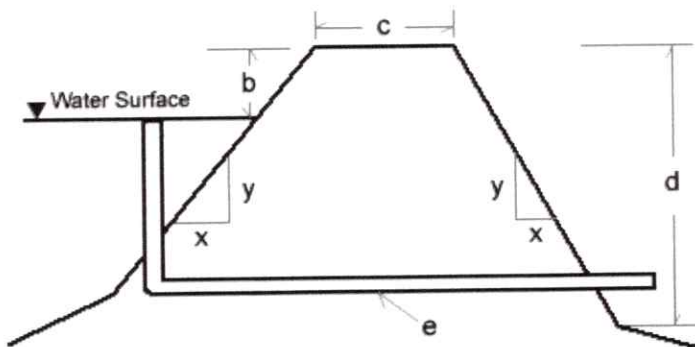
- a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:

Randy Meidinger/Dylan Peterson
Ducks Unlimited, Inc.
34697 107th Street
Long Lake, SD 57457

- b) Freeboard 3.0 feet
- c) Crest Width 12 feet
Crest Length 405.6 feet
- d) Height 6.1 feet
- e) Primary Outlet Capacity 82 cfs

If pipe, diameter 36" CMP

- f) Secondary Spillway Capacity 654 cfs
Spillway Width 160'
- g) X & Y Slope (e.g. 3 to 1 is a typical slope)
Upstream 4 : 1
Downstream 4 : 1
- h) Area of Impoundment 13.5 acres
- i) Storage 21.5 Acre Feet
- j) Drainage Area Above Dam 5060 Acres



Supplemental Information

(type or print)

1. Well Information (check one or both as applicable) ☐ Drilling new well(s) ☐ Using existing well(s)

- a) If new wells, how many _____ Have test holes been drilled? ☐ Yes ☐ No Drilled by _____
(if yes, please provide copies of logs)
- b) If existing wells, how many _____ Provide copy of log(s), if available. Drilled by _____

For either existing or proposed wells:

- c) Well Depth (required) _____ Depth to Top of Water Bearing Material _____ Depth to Water from Surface _____
- d) Distance to nearest domestic well on applicant's property _____ 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

DAM #3

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.

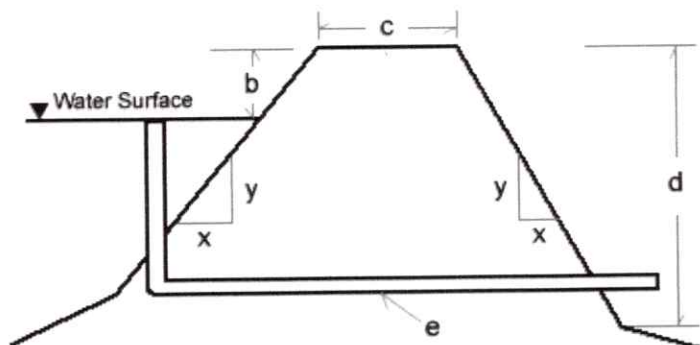
- a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:

Randy Meidinger/Dylan Peterson
Ducks Unlimited, Inc.
34697 107th Street
Long Lake, SD 57457

- b) Freeboard 3.0 feet
- c) Crest Width 12 feet
Crest Length 412.8 feet
- d) Height 8.3 feet
- e) Primary Outlet Capacity 82 cfs

If pipe, diameter 36" CMP

- f) Secondary Spillway Capacity 654 cfs
Spillway Width 160'
- g) X & Y Slope (e.g. 3 to 1 is a typical slope)
Upstream 4 : 1
Downstream 4 : 1
- h) Area of Impoundment 37.3 acres
- i) Storage 63.9 Acre Feet
- j) Drainage Area Above Dam 4860 Acres



Project Wetland Map for Jerry Moench – N½ Sec. 3 + W½W½NW¼ Sec. 2 -T101N, R58W - Hanson County, SD



Red outline is Jerry Moench property ownership boundary

Yellow lines show approximate locations for new dams

Light Blue shaded areas indicate approximate inundated acres at full service level of new dams

Pink lines show approximate locations for dams completed in 2001 under water rights permit 6277-3

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MAR 21 2025



DUCKS UNLIMITED

DUCKS UNLIMITED PROJECT JERRY MOENCH WETLAND LOCATED IN THE NW¹/₄ OF SECTION 3 TOWNSHIP 101N, RANGE 58W, 5TH P.M. HANSON COUNTY, SOUTH DAKOTA



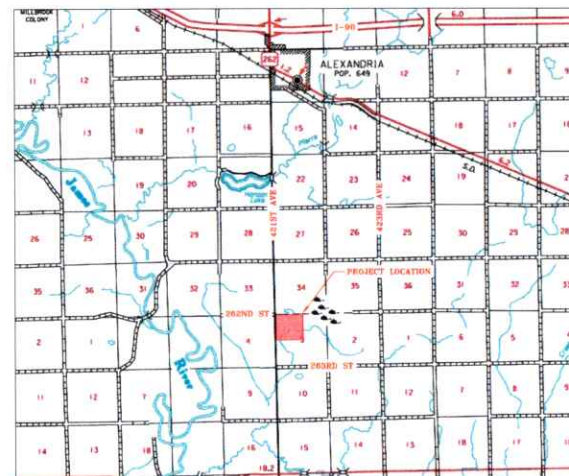
PLAN INDEX	
1	LOCATION & VICINITY MAPS
2	OVERALL PLAN
3	EMBANKMENT 2 DETAILS
4	EMBANKMENT 2 TYPICAL SECTIONS
5	EMBANKMENT 3 DETAILS
6	EMBANKMENT 3 TYPICAL SECTIONS
7	AGRI-DRAIN DETAILS

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102	SUPPLEMENTAL CONDITIONS
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203	EXCAVATION
204	EMBANKMENT CONSTRUCTION
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302	STRUCTURE AND CULVERT APPURTENANCES
303	CULVERT AND PIPE INSTALLATION
304	CAST-IN-PLACE REINFORCED CONCRETE
305	RIPRAP, REVETMENT & AGGREGATE PLACEMENT
401	SOIL EROSION AND POLLUTION CONTROL
402	SEEDING AND MULCHING

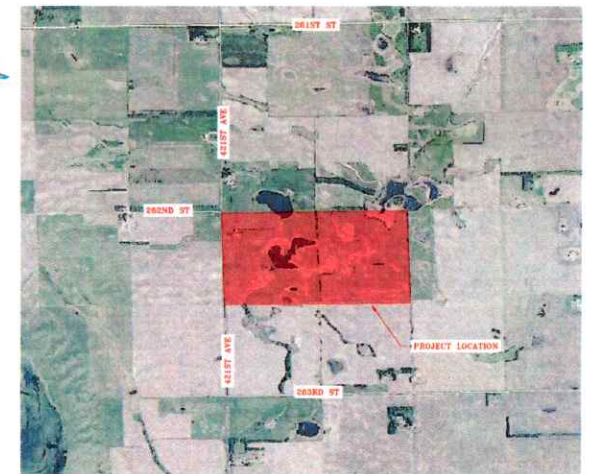
ESTIMATED QUANTITIES

MOBILIZATION	1 L.S.
SITE PREPARATION	1 L.S.
EXCAVATION (INCIDENTAL TO EMBANKMENT CONSTRUCTION)	555 C.Y.-A*
CORE TRENCH EXCAVATION	
EMBANKMENT CONSTRUCTION:	
EMBANKMENT 2	3,050 C.Y.-P**
EMBANKMENT 3	3,620 C.Y.-P**
WATER	1 M.G.
WATER CONTROL STRUCTURES:	
72"Ø PRECAST RCP RISER (MONOLITHIC BASE)	2 EACH
18"Ø INLINE AGRIDRAIN STRUCTURE (6' TALL)	1 EACH
18"Ø INLINE AGRIDRAIN STRUCTURE (4' TALL)	1 EACH
STRUCTURE AND CULVERT APPURTENANCES:	
72"Ø SLOPED GRETA GATE	2 EACH
72"Ø SLOPED INLET	1 EACH
CULVERTS AND PIPES:	
36"Ø GASKETED RCP	78 L.F.-A*
36"Ø RCP FLARED END SECTION	2 EACH
18" (SCH. 40) PVC PIPE	46 L.F.-A*
DU CLASS III RIP RAP	24 C.Y.-P**
SEEDING & MULCHING	1 L.S.

*PAYMENT WILL BE BASED ON ACTUAL QUANTITY USED OR INSTALLED.
**THE UNIT (CY-P) CUBIC YARDS-PLAN MEANS PAYMENT WILL BE BASED ON THE PLAN QUANTITY LISTED ABOVE. 20% SHRINKAGE FACTOR ADDED TO FILL VOLUMES.



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

ALL WRITTEN SCALES ARE ACCURATE ON 24x36 INCH SHEETS

"BEFORE YOU DIG"
BEFORE THE START OF CONSTRUCTION, THE OWNER OF ANY UTILITIES INVOLVED MUST BE NOTIFIED. THE EXCAVATOR/CONTRACTOR IS RESPONSIBLE FOR GIVING THIS NOTICE BY CALLING "NORTH DAKOTA ONE CALL" AT 811. A 72 HOUR NOTIFICATION AND FULL DESCRIPTION OF LOCATION IS REQUIRED.

DU REGIONAL ENGINEER
DYLAN PETERSON, P.E.
2525 RIVER ROAD
BISMARCK, ND 58503
(701) 390-4993

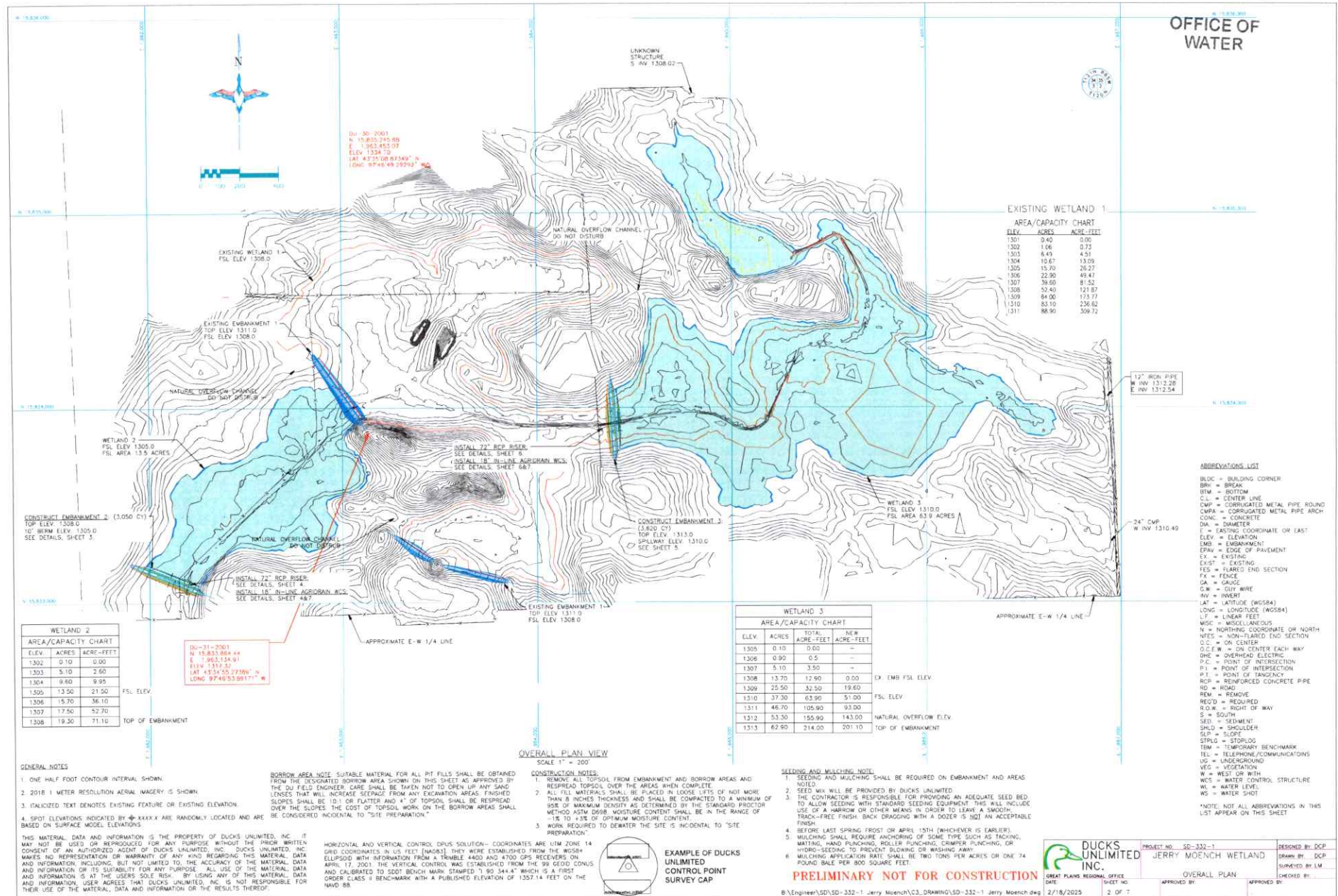
PRELIMINARY NOT FOR CONSTRUCTION

B:\Engineer\SD\SD-332-1 Jerry Moench\C3_DRAWING\SD-332-1 Jerry Moench.dwg 2/18/2025

DUCKS UNLIMITED INC. GREAT PLAINS REGIONAL OFFICE DATE: 2/18/2025	PROJECT NO. SD-332-1	DESIGNED BY: DCP
	JERRY MOENCH WETLAND	DRAWN BY: DCP
	LOCATION & VICINITY MAPS	CHECKED BY: J.M.
	APPROVED BY:	APPROVED BY:

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MAR 21 2025

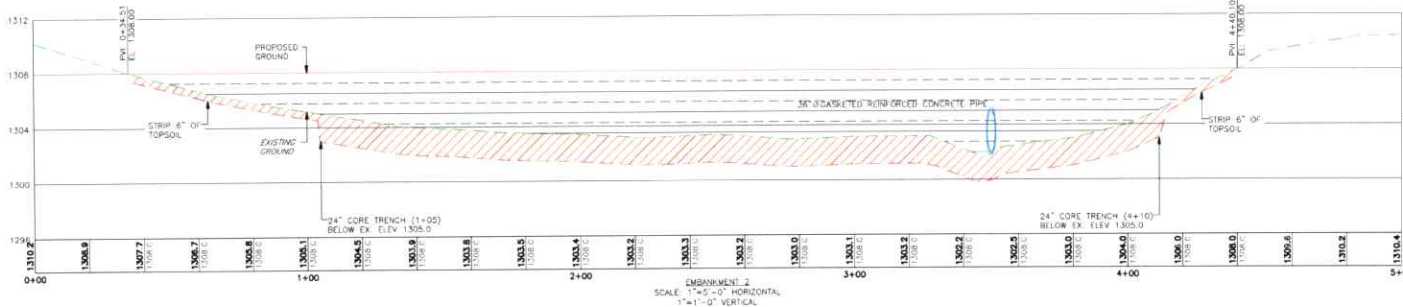
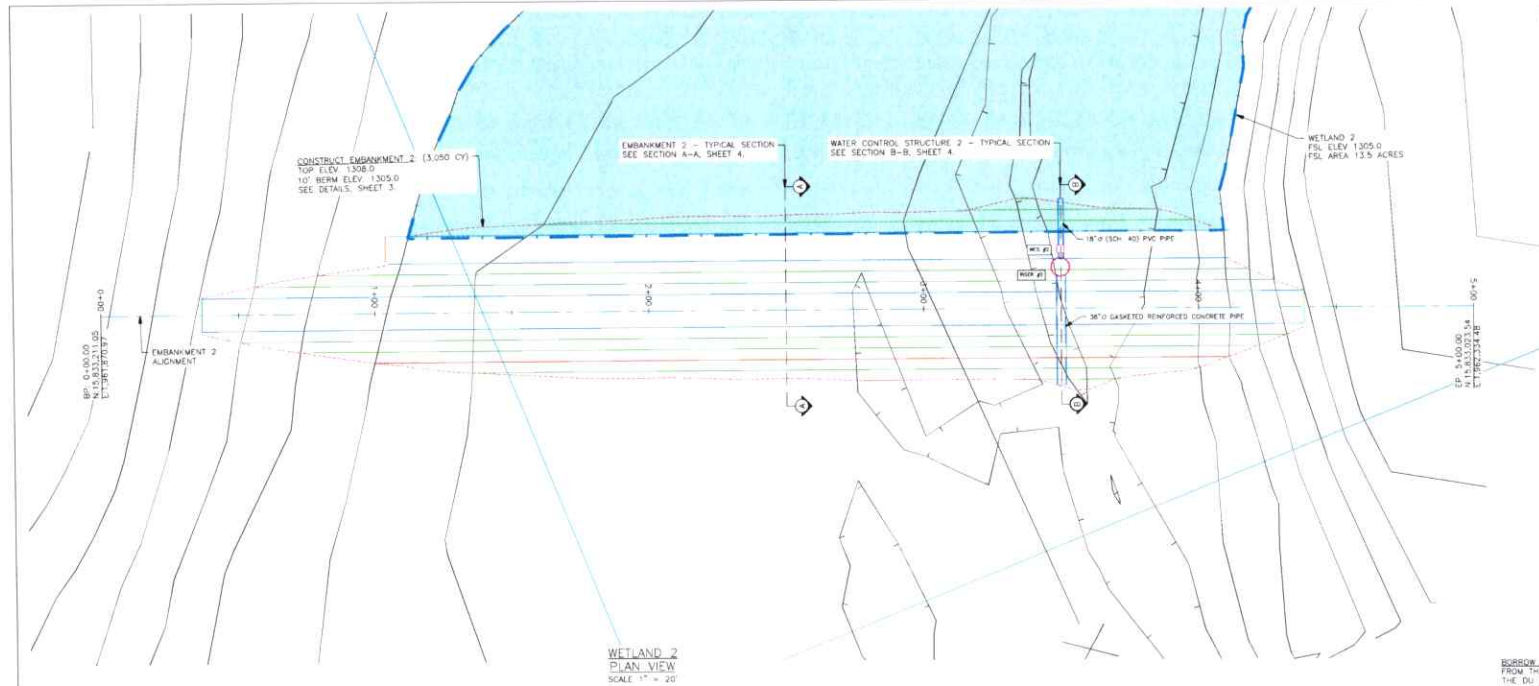
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MAR 21 2025

OFFICE OF
WATER

0 10 20 40 Feet



GENERAL NOTES

- ONE HALF FOOT CONTOUR INTERVAL SHOWN.
- 2018 1 METER RESOLUTION AERIAL IMAGERY IS SHOWN.
- ITALICIZED TEXT DENOTES EXISTING FEATURE OR EXISTING ELEVATION.
- SPOT ELEVATIONS INDICATED BY ϕ XXXX.X ARE RANDOMLY LOCATED AND ARE BASED ON SURFACE MODEL ELEVATIONS.

THIS MATERIAL, DATA AND INFORMATION IS THE PROPERTY OF DUCKS UNLIMITED, INC. IT MAY NOT BE USED OR REPRODUCED FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF AN AUTHORIZED AGENT OF DUCKS UNLIMITED, INC. DUCKS UNLIMITED, INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND REGARDING THIS MATERIAL, DATA AND INFORMATION, INCLUDING, BUT NOT LIMITED TO, THE ACCURACY OF THE MATERIAL, DATA AND INFORMATION OR ITS SUITABILITY FOR ANY PURPOSE. ALL USE OF THE MATERIAL, DATA AND INFORMATION IS AT THE USER'S SOLE RISK. BY USING ANY OF THIS MATERIAL, DATA AND INFORMATION, USER AGREES THAT DUCKS UNLIMITED, INC. IS NOT RESPONSIBLE FOR THEIR USE OF THE MATERIAL, DATA AND INFORMATION OR THE RESULTS THEREOF.

HORIZONTAL AND VERTICAL CONTROL OPUS SOLUTION - COORDINATES ARE UTM ZONE 14 GRID COORDINATES IN US FEET (WAD83). THEY WERE ESTABLISHED FROM THE WGS84 ELLIPSOID WITH INFORMATION FROM A TRIMBLE XX SURVEY GRADE GPS RECEIVER ON XXXX.B.#### AT DUCKS UNLIMITED CONTROL POINT DU-###-## AND CALIBRATED TO AN OPUS POSITION OCCUPIED FOR ## HOURS AND ## MINUTES(S) AND SENT TO NGS FOR SOLUTION. THE VERTICAL CONTROL CAME FROM THE SAME SOLUTION USING GEOID 19A CONUS IN THE NAVD83. THE FULL OPUS SOLUTION REPORT IS ON FILE AT THE DUCKS UNLIMITED ENGINEERING DEPARTMENT IN BISMARCK, NORTH DAKOTA.

CORE TRENCH NOTES

- 24" DEEP CORE TRENCH TO BE EXCAVATED 12" WIDE BELOW EX. GROUND ELEVATIONS STATED ON TYPICAL SECTIONS. SCARIFY 6" PRIOR TO PLACING COMPACTED FILL.
- THE EMBANKMENT SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS, WITH NO ABRUPT GRADE CHANGES.
- ENGINEER TO VERIFY DEPTH AND SUITABLE SUBGRADE PRIOR TO EMBANKMENT CONSTRUCTION BEGINNING.
- WORK REQUIRED FOR 24" CORE TRENCH TO BE PAID BY BID ITEM, "CORE TRENCH EXCAVATION".

BORROW AREA NOTE: SUITABLE MATERIAL FOR ALL PIT FILLS SHALL BE OBTAINED FROM THE DESIGNATED BORROW AREA SHOWN ON THIS SHEET AS APPROVED BY THE DU FIELD ENGINEER. CARE SHALL BE TAKEN NOT TO OPEN UP ANY SAND LENSES THAT WILL INCREASE SEEPAGE FROM ANY EXCAVATION AREAS. FINISHED SLOPES SHALL BE 10:1 OR FLATTER AND 4" OF TOPSOIL SHALL BE RESPREAD OVER THE SLOPES. THE COST OF TOPSOIL WORK ON THE BORROW AREAS SHALL BE CONSIDERED INCIDENTAL TO "SITE PREPARATION".

SEEDING AND MULCHING NOTE

- SEEDING AND MULCHING SHALL BE REQUIRED ON EMBANKMENT AND AREAS NOTED.
- SEED MIX WILL BE PROVIDED BY DUCKS UNLIMITED.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN ADEQUATE SEED BED TO ALLOW SEEDING WITH STANDARD SEEDING EQUIPMENT. THIS WILL INCLUDE USE OF A HARROW OR OTHER MEANS IN ORDER TO LEAVE A SMOOTH, TRACK-FREE FINISH. BACK DRAGGING WITH A DOZER IS NOT AN ACCEPTABLE FINISH.
- BEFORE LAST SPRING FROST OR APRIL 15TH (WHICHEVER IS EARLIER), MULCHING SHALL REQUIRE ANCHORING OF SOME TYPE SUCH AS TACKING, MATTING, HAND PUNCHING, ROLLER PUNCHING, CRIMPER PUNCHING, OR HYDRO-SEEDING TO PREVENT BLOWING OR WASHING AWAY.
- MULCHING APPLICATION RATE SHALL BE TWO TONS PER ACRE OR ONE 74 POUND BALE PER 800 SQUARE FEET.

CONSTRUCTION NOTES

- REMOVE ALL TOPSOIL FROM EMBANKMENT AND BORROW AREAS AND RESPREAD TOPSOIL OVER THE AREAS WHEN COMPLETE.
- ALL FILL MATERIALS SHALL BE PLACED IN LOOSE LIFTS OF NOT MORE THAN 8 INCHES THICKNESS AND SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR METHOD ASTM D998. MOISTURE CONTENT SHALL BE IN THE RANGE OF -1% TO +3% OF OPTIMUM MOISTURE CONTENT.
- WORK REQUIRED TO Dewater THE SITE IS INCIDENTAL TO "SITE PREPARATION".

EMBANKMENT CONSTRUCTION NOTES

- STRIP 6" OF TOPSOIL OUTSIDE OF 24" CORE TRENCH, STOCKPILE, AND SCARIFY 6" PRIOR TO PLACING COMPACTED FILL. SPREAD TOPSOIL OVER COMPACTED EMBANKMENT. COST OF TOPSOIL WORK SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "SITE PREPARATION".
- THE EMBANKMENT SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS, WITH NO ABRUPT GRADE CHANGES.
- EMBANKMENT CONSTRUCTION SHALL BE FROM COMPACTED EARTHEN MATERIAL CONTAINING MINIMAL ORGANIC MATERIAL AND SHALL COMPLY WITH DU SPECIFICATION SECTION 204 "EMBANKMENT CONSTRUCTION".
- BORROW AREA SHALL BE DEVELOPED TO UTILIZE CLAYEY FILL FOR ZONE 1 OF THE EMBANKMENT. ANY GRAVELLY OR HEAVY SAND MATERIAL SHALL BE USED FOR ZONE 2. SEE BORROW NOTES, SHEET 2.
- EMBANKMENT FILL SHALL BE OBTAINED FROM THE SPECIFIED BORROW AREA. FILL SHALL BE PLACED IN LIFTS OF NO MORE THAN 8" AND COMPACTED PRIOR TO PLACING SUBSEQUENT LIFTS.
- CONTRACTOR TO SEED FINISHED EMBANKMENT. SEE SEEDING NOTES.

PRELIMINARY NOT FOR CONSTRUCTION

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DUCKS UNLIMITED
INC.

GREAT PLAINS REGIONAL OFFICE
DATE: 2/18/2025

PROJECT NO. SD-332-1
JERRY MOENCH WETLAND

DESIGNED BY: DCP
DRAWN BY: DCP

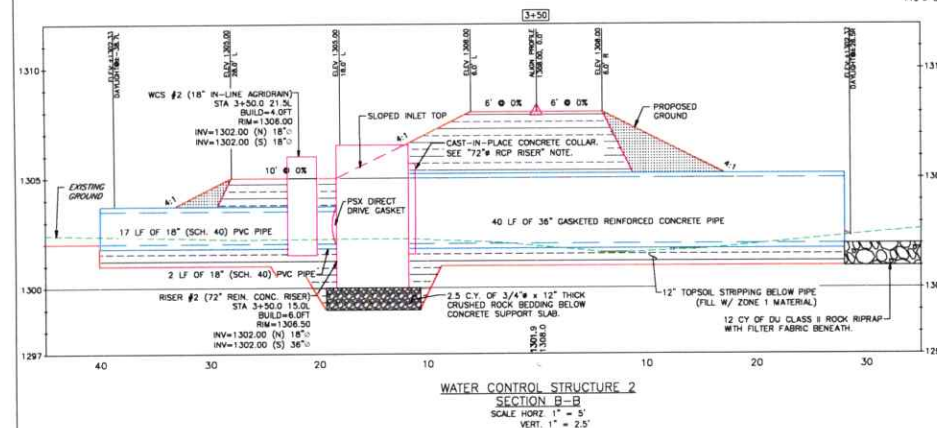
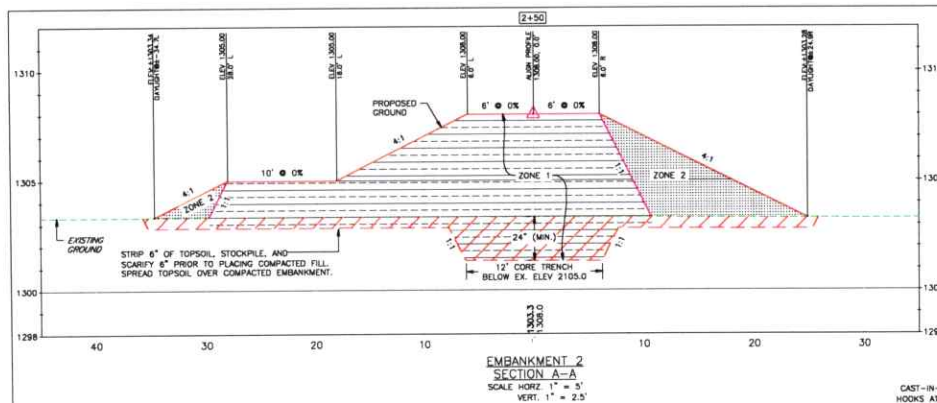
SURVEYED BY: L.M.
CHECKED BY:

APPROVED BY: [Signature]
APPROVED BY: [Signature]

EMBAKMENT 2 DETAILS

RECEIVED

MAR 21 2025

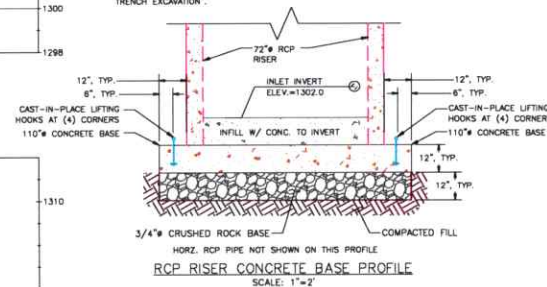
OFFICE OF
WATER

EMBANKMENT CONSTRUCTION NOTES:

1. STRIP 6" OF TOPSOIL OUTSIDE OF 24" CORE TRENCH, STOCKPILE, AND SCARIFY 8" PRIOR TO PLACING COMPACTED FILL. SPREAD TOPSOIL OVER COMPACTED EMBANKMENT. COST OF TOPSOIL WORK SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "SITE PREPARATION".
2. THE EMBANKMENT SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS, WITH NO ABRUPT GRADE CHANGES.
3. EMBANKMENT CONSTRUCTION SHALL BE FROM COMPACTED EARTHEN MATERIAL CONTAINING MINIMAL ORGANIC MATERIAL, AND SHALL COMPLY WITH D1 SPECIFICATION SECTION 204 "EMBANKMENT CONSTRUCTION".
4. BORROW AREA SHALL BE DEVELOPED TO UTILIZE CLAYEY FILL FOR ZONE 1 OF THE EMBANKMENT. ANY GRAVELLY OR HEAVY SAND MATERIAL SHALL BE USED FOR ZONE 2. SEE BORROW NOTES, SHEET 2.
5. EMBANKMENT FILL SHALL BE OBTAINED FROM THE SPECIFIED BORROW AREA. FILL SHALL BE PLACED IN LIFTS OF NO MORE THAN 8" AND COMPACTED PRIOR TO PLACING SUBSEQUENT LIFTS.
6. CONTRACTOR TO SEED FINISHED EMBANKMENT. SEE SEEDING NOTES.

CORE TRENCH NOTES:

1. 24" DEEP CORE TRENCH TO BE EXCAVATED 12" WIDE BELOW EX. GROUND ELEVATIONS SHOWN ON TYPICAL SECTIONS. SCARIFY 8" PRIOR TO PLACING COMPACTED FILL.
2. THE EMBANKMENT SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS, WITH NO ABRUPT GRADE CHANGES.
3. ENGINEER TO VERIFY DEPTH AND SUITABLE SUBGRADE PRIOR TO EMBANKMENT CONSTRUCTION BEGINNING.
4. WORK REQUIRED FOR 24" CORE TRENCH TO BE PAID BY BID ITEM, "CORE TRENCH EXCAVATION".



72" PRECAST REINFORCED CONCRETE RISER NOTE:

CONTRACTOR SHALL INSTALL PRECAST 72" REINFORCED CONCRETE RISER 8' L.F. TALL WITH WATER TIGHT JOINTS. THE BOTTOM BASE SHALL BE MONOLITHIC AND THE PRECAST SUPPLIER SHALL CREATE A CIRCULAR KNOCK-OUT FOR THE 36" RCP. THE CIRCULAR KNOCK-OUT SHALL BE 3" WIDER THAN THE OUTSIDE DIAMETER OF A 36" GASKETED, CLASS II, RCP. RISER WILL BE BEDDED ON 3/4" TO 1-1/4" CLEAR OR CRUSHED ROCK BEDDING, EXACT DEPTH WILL BE DETERMINED IN THE FIELD. THE CONTRACTOR WILL BE REQUIRED TO POUR A CONCRETE COLLAR AROUND CIRCULAR KNOCK-OUT IN THE RISER AND THE 36" RCP, 1" THICK AND 1' BEYOND OUTSIDE DIAMETER OF THE RCP. MINIMUM 4,000 PSI CONCRETE. CONTRACTOR WILL BE REQUIRED TO USE A CONCRETE VIBRATOR TO ENSURE ALL VOIDS HAVE BEEN FILLED. CONTRACTOR WILL LET CONCRETE CURE BEFORE BACKFILLING AGAINST SUCH AS DETERMINED BY THE ENGINEER. CONTRACTOR WILL ALSO POUR A FLOOR INSIDE THE RISER UP TO THE 36" INVERT, 4,000 PSI CONCRETE AND A SMOOTH FINISH. THE GRETA GATE, OR APPROVED EQUAL, WILL BE ATTACHED TO THE TOP OF THE RISER AFTER BRIMAP PLACEMENT. GRETA GATE CAN BE FOUND AT HANJA INDUSTRIES. THE GRETA GATE SHALL BE ANCHORED TO THE TOP OF THE RISER USING 5/8" x 4-3/4" STAINLESS STEEL ANCHOR BOLTS.

PAYMENT FOR PRECAST 72" RISER SHALL BE PAID FOR BASED ON THE CONTRACTORS UNIT BID PRICE FOR "72" RCP RISER".

36" GASKETED RCP INSTALLATION NOTE:

CONTRACTOR TO INSTALL 40' OF 36" RCP, GASKETED, CLASS II, SLOPE=0.0%

CONTRACTOR SHALL BED AND BACKFILL PIPE WITH ZONE 1 MATERIAL. SEE EMBANKMENT CONSTRUCTION NOTES. LIFTS SHALL NOT EXCEED 12" DEPTH THROUGH THIS ZONE AND SHALL BE COMPACTED TO 95% OF A STANDARD PROCTOR.

DOUBLE EYE BOLT TIE RODS SHALL BE USED AT EACH PIPE SECTION AND SHALL BE INSTALLED ON OUTSIDE OF PIPE. TIE ROD HOLES SHALL BE FILLED WITH MASTIC OR SILICONE TO PROVIDE A "WATERTIGHT" SEAL AS DETERMINED BY THE DU ENGINEER.

PAYMENT FOR MATERIALS AND INSTALLATION OF EYE BOLT TIE RODS CONSIDERED INCIDENTAL TO BID ITEM, "36" GASKETED RCP".

GENERAL NOTES:

1. ONE HALF FOOT CONTOUR INTERVAL SHOWN.
2. 2018 1 METER RESOLUTION AERIAL IMAGERY IS SHOWN.
3. ITALICIZED TEXT DENOTES EXISTING FEATURE OR EXISTING ELEVATION.
4. SPOT ELEVATIONS INDICATED BY ∇ ARE RANDOMLY LOCATED AND ARE BASED ON SURFACE MODEL ELEVATIONS.

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HORIZONTAL AND VERTICAL CONTROL OPUS SOLUTION - COORDINATES ARE UTM ZONE 14 GRID COORDINATES IN US FEET (NA83). THEY WERE ESTABLISHED FROM THE WGS84 ELLIPSOID WITH INFORMATION FROM A TRIMBLE XX SURVEY GRADE GPS RECEIVER ON XXXX #, 1111 AT DUCKS UNLIMITED CONTROL POINT DU-1111-1111 AND CALIBRATED TO AN OPUS POSITION OCCUPIED FOR # HOURS AND # MINUTE(S) AND SENT TO NGS FOR SOLUTION. THE VERTICAL CONTROL CAME FROM THE SAME SOLUTION USING GEOID 12A CONUS IN THE NAVD83. THE FULL OPUS SOLUTION REPORT IS ON FILE AT THE DUCKS UNLIMITED ENGINEERING DEPARTMENT IN BISMARCK, NORTH DAKOTA.

PRELIMINARY NOT FOR CONSTRUCTION

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PROJECT NO. SD-332-1
JERRY MOENCH WETLAND

EMBANKMENT 2 TYPICAL SECTIONS

DESIGNED BY: DCP
DRAWN BY: DCP
SURVEYED BY: L.M.
CHECKED BY:

DATE: 2/18/2025

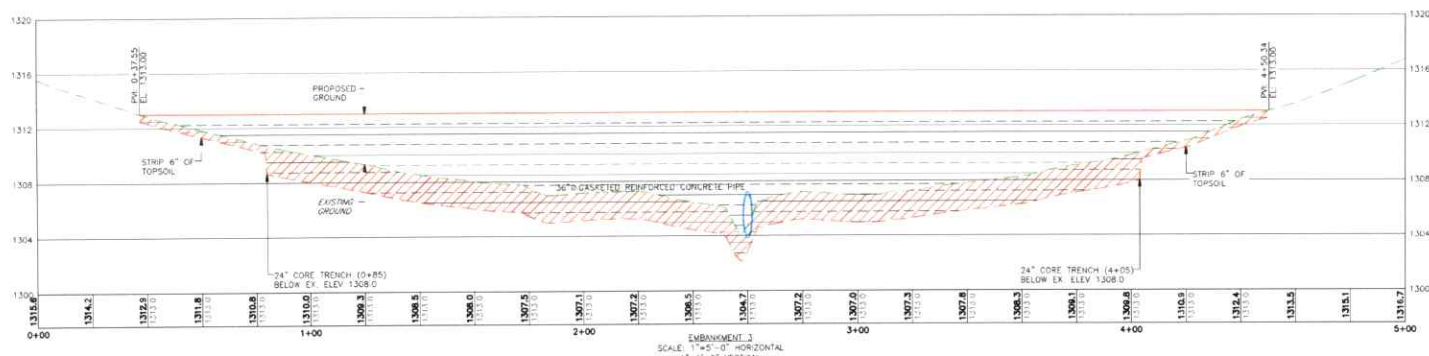
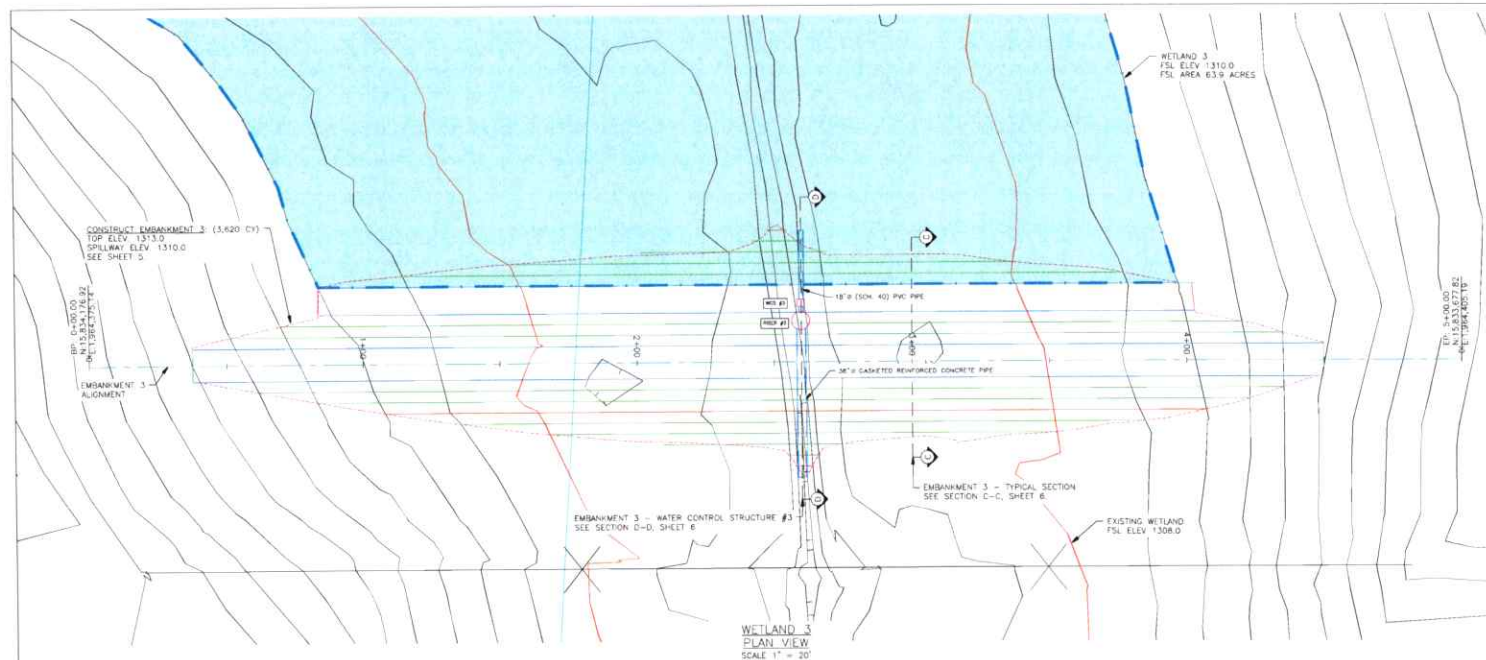
SHEET NO. 4 OF 7

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0 10 20 40 feet



BORROW AREA NOTE: SUITABLE MATERIAL FOR ALL PIT FILLS SHALL BE OBTAINED FROM THE DESIGNATED BORROW AREA SHOWN ON THIS SHEET AS APPROVED BY THE DU FIELD ENGINEER. CARE SHALL BE TAKEN NOT TO OPEN UP ANY SAND LENSES THAT WILL INCREASE SEEPAGE FROM ANY EXCAVATION AREAS. FINISHED SLOPES SHALL BE 10:1 OR FLATTER AND 4\"/>

SEEDING AND MULCHING NOTE:
1. SEEDING AND MULCHING SHALL BE REQUIRED ON EMBANKMENT AND AREAS NOTED.
2. SEED MIX WILL BE PROVIDED BY DUCKS UNLIMITED.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN ADEQUATE SEED BED TO ALLOW SEEDING WITH STANDARD SEEDING EQUIPMENT. THIS WILL INCLUDE USE OF A HARROW OR OTHER MEANS IN ORDER TO LEAVE A SMOOTH, TRACK-FREE FINISH BACK DRAGGING WITH A DOZER IS NOT AN ACCEPTABLE FINISH.
4. BEFORE LAST SPRING FROST OR APRIL 15TH (WHICHEVER IS EARLIER), MULCHING SHALL REQUIRE ANCHORING OF SOME TYPE SUCH AS TACKING, MATTING, HAND PUNCHING, ROLLER PUNCHING, CRUMPER PUNCHING, OR HYDRO-SEEDING TO PREVENT BLOWING OR WASHING AWAY.
5. MULCHING APPLICATION RATE SHALL BE TWO TONS PER ACRE OR ONE 74 POUND BALE PER 800 SQUARE FEET.

CONSTRUCTION NOTES:
1. REMOVE ALL TOPSOIL FROM EMBANKMENT AND BORROW AREAS AND RESPREAD TOPSOIL OVER THE AREAS WHEN COMPLETE.
2. ALL FILL MATERIALS SHALL BE PLACED IN 1000E LIFTS OF NOT MORE THAN 8 INCHES THICKNESS AND SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR METHOD ASTM D1557. OPTIMUM MOISTURE CONTENT SHALL BE IN THE RANGE OF -1% TO +3% OF OPTIMUM MOISTURE CONTENT.
3. WORK REQUIRED TO Dewater THE SITE IS INCIDENTAL TO "SITE PREPARATION".

EMBANKMENT CONSTRUCTION NOTES:
1. STRIP 6\"/>

CORE TRENCH NOTES:
1. 24\"/>

GENERAL NOTES

- ONE HALF FOOT CONTOUR INTERVAL SHOWN.
- 2018 1 METER RESOLUTION AERIAL IMAGERY IS SHOWN.
- ITALICIZED TEXT DENOTES EXISTING FEATURE OR EXISTING ELEVATION.
- SPOT ELEVATIONS INDICATED BY $\diamond$ XXXX.X ARE RANDOMLY LOCATED AND ARE BASED ON SURFACE MODEL ELEVATIONS.

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HORIZONTAL AND VERTICAL CONTROL OPUS SOLUTION- COORDINATES ARE UTM ZONE 14 GRID COORDINATES IN US FEET (NAD83). THEY WERE ESTABLISHED FROM THE WOGSA ELLIPSOID WITH INFORMATION FROM A TRIMBLE XX SURVEY GRADE GPS RECEIVER ON XXXX.X. ### AT DUCKS UNLIMITED CONTROL POINT DU-###-## AND CALIBRATED TO AN OPUS POSITION OCCUPIED FOR # HOURS AND ## MINUTE(S) AND SENT TO NGS FOR SOLUTION. THE VERTICAL CONTROL CAME FROM THE SAME SOLUTION USING GSD01 12A CONUS IN THE NAVD83. THE FULL OPUS SOLUTION REPORT IS ON FILE AT THE DUCKS UNLIMITED ENGINEERING DEPARTMENT IN BISMARCK, NORTH DAKOTA.

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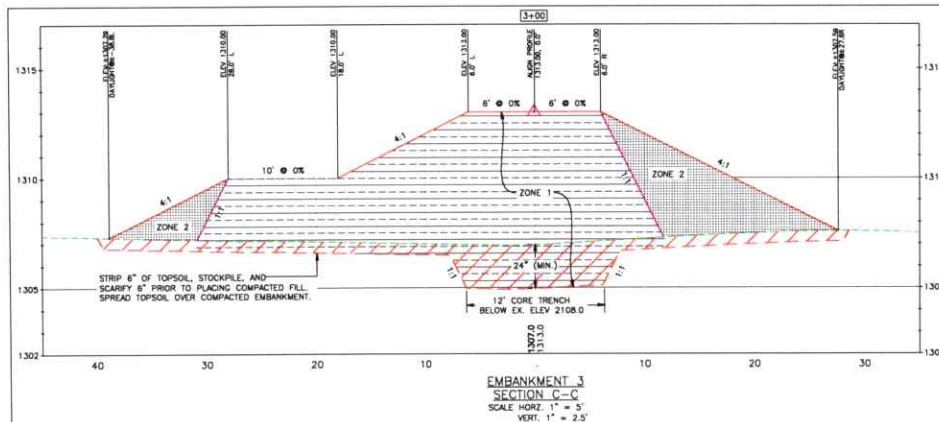
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DUCKS UNLIMITED INC. GREAT PLAINS REGIONAL OFFICE DATE: 2/18/2025 SHEET NO: 5 OF 7	PROJECT NO: SD-332-1 JERRY MOENCH WETLAND	DESIGNED BY: DCP DRAWN BY: DCP SURVEYED BY: L.M. CHECKED BY:
	EMBANKMENT 3 DETAILS APPROVED BY:	APPROVED BY:

RECEIVED

MAR 21 2025

OFFICE OF
WATER

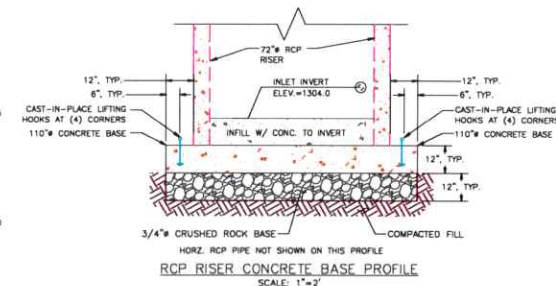


EMBANKMENT CONSTRUCTION NOTES:

1. STRIP 6" OF TOPSOIL OUTSIDE OF 24" CORE TRENCH, STOCKPILE, AND SCARIFY 8" PRIOR TO PLACING COMPACTED FILL. SPREAD TOPSOIL OVER COMPACTED EMBANKMENT. COST OF TOPSOIL WORK SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "SITE PREPARATION".
2. THE EMBANKMENT SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS, WITH NO ABRUPT GRADE CHANGES.
3. EMBANKMENT CONSTRUCTION SHALL BE FROM COMPACTED EARTHEN MATERIAL CONTAINING MINIMAL ORGANIC MATERIAL, AND SHALL COMPLY WITH DU SPECIFICATION SECTION 204 "EMBANKMENT CONSTRUCTION".
4. BORROW AREA SHALL BE DEVELOPED TO UTILIZE CLAYEY FILL FOR ZONE 1 OF THE EMBANKMENT. ANY GRAVELLY OR HEAVY SAND MATERIAL SHALL BE USED FOR ZONE 2. SEE BORROW NOTES, SHEET 2.
5. EMBANKMENT FILL SHALL BE OBTAINED FROM THE SPECIFIED BORROW AREA. FILL SHALL BE PLACED IN LIFTS OF NO MORE THAN 8" AND COMPACTED PRIOR TO PLACING SUBSEQUENT LIFTS.
6. CONTRACTOR TO SEED FINISHED EMBANKMENT. SEE SEEDING NOTES.

CORE TRENCH NOTES:

1. 24" DEEP CORE TRENCH TO BE EXCAVATED 12" WIDE BELOW EX. GROUND ELEVATIONS STATED ON TYPICAL SECTIONS. SCARIFY 8" PRIOR TO PLACING COMPACTED FILL.
2. THE EMBANKMENT SUBGRADE MUST BE STABLE, UNIFORMLY GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS, WITH NO ABRUPT GRADE CHANGES.
3. ENGINEER TO VERIFY DEPTH AND SUITABLE SUBGRADE PRIOR TO EMBANKMENT CONSTRUCTION BEGINNING.
4. WORK REQUIRED FOR 24" CORE TRENCH TO BE PAID BY BID ITEM, "CORE TRENCH EXCAVATION".



72" RCP RISER NOTE:

CONTRACTOR SHALL INSTALL PRECAST 72" REINFORCED CONCRETE RISER 8' L.F. TALL WITH WATER TIGHT JOINTS. THE BOTTOM BASE SHALL BE MONOLITHIC AND THE PRECAST SUPPLIER SHALL CREATE A CIRCULAR KNOCK-OUT FOR THE 36" RCP. THE CIRCULAR KNOCK-OUT SHALL BE 3" WIDER THAN THE OUTSIDE DIAMETER OF A 36" GASKETED, CLASS II, RCP. RISER WILL BE BEDDED ON 3/4" TO 1-1/4" CLEAR OR CRUSHED ROCK BEDDING. EXACT DEPTH WILL BE DETERMINED IN THE FIELD. THE CONTRACTOR WILL BE REQUIRED TO POUR A CONCRETE COLLAR AROUND CIRCULAR KNOCK-OUT IN THE RISER AND THE 36" RCP. 1" THICK AND 1' BEYOND OUTSIDE DIAMETER OF THE RCP. MINIMUM 4,000 PSI CONCRETE. CONTRACTOR WILL BE REQUIRED TO USE A CONCRETE VIBRATOR TO ENSURE ALL VOIDS HAVE BEEN FILLED. CONTRACTOR WILL LET CONCRETE CURE BEFORE BACKFILLING AGAINST SUCH AS DETERMINED BY THE ENGINEER. CONTRACTOR WILL ALSO POUR A FLOOR INSIDE THE RISER UP TO THE 36" INVERT, 4,000 PSI CONCRETE AND A SMOOTH FINISH. THE GRETA GATE, OR APPROVED EQUAL, WILL BE ATTACHED TO THE TOP OF THE RISER AFTER RPPRAP PLACEMENT. GRETA GATE CAN BE FOUND AT HAKA INDUSTRIES. THE GRETA GATE SHALL BE ANCHORED TO THE TOP OF THE RISER USING 5/8"x44-3/4" STAINLESS STEEL ANCHOR BOLTS.

PAYMENT FOR PRECAST 72" RISER SHALL BE PAID FOR BASED ON THE CONTRACTORS UNIT BID PRICE FOR "72" RCP RISER."

36" GASKETED RCP PIPE INSTALLATION NOTE:

CONTRACTOR TO INSTALL 54' OF 36" RCP, GASKETED, CLASS II, @ SLOPE=0.0% EMBANKMENT CONSTRUCTION NOTES. LIFTS SHALL NOT EXCEED 12" DEPTH THROUGH THIS ZONE AND SHALL BE COMPACTED TO 95% OF A STANDARD PROCTOR.

DOUBLE EYE BOLT TIE RODS SHALL BE USED AT EACH PIPE SECTION AND SHALL BE INSTALLED ON OUTSIDE OF PIPE. TIE ROD HOLES SHALL BE FILLED WITH MASTIC OR SILICONE TO PROVIDE A "WATERTIGHT" SEAL AS DETERMINED BY THE DU ENGINEER.

PAYMENT FOR MATERIALS AND INSTALLATION OF EYE BOLT TIE RODS CONSIDERED INCIDENTAL TO BID ITEM, "36" GASKETED REINFORCED CONCRETE PIPE."

GENERAL NOTES

1. ONE HALF FOOT CONTOUR INTERVAL SHOWN.
2. 2018 1 METER RESOLUTION AERIAL IMAGERY IS SHOWN.
3. ITALICIZED TEXT DENOTES EXISTING FEATURE OR EXISTING ELEVATION.
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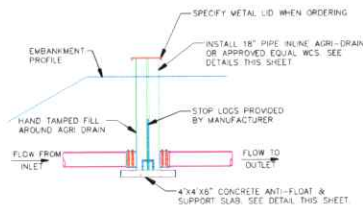
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	PROJECT NO. SD-332-1	DESIGNED BY: DCP
	JERRY MOENCH WETLAND	DRAWN BY: DCP
	DATE: 2/18/2025	SURVEYED BY: L.M.
	SHEET NO. 6 OF 7	CHECKED BY:
APPROVED BY:		

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MAR 21 2025

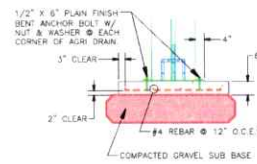
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INLINE WATER CONTROL STRUCTURE PROFILE VIEW
NOT TO SCALE

STRUCTURE INSTALLATION NOTES:

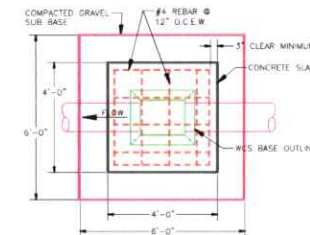
1. WATER CONTROL STRUCTURE BASE, INLET AND OUTLET PIPE SHALL BE PLACED ON A LEVEL SURFACE OF COMPACTED SOIL.
2. LEVEL STRUCTURE VERTICALLY PRIOR TO PLACING BACKFILL. BACKFILL AROUND STRUCTURE BY HAND IN 6" LIFTS. HAND TAMP ONLY.
3. COST OF STRUCTURE INSTALLATION SHALL BE PAID UNDER BID ITEM "WATER CONTROL STRUCTURES".
4. AGRI DRAIN PVC STOP LOSSES SHALL BE WATER TIGHT AND PROVIDED BY SUPPLIER.
5. AGRI DRAIN CORP. TELEPHONE NUMBER IS 1-800-232-4742. SPECIFY SIZE AND TYPE OF PIPE WHEN ORDERING. ORDER BASE (EXTENSION) TO ALLOW ANCHORING TO CONCRETE SLAB.
6. AGRI DRAIN WATER CONTROL STRUCTURE HAS A METAL BOTTOM BRACE THAT SHALL BE EMBEDDED INTO CONCRETE SLAB.
7. THE AGRI DRAIN WATER CONTROL STRUCTURES SHALL BE ORDERED WITH A METAL LID. THE STANDARD PLASTIC LID IS NOT ALLOWED.



WATER CONTROL STRUCTURE
CONCRETE SLAB PROFILE
SCALE: 1"=2'

CONCRETE SLAB INSTALLATION NOTES

1. CONTRACTOR SHALL PLACE THE CONCRETE SLAB ON A COMPACTED GRAVEL BASE. THIS COST SHALL BE INCIDENTAL TO THE BID ITEM "WATER CONTROL STRUCTURE".
2. SOME DEWATERING MAY BE NECESSARY TO FACILITATE PLACEMENT OF CONCRETE SLAB AND WATER CONTROL STRUCTURES. THIS COST SHALL BE INCIDENTAL TO THE BID ITEM "WATER CONTROL STRUCTURE".



WATER CONTROL STRUCTURE CONCRETE SLAB PLAN
SCALE: 1"=2'

STRUCTURAL CONCRETE NOTES

1. CONCRETE, $f_c = 4000$ psi
2. REINFORCEMENT, A615, GRADE 60
 $f_y = 60,000$ psi
3. ALL REINFORCING STEEL SHALL BE LAPPED IN ACCORDANCE WITH ACI STANDARD 318-99 (36 BAR DIAMETERS MINIMUM)

AGRI DRAIN INLINE WATER CONTROL STRUCTURE TABLE									
WCS	WCS HEIGHT (FT.)	WCS INVERT ELEVATION	UPSTREAM PIPE LENGTH (L1) (FT.)	DOWNSIDE PIPE LENGTH (L2) (FT.)	UPSTREAM PIPE INVERT ELEVATION	DOWNSIDE PIPE INVERT ELEVATION	UPSTREAM PIPE MATERIAL	DOWNSIDE PIPE MATERIAL	UPSTREAM PIPE END TREATMENT
2	4	1306.0	17	2	1302.0	1302.0	18" SCH. 40 PVC	18" SCH. 40 PVC	18" RAT GUARD (BAND TYPE)
3	6	1311.0	25	2	1305.0	1305.0	18" SCH. 40 PVC	18" SCH. 40 PVC	18" RAT GUARD (BAND TYPE)

GENERAL NOTES

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2. 2018 1 METER RESOLUTION AERIAL IMAGERY IS SHOWN.
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DUCKS UNLIMITED INC.	PROJECT NO. SD-332-1	DESIGNED BY: DCP
	JERRY MOENCH WETLAND	DRAWN BY: DCP
GREAT PLAINS REGIONAL OFFICE DATE: 2/18/2025	SHEET NO. 7 OF 7	APPROVED BY: [Signature]
AGRI-DRAIN DETAILS		CHECKED BY: [Signature]

102N 58W
Section: 28

102N 58W
Section: 27

102N 58W
Section: 26

261 ST

422 AVE

102N 58W
Section: 33

102N 58W
Section: 34

102N 58W
Section: 35

262 ST

101N 58W
Section: 04

10160011 Lower James

James

101N 58W
Section: 03

101N 58W
Section: 02

263 ST

101N 58W
Section: 09

101N 58W
Section: 10

101N 58W
Section: 11

264 ST

RECEIPT

WATER RIGHTS PROGRAM South Dakota Department of Agriculture and Natural Resources

Date March 31st, 2025

RECEIVED OF Jerry L Moench 26220 421st Avenue Alexandria SD 57311

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

Fee for Application for Permit No. <u>8946-3</u> to Appropriate Water, to construct and to put water to beneficial use	\$ <u>500.00</u>
Fee for Application for Permit No. _____ to Appropriate Water for Future use	\$ _____
Fee to retain Future Use Permit No. _____ after period of seven years.	\$ _____
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>8946-3</u>	\$ <u>200.00</u>
Fee for Filing Transfer Form _____	\$ _____
Fee for _____	\$ _____
Fee for Issuing New Well Driller's License No. _____	\$ _____
Fee for Renewal of Well Driller's License No. _____	\$ _____
Fee for Issuing Well Pump Installer's License No. _____	\$ _____
Fee for Renewal of Well Pump Installer's License No. _____	\$ _____
(Any Other Work Provided by Law)	
TOTAL	\$ <u>700.00</u>

By Mark Mauph
Chief Engineer

Mathiowetz, Adam (DENR)

From: Randy Meidinger <rmeidinger@ducks.org>
Sent: Tuesday, April 15, 2025 1:59 PM
To: Kilts, Whitney (DENR)
Cc: Mathiowetz, Adam (DENR)
Subject: RE: [EXT] Safety of Dams Review for Jerry Moench Project

Hi Whitney,

Please proceed with the water permit application process. Dylan Peterson is a SD registered engineer that works for Ducks Unlimited who created the draft project plans and will be completing the final plans for the project. I will forward Dylan the link to the Safety of Dam Rules to ensure he includes required information in his final project plans.

Do you know what specifically would need to be added to the draft plans to meet Safety of Dam Review Rules?

Thanks.

Randy



Conservation for Generations
www.ducks.org

Randy Meidinger
Regional Biologist - SD

Great Plains Region
34697 107th Street
Long Lake, SD 57457
605.380.0380
rmeidinger@ducks.org

From: Kilts, Whitney (DENR) <Whitney.Kilts@state.sd.us>
Sent: Tuesday, April 15, 2025 1:45 PM
To: Randy Meidinger <rmeidinger@ducks.org>
Cc: Mathiowetz, Adam (DENR) <Adam.Mathiowetz@state.sd.us>
Subject: Safety of Dams Review for Jerry Moench Project

You don't often get email from whitney.kilts@state.sd.us. [Learn why this is important](#)

CAUTION: - This email originated outside of Ducks Unlimited.

Greeting Randy,

I am looking at the water permit application for the Jerry Moench Project. It looks like both dams will also need plan and specifications review and approval under the Safety of Dams Rules.

(<https://danr.sd.gov/OfficeOfWater/WaterRights/Dams/DamSafety.aspx>). The draft engineering plans submitted with the application do not include all the design information required for a Safety of Dams review.

There are two options to proceed.

1. Proceed with the water permit application review and if approved the permit would carry a qualification that construction could not begin until the plans and specifications are approved under the Safety of Dams Rules.

There is no additional charge or public notice for the Safety of Dams review, this option is typically chosen when someone wants to make sure they get their water permit prior to investing the time and money needed to finish the engineering work on the dam.

2. Put the application on hold until the plans and specifications for the dams are complete, then have the review done for both the water permit application and the dam plan and specifications at the same time.

Which of these options would you like to proceed with in regard to this water permit application?

If you want to discuss these further, please feel free to call or email me.

Thanks,



Whitney Kilts

Office of Water-Water Rights Program

Department of Agriculture and Natural Resources

523 E. Capitol Ave. Pierre SD, 57501

605.773.3352

danr.sd.gov

Rodriguez, Rachel

From: Randy Meidinger <rmeidinger@ducks.org>
Sent: Friday, March 21, 2025 12:24 PM
To: Rodriguez, Rachel
Subject: RE: [EXT] Notice of Completion form
Attachments: SD-332-1 Jerry Moench.pdf; SD DANR Water Rights Application for Nonirrigation Permit_J_Moench-NEW DAM - 2-3.pdf; Project Wetland Map for Jerry Moench.pdf

Hi Rachel,

Thanks for forwarding me the notice of completion form. I'll get that completed and returned to you to get on the list for inspection of the completed projects in Faulk County.

I've also attached the water rights application material for the project in Hanson County that we discussed over the phone. I sent the permit application to the landowner, and he will be signing the document and mailing it directly to you with a check for \$700.

I've attached the draft engineering plans for this project along with a Google Earth map of the project site. The Google map shows yellow lines where the two new dams are approximately located with the associated inundated surface acres shaded in light blue. The pink lines show approximate locations of the dams built in 2001 under water rights permit 6277-3.

Please let me know if you received this info and if you need anything else from either me or the landowner to proceed with the application process.

Thank you.

Randy



Randy Meidinger
Regional Biologist - SD

Great Plains Region
34697 107th Street
Long Lake, SD 57457
605.380.0380
rmeidinger@ducks.org

From: Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>
Sent: Thursday, March 20, 2025 2:59 PM
To: Randy Meidinger <rmeidinger@ducks.org>
Subject: Notice of Completion form

You don't often get email from rachel.rodriguez@state.sd.us. [Learn why this is important](#)

CAUTION: - This email originated outside of Ducks Unlimited.

Good afternoon,

Per our conversation, attached is the notice of completion form. Feel free to reply to this email with the application we discussed.

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

**RECOMMENDATION OF ACTING CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 8946-3, Jerry L. Moench**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Acting Chief Engineer, Water Rights Program, Department of Agriculture and Natural Resources concerning Water Permit Application No. 8946-3, Jerry L. Moench, 26220 421st Avenue, Alexandria SD 57311.

The Acting Chief Engineer is recommending APPROVAL of Water Permit Application No. 8946-3 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 domestic water uses and water rights, 3) the proposed use is a beneficial use and 4) it is in the public interest as it pertains to matters of public interest within the regulatory authority of the Water Management Board with the following qualifications:

1. Water Permit No. 8946-3 authorizes two impoundments with a combined storage capacity of 85.4 acre-feet of water at the normal pool elevations and sufficient water annually to maintain the water level to the primary outlet elevations of 1,305.0 feet mean sea level (fmsl) and 1,310.0 fmsl (NAVD88).
2. Construction of a dam as defined by Administrative Rules of South Dakota (ARSD) 74:02:08:01(7) will need to comply with ARSD Chapter 74:02:08, Safety of Dams rules including approval of plans and specifications by the Chief Engineer prior to constructing the dam.
3. After an annual fill to the primary outlet elevations is satisfied, no unlawful impairment of this Permit exists by a water permit/right holder placing water to beneficial use under their water permit/right with a junior priority date.
4. Low flows as needed for downstream domestic use, including livestock water and prior water rights must be by-passed.
5. This Permit does not authorize inundation of a public right-of-way without approval from the pertinent governmental entity or inundation of private property without securing an easement or permission from the property owner.

See report on application for additional information.

Mark Mayer, PE
Director of Office of Water
June 2, 2025

Report to the Chief Engineer
On Water Permit Application No. 8946-3

Jerry L. Moench

May 30, 2025

Water Permit Application No. 8946-3 proposes to impound up to 85.4 acre-feet of runoff water by constructing two dams on a tributary to Bloom Creek. The dams are to be located in the SW $\frac{1}{4}$ NW $\frac{1}{4}$ and the SW $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 3 with the impounded water located in the N $\frac{1}{2}$ of Section 3; all in T101N-R58W. Water Permit Application No. 8946-3 requests impoundment of sufficient water to maintain the water level to outlet elevations of 1,305 (Dam #2) to 1,310 (Dam #3) feet above mean sea level (fmsl) (NAVD88), respectively. The water will be used for recreation and fish and wildlife purposes. The site of interest is located in Hanson County approximately five miles south of Alexandria, SD.

This project is related to an existing dam owned by the applicant authorized under Water Right No. 6277-3. Water Right No. 6277-3 authorizes the impoundment of 122 acre-feet of water in a dam in the S $\frac{1}{2}$ NW $\frac{1}{4}$ of Section 3-T101N-R58W to maintain the water level to any outlet elevation of 1,308 fmsl (no datum specified on license) for fish and wildlife propagation.

South Dakota Codified Law SDCL 46-2A-2 directs the Chief Engineer to make a recommendation to the Water Management Board on a water permit application. Pursuant to SDCL 46-2A-9, the Chief Engineer needs to consider four criteria when making a recommendation on whether a permit should be approved, approved with qualifications, denied, or deferred. They are: 1) there is a 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 domestic water uses and water rights, 3) the proposed use is beneficial use, and 4) it is in the public interest as it pertains to matters of public interest within the regulatory authority of the Water Management Board.

This report will analyze the best available information and make a recommendation to the Chief Engineer on the first two criteria the Chief Engineer needs to consider in making an official recommendation to the Water Management Board.

WATER SOURCE: Runoff to an unnamed tributary contributing to Bloom Creek, a tributary to the James River

Water Permit Application No. 8946-3 proposes to impound up to 85.4 acre-feet of runoff water by constructing two dams on a tributary to Bloom Creek. The application requests impoundment of sufficient water to maintain the water level to outlet elevations of 1,305 to 1,310 fmsl (NAVD88), respectively. For proposed dam #2, at the top of spillway elevation of 1,305 fmsl, approximately 21.5 acre-feet of water would be stored over 13.5 acres. For proposed dam #3, at the top of spillway elevation of 1,310 fmsl, approximately 64 acre-feet of water would be stored over 37.3 acres.

The watershed areas above the proposed dams were delineated using NRCS Engineering Tools for ArcGIS 10.3 (USDA-NRCS, 2024a). The elevation data used is an Interferometric Synthetic Aperture Radar (IfSAR) Digital Elevation Model (DEM) dataset with 5-meter grid spacing. A DEM is raster data of the bare ground (bare earth) topographic surface of the Earth excluding trees, buildings, and any other surface objects. Figure 1 displays the delineation of the contributing watershed areas above the proposed dams using IfSAR 5-meter spaced dataset. Within the Bloom Creek watershed, the contributing watershed to proposed dam #2 (labeled in Figure 1) was delineated to be approximately 488 acres. The contributing watershed to proposed dam #3 (labeled in Figure 1) was delineated to be approximately 3,908 acres.

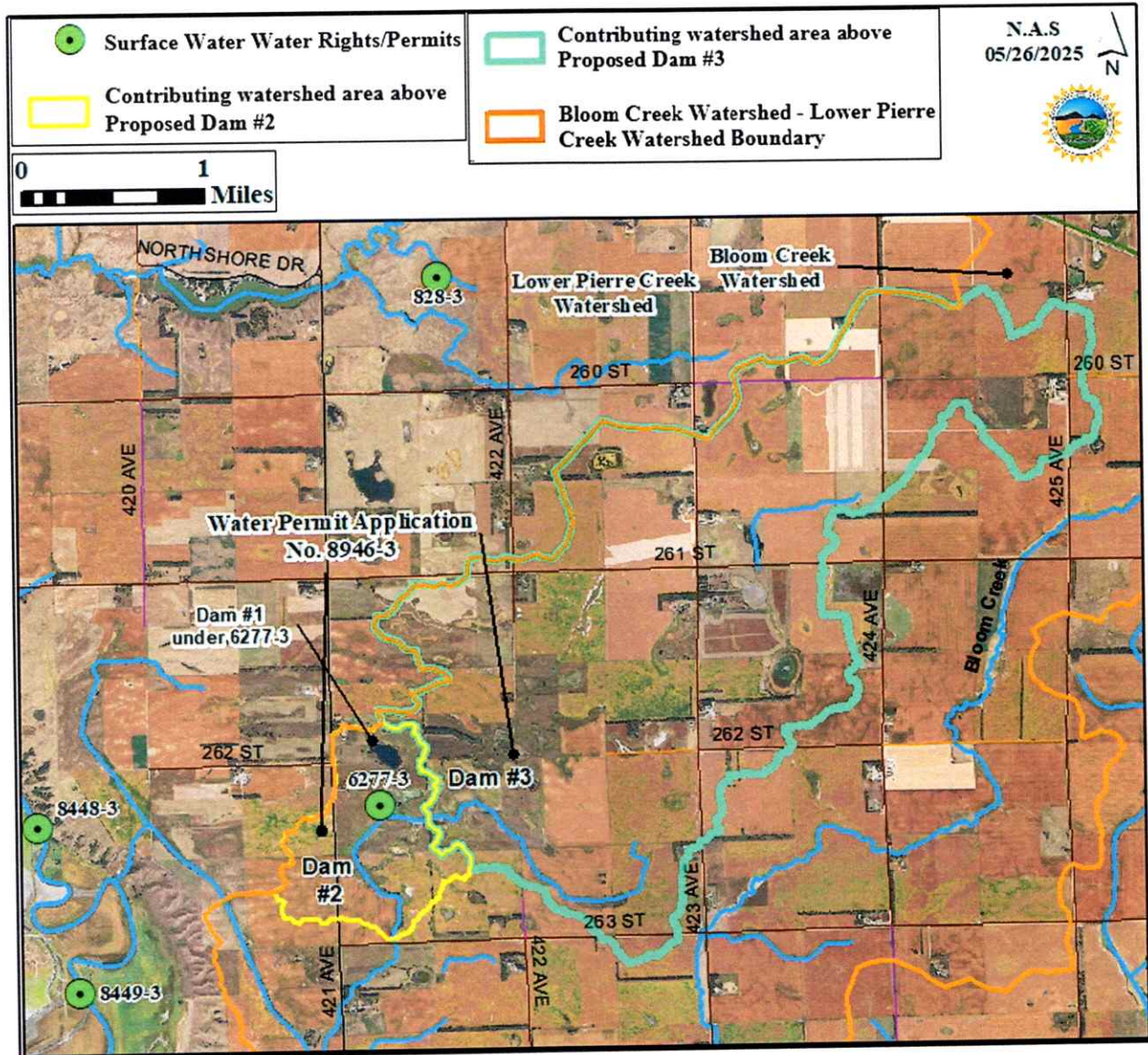


Figure 1: Map of the approximate watershed delineations above the proposed dams made using an IfSAR 5-meter spaced dataset (USGS, 2004)

The NRCS annual surface yield Method A for South Dakota was used to estimate annual surface yield for the drainage area upstream of the existing storage pond (USDA-NRCS, 1984). This NRCS method estimates the volume of runoff which can be expected for a twelve-month period at certain annual probabilities using contributing drainage area, soil cover complex number (runoff curve number, CN), and watershed location on an isogram map (USDA-NRCS, 1984).

The soil cover complex number, or the runoff curve number (CN) is necessary to determine the annual surface yield using the NRCS method (USDA-NRCS, 1984). The determination of the runoff curve number depends on the delineated watershed's soil and cover conditions (accessed from USDA-NRCS, 2025b), represented as hydrologic soil group, cover type, treatment, and hydrologic condition (USDA-NRCS, 1986). The general cover type for the delineated watersheds is cultivated land (without conservation treatment) (USDA-NRCS, 1984). Using USDA-NRCS Soil Survey, the contributing watersheds using 5-meter IfSAR data were imported to determine hydrologic soil groups (Figures 2 and 3) (SDGS, 2025; USDA-NRCS, 2025b). Using cover type and hydrologic soil group for the area of interest, a runoff curve number was determined by calculating the weighted average of hydrologic soil groups and their respective curve numbers and rounding to the nearest whole number. This method is shown on Tables 1 and 2. Runoff curve numbers range from 40 to 100 and a higher curve number means that more runoff occurs in the watershed (USDA-NRCS, 1986).

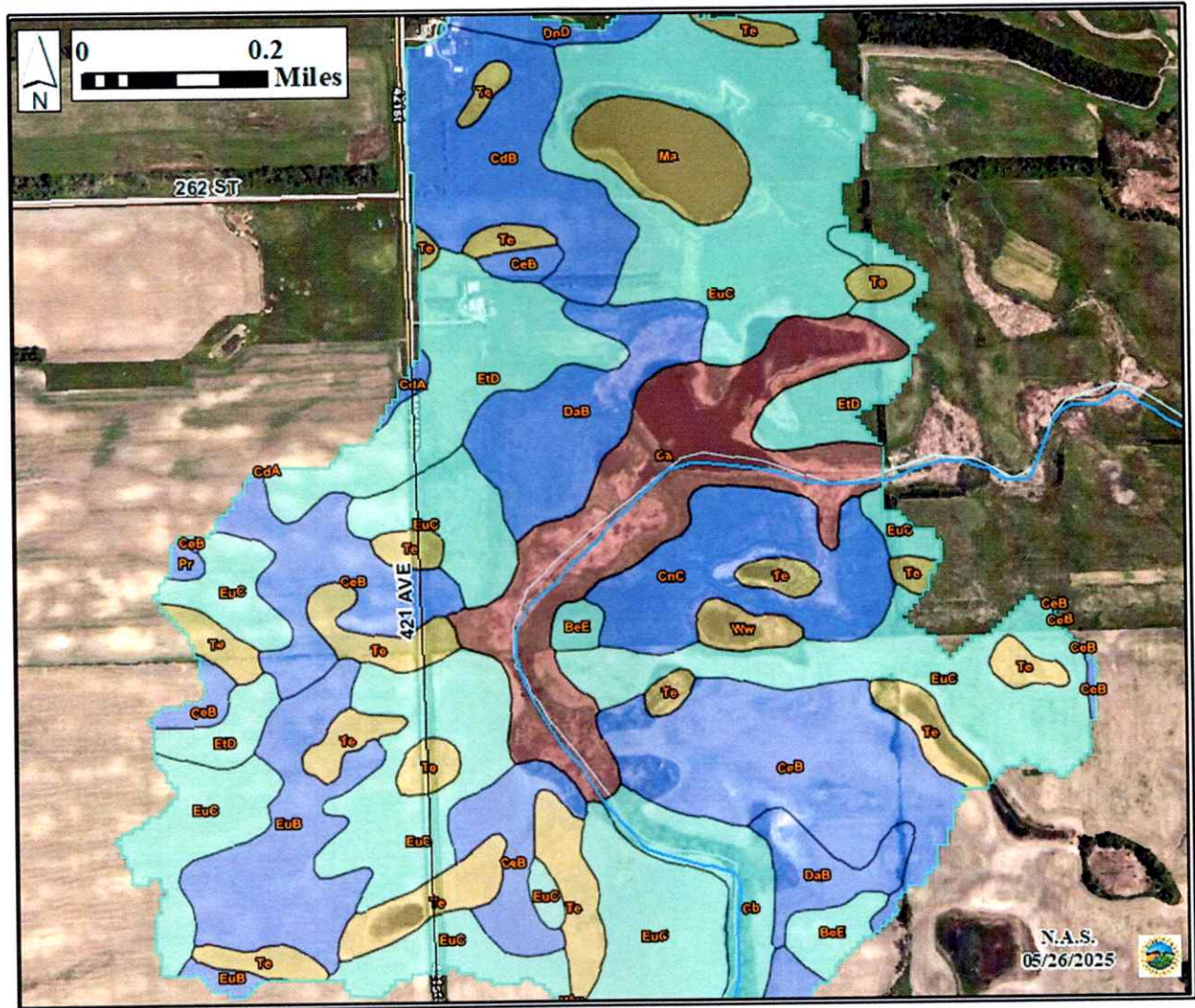


Figure 2: Contributing watershed above proposed dam #2 delineated from 5-meter spaced IfSAR data to determine hydrologic soil groups as determined by soil map units (USDA-NRCS, 2025b)

Table 1: Weighted average of hydrologic soil group ratios for cultivated land (without conservation treatment) used to determine curve number for proposed dam #2 (USDA-NRCS, 1984 and 2025b)

Soil Group	CN	Map Unit Symbol	Map Unit Name	Weight	Weighted Values
B	81	CdA, CdB, CeB, CNC...	Clarno-Bonilla loams	0.45	36.5
C	88	BeE, EtD, EuC ...	Betts-Ethan loams	0.55	48
				Weighted Average CN	84.9
				CN	85

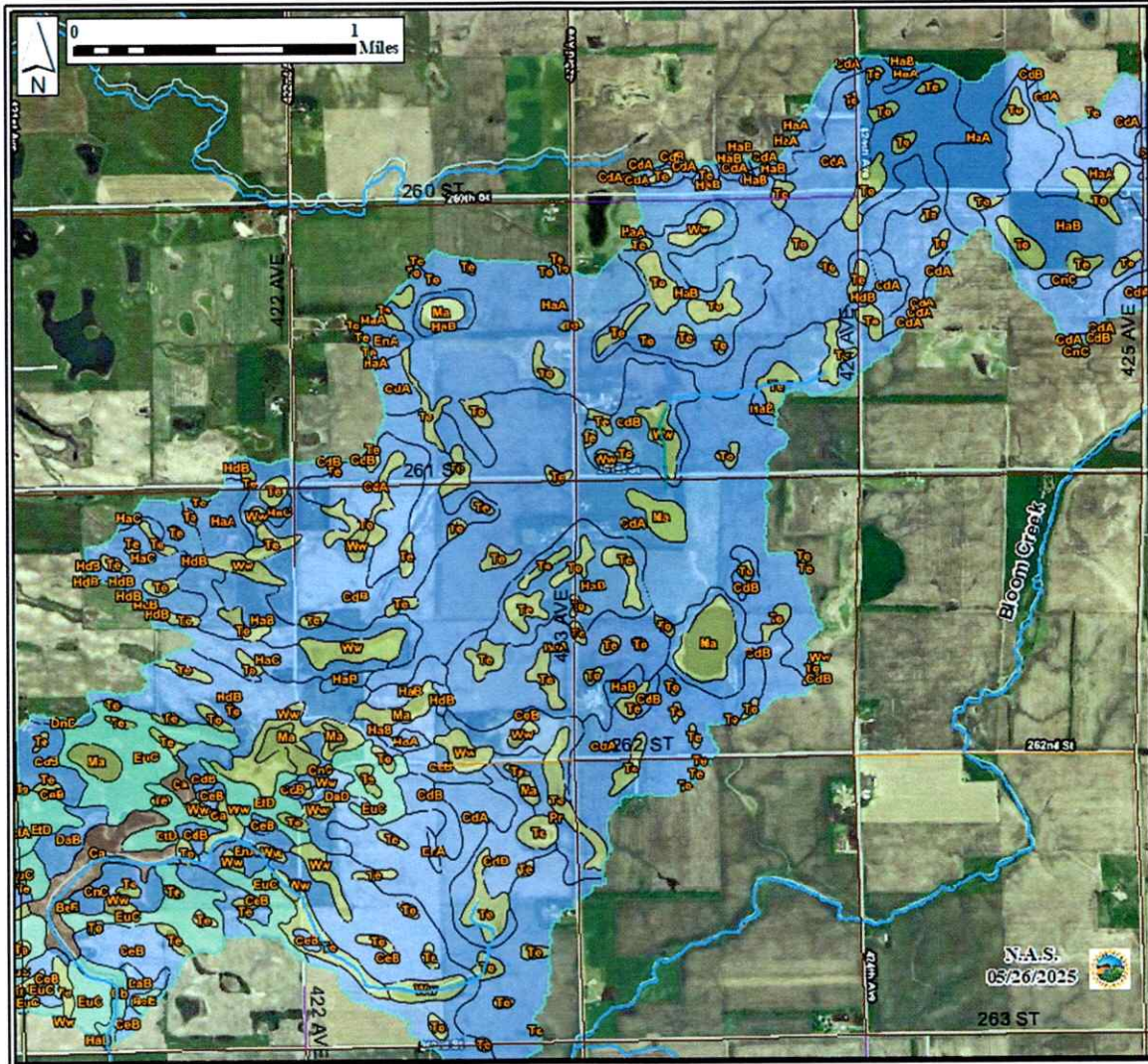


Figure 3: Contributing watershed above proposed dam #3 delineated from 5-meter spaced IfSAR data to determine hydrologic soil groups as determined by soil map units (USDA-NRCS, 2025b)

Table 2: Weighted average of hydrologic soil group ratios for cultivated land (without conservation treatment) used to determine curve number for proposed dam #3 (USDA-NRCS, 1984 and 2025b)

Soil Group	CN	Map Unit Symbol	Map Unit Name	Weight	Weighted Values
B	81	CdA, CdB, CeB, CNC...	Clarno-Bonilla loams	0.753	61
C	88	BeE, EtD, EuC ...	Betts-Ethan loams	0.247	21.7
				Weighted Average CN	82.7
				CN	83

The NRCS method is used to determine the volume of runoff which can be expected for a twelve-month period. For example, an 0.8 probability of occurrence has an 80% change of occurring each year. The annual surface yields for the drainage area at certain probabilities are displayed in Tables 3 and 4.

Table 3: Estimated Total Annual Yield of Surface Runoff (USDA-NRCS, 1984) using an estimated watershed area of approximately 488 acres using the 5-meter IfSAR dataset and runoff curve number of 85 (SDGS, 2024; USDA-NRCS, 1984)

Probability of Occurrence	Inches of Annual Yield per Acre	Annual Yield (Acre-feet)
0.8	0.9	37
0.5	1.7	69
0.2	3.6	146
0.1	5.2	211

Table 4: Estimated Total Annual Yield of Surface Runoff (USDA-NRCS, 1984) using an estimated watershed area of approximately 3,908 acres using the 5-meter IfSAR dataset and runoff curve number of 83 (SDGS, 2024; USDA-NRCS, 1984)

Probability of Occurrence	Inches of Annual Yield per Acre	Annual Yield (Acre-feet)
0.8	0.7	228
0.5	1.4	456
0.2	3.1	1,010
0.1	4.6	1,498

Water Permit Application No. 8946-3 proposes to capture runoff water that would otherwise contribute to Bloom Creek to be impounded in two proposed dams. To determine the probability of occurrence for the amount water in the catchment, the total runoff from Tables 3 and 4 were plotted against the probability of occurrence, shown in Figures 4 and 5. The closer an r square value is to 1, the data is better correlated, and there is more reliability in a trendline. Solving the trendline for a volume of 21.5 acre-feet and a runoff curve number of 85 (Figure 4), results in the estimated annual probability of the availability of annual yield fulfilling the proposed volume likely to occur around nine out of every 10 years (for proposed dam #2). Solving the trendline for a volume of 64 acre-feet and a runoff curve number of 83 (Figure 5), results in the estimated annual probability of the availability of annual yield fulfilling the proposed volume likely to occur at least nine out of every 10 years (for proposed dam #3). It should be noted that the drainage area above dam #3 has the potential to contribute runoff to dam #2.

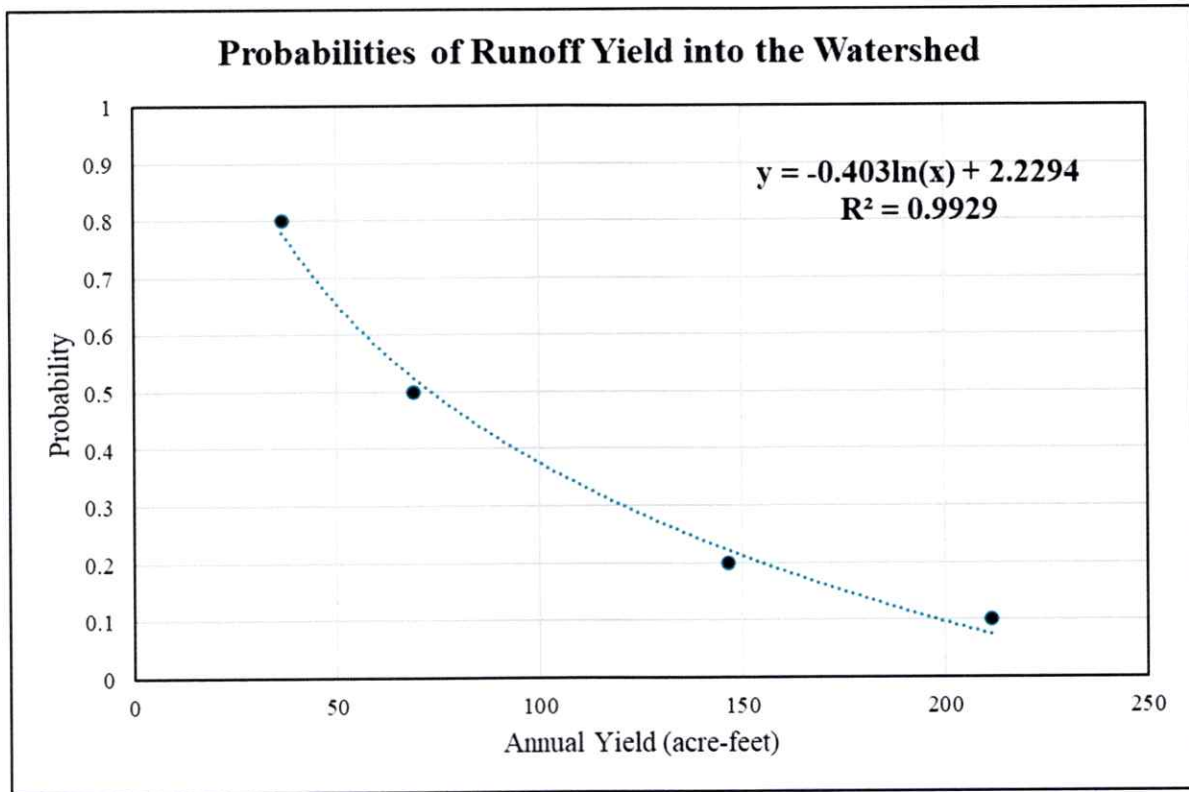


Figure 4. Plot of annual yield for proposed dam #2 from runoff against the probability of occurrence. Note that this plot and trendline is only applicable for this specific watershed location and area

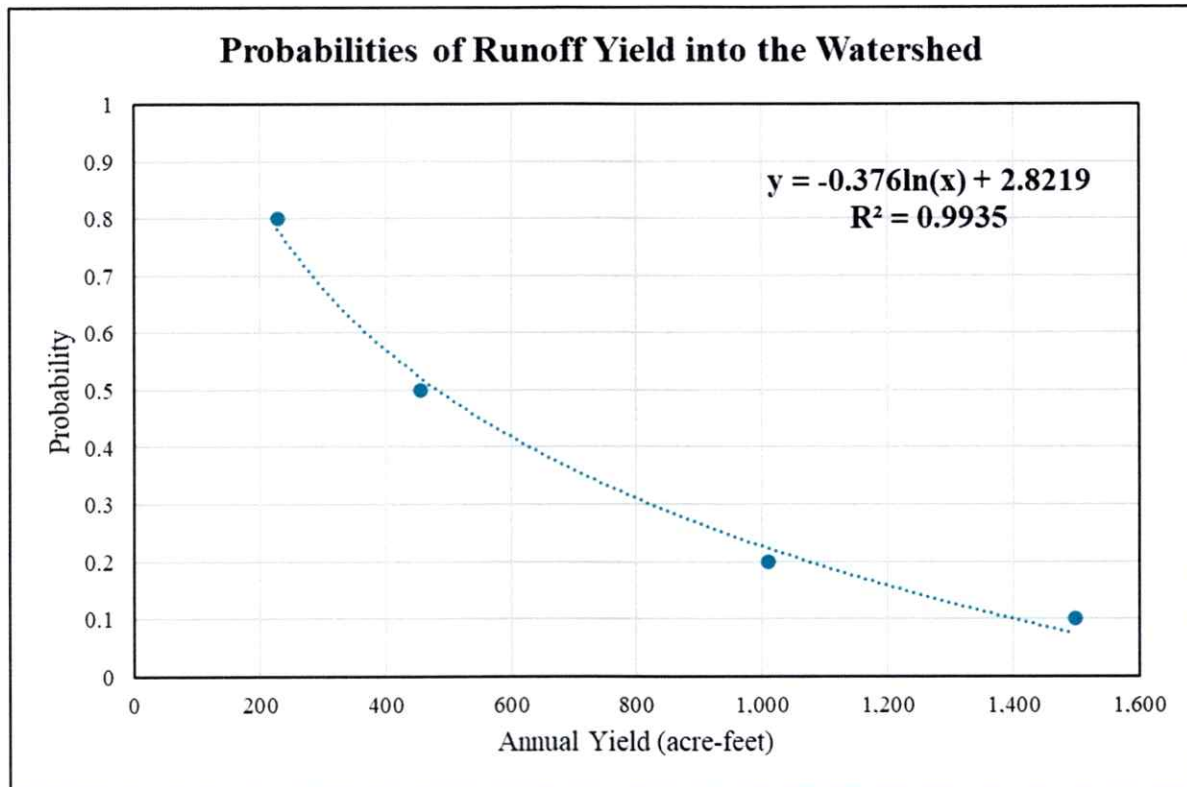


Figure 5. Plot of annual yield for proposed dam #3 from runoff against the probability of occurrence. Note that this plot and trendline is only applicable for this specific watershed location and area

The application indicated the intent is to store captured runoff that would otherwise contribute to Bloom Creek in two proposed dams. Annual water losses from impoundments are mainly due to evaporation and seepage. The amount of surface runoff that is available for the two proposed dams will vary from year to year depending on the quantity and temporal distribution of precipitation as well as evaporative loss directly from the reservoir surfaces.

It has been found that evaporation from a shallow lake, wet soil, or other moist natural surfaces is roughly 70% of the evaporation from a Class A pan for the same conditions (Farnsworth and Thompson, 1982). Near the proposed dams, the estimated average pan evaporation rate for April through October is approximately 48 inches/year, and for November through March is approximately 9.5 inches/year, for a total of 57.5 inches/year (4.79 feet/year) in pan evaporation (Poudyal, 2006). To account for evaporation from natural surfaces, 70% of that rate is approximately 40.25 inches/year (3.35 feet/year). Estimated loss due to seepage is not available since this is not known until after years of operation and is typically not measured (Kilts, 2022).

From 1895 to 2024, Hanson County received approximately 22.7 inches of precipitation per year (1.89 feet/year) on average (NOAA, 2025). The net annual loss between direct precipitation and evaporation is approximately 1.46 feet. Applying the estimated annual evaporation loss and direct precipitation to the surface areas of the dams (13.5 acres and 37.3 acres) at the primary spillway elevations, the annual loss to each dam is approximately 19.7 acre-feet and 54.4 acre-feet, respectively. On most years, the estimated surface runoff into the proposed dams will likely be enough to offset the annual net losses due to evaporation.

Review of Existing Water Rights, Discussion, Water Availability, and Recommendation

There is one water right/permit authorized to appropriate water from the unnamed tributary contributing to Bloom Creek that this application proposes to capture runoff from. This water right is Water Right No. 6277-3 which is held by the applicant and authorizes the storage of 122 acre-feet of water in an adjacent (to the proposed dams) existing storage pond (Water Rights, 2025a).

For proposed dam #2, if 37 acre-feet of water is expected to be available for capture around eight out of every ten years, while assuming the 122 acre-feet of water that authorized to be impounded on this unnamed tributary by Water Right No. 6277-3 was captured within proposed dam #3's contributing watershed (as it exists in that contributing upstream watershed), and 19.7 acre-feet of water expected to be lost to evaporation, this would leave approximately 17.3 acre-feet of water remaining available for capture eight out of every ten years, which is slightly below the applicants request of 21.5 acre-feet of water to fill this dam at the spillway capacity. This indicates water would be available on most years on a ten-year scale, but not all to fully supply the proposed request.

For proposed dam #3, if 228 acre-feet of water is expected to be available for capture around eight out of every ten years, and 122 acre-feet of water is authorized to be impounded on this unnamed tributary by Water Right No. 6277-3, and 54.5 acre-feet of water expected to be lost to evaporation, this would leave approximately 51.5 acre-feet of water remaining available for capture eight out of every ten years, which is slightly below the applicants request of 64 acre-feet of water to fill this dam at the spillway capacity. This indicates water would be available on most years on a ten-year scale, but not all to fully supply the proposed request.

Given the lack of water rights/permits on the unnamed tributary (Water Rights, 2025a), and the lack of complaints for appropriative and domestic water uses (Water Rights, 2025b), if Water Permit Application No. 8946-3 is approved, it is not expected to unlawfully impair existing downstream appropriative uses or domestic uses.

Safety of Dams Administrative Rule of South Dakota (ARSD) Chapter 74:02:08

Dams to which the South Dakota Safety of Dams Rules apply are defined in ARSD 74:02:07:01(7) as,

“an artificial barrier, including appurtenant works, which impounds or diverts water and which is 25 feet or more in height from the natural bed of the stream or watercourse measured at the downstream toe of the barrier or from the lowest elevation of the outside limit of the barrier, if it is not across a stream channel or watercourse, to the maximum water storage elevation or has an impounding capacity at maximum water storage elevation of 50 acre-feet or more. A barrier is not considered a dam for the purpose of this chapter if the height does not exceed 6 feet regardless of storage capacity or if the storage capacity at maximum water storage elevation does not exceed 15 acre-feet regardless of height.”

Based on the preliminary plans submitted with the application, dam #2 is proposed to have a height of 6.1 feet and a top of dam storage of 71.1 acre-feet and dam #3 is proposed to have a height of 8.3 feet and a top of dam storage of 201.1 acre-feet. Based on these plans, the two proposed dams would meet the definition of a dam under ARSD 74:02:07:01(7) and would be subject to the South Dakota's Safety of Dams Rules.

Plans and specifications for the proposed two dams were not reviewed as part of the permitting process for this Application No. 8946-3. Therefore, a qualification to this application is recommended that, no construction on the dams may begin until the final plans have been reviewed under the Safety of Dams Chapter 74:02:08 requirements.

CONCLUSIONS:

1. Water Permit Application No. 8946-3 proposes to impound up to 85.4 acre-feet of runoff water by constructing two dams on a tributary to Bloom Creek. The application requests impoundment of sufficient water to maintain the water level to outlet elevations of 1,305 to 1,310 fmsl, respectively. The water will be used for recreation and fish and wildlife purposes. The site of interest is located in Hanson County approximately five miles south of Alexandria, SD.
2. This project is related to an existing dam owned by the applicant authorized under Water Right No. 6277-3. Water Right No. 6277-3 authorizes the impoundment of 122 acre-feet of water in a dam in the S $\frac{1}{2}$ NW $\frac{1}{4}$ of Section 3-T101N-R58W to maintain the water level to any outlet elevation of 1,308 fmsl (likely NAVD88) for fish and wildlife propagation.
3. Construction on the proposed dams cannot begin until the plans and specifications are approved pursuant to the Safety of Dams Rules in Chapter 74:02:08 or the dams are redesigned to not meet the definition of a dam in ARSD 74:02:07:01(7).
4. For proposed dam #2, using a runoff curve number of 85 for cultivated land (without conservation treatment), the annual probability of the availability of 21.5 acre-feet per year is likely to occur around nine out of every 10 years.
5. For proposed dam #3, using a runoff curve number of 83 for cultivated land (without conservation treatment), the annual probability of the availability of 64 acre-feet per year is likely to occur at least nine out of every 10 years.
6. Applying the estimated annual evaporation loss and direct precipitation to the surface areas of the dams (13.5 acres and 37.3 acres) at the primary spillway elevations, the annual loss to each dam is approximately 19.7 acre-feet and 54.4 acre-feet, respectively.
7. Using NRCS Method A to estimate the annual runoff volumes expected from the upstream contributing watershed areas and incorporating direct precipitation and

evaporative losses to the dam surface areas, there is a reasonable probability that water will be available most years to satisfy the annual request of 85.4 acre-feet of water.

8. Approval of this application is not expected to unlawfully impair existing water rights/permits, location notices, or domestic uses.
9. Low flows as needed for downstream domestic use including livestock watering and prior water rights must be bypassed.

Nakaila Steen

Nakaila Steen
Natural Resources Engineer III
SD DANR - Water Rights Program

References

- Farnsworth, R.K. and Thompson, E.S. 1982. Mean Monthly, Seasonal, and Annual Pan Evaporation for the United States. National Oceanic and Atmospheric Administration, U.S. Department of Commerce. Technical Report NWS 34.
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- NOAA, 2025. NOAA National Centers for Environmental information, Climate at a Glance: County Time Series, published May 2025, retrieved on May 23, 2025.
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- USGS, 2004. National Hydrography Dataset. United States Geological Survey. Dept. of the Interior, Reston, Virginia. U.S.
- Water Rights, 2025a. Water Right/Permit Files, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, South Dakota.
- Water Rights, 2025b. County Files, SD DANR-Water Rights Program, Joe Foss Bldg, Pierre, SD.



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

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

June 3, 2025

Jerry L. Moench
26220 421st Avenue
Alexandria SD 57311

Dear Mr. Moench:

Water Permit Application No. 8946-3 for recreation, and fish and wildlife use have been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to The Special printed at Salem SD (Ph # 605 425-2361) and the Argus Leader printed at Sioux Falls SD (see attachment for contact number). You will need to contact the newspapers and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Acting 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 newspapers to authorize publication of your Notice and to arrange for payment. Early contact with the papers can eliminate delays. Upon receiving authorization from you, the publishers have been instructed to publish your notice. The newspapers have 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,

Rachel Rodriguez

Rachel Rodriguez
Water Rights Program
(605) 773-3352

enclosures

NOTE: If you plan to contest any part of the Acting 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.

NOTICE OF APPLICATION NO. 8946-3 to Appropriate Water

Notice is given that Jerry L. Moench, 26220 421st Avenue, Alexandria SD 57311, has filed an application for a water permit to impound 85.4 acre-feet of water of runoff by constructing two dams on a tributary to Bloom Creek. The dams are to be located in the SW 1/4 NW 1/4, and the SW 1/4 NE 1/4 Section 3 with water impounded in the N 1/2 Section 3; all in T101N-R58W. This application requests impoundment of sufficient water to maintain the water level to outlet elevations of 1305.0 and 1310.0 feet mean sea level, respectively. The water will be used for recreation, and fish and wildlife purposes. This site is located approximately 5 miles south of Alexandria SD.

Pursuant to SDCL 46-2A-2, the Acting Chief Engineer recommends APPROVAL of Application No. 8946-3 with qualifications because 1) unappropriated water is available, 2) existing domestic water uses and water rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest as it pertains to matters within the regulatory authority of the Water Management Board. The Acting Chief Engineer's recommendation with qualifications, the application, and staff report are available at <https://danr.sd.gov/public> or contact Ron Duvall for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing this application or recommendation shall allege that the application, upon approval, will cause injury to the person that is unique from any injury suffered by the public in general. The injury must concern a matter either within the regulatory authority found in SDCL 46-2A-9 for approval or denial of the application, or other matter concerning the application within the regulatory authority of the board to act upon as defined by SDCL 46-2-9 and 46-2-11, or both. Any person meeting the petitioner requirements and wishing to be a party of record in a contested case hearing shall file a written petition to oppose the application with BOTH the applicant and Acting Chief Engineer. A petition opposing the application shall be filed on a form provided by the Acting Chief Engineer. The petition form is available online at <https://danr.sd.gov/public> or by contacting the Acting Chief Engineer. The Acting Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501" or call (605) 773-3352. The applicant's mailing address is given above. If contesting the Acting Chief Engineer's recommendation, the applicant shall also file a petition. A petition filed by either an interested person or the applicant must be filed by June 23, 2025.

The petition shall include a statement describing the unique injury upon approval of the application on the petitioner, the petitioner's reasons for opposing the application, and the name and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

Any interested person may file a comment on the application with the Acting Chief Engineer. The comment shall be filed on a form provided by the Acting Chief Engineer and is available online at <https://danr.sd.gov/public> or by calling (605) 773-3352 or writing the Acting Chief Engineer at the address provided above. Filing a comment does not make the commenter a party of record or a participant in any hearing that may be held. Any comment must be filed by June 23, 2025.

If the applicant does not contest the recommendation of the Acting Chief Engineer and no petition to oppose the application is received, the Acting Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. 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.

Published once at the total approximate cost of_

Rodriguez, Rachel

From: Rodriguez, Rachel
Sent: Monday, June 2, 2025 10:29 AM
To: legals@argusleader.com
Subject: 8946-3 Jerry Moench - Public Notice
Attachments: 8946-3 public.short_final.docx; FORM8.FRM.doc

Attached is a notice to be published on June 12, 2025.

Jerry L. Moench, 26220 421st Avenue, Alexandria SD 57311, 605-310-2222, jmoench8@yahoo.com has been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP to the Water Rights Program, 523 E Capitol Ave, Pierre SD 57501.

Let me know if you have questions. Please acknowledge receipt of this email.

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us



Rodriguez, Rachel

From: Rodriguez, Rachel
Sent: Monday, June 2, 2025 10:28 AM
To: The Special / Troy Schwans
Subject: 8946-3 Jerry Moench - Public Notice
Attachments: 8946-3 public.short_final.docx; FORM8.FRM.doc

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Please send the affidavit or return the attached Proof of Publication form ASAP to the Water Rights Program, 523 E Capitol Ave, Pierre SD 57501.

Let me know if you have questions. Please acknowledge receipt of this email.

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us





Order Confirmation

Not an Invoice

Account Number:	1536500
Customer Name:	Jerry L Moench
Customer Address:	Jerry L Moench 26220 421st AVE Alexandria SD 57311-7118
Contact Name:	Jerry Moench
Contact Phone:	
Contact Email:	jmoench8@yahoo.com
PO Number:	

Date:	06/02/2025
Order Number:	11378573
Prepayment Amount:	\$ 0.00

Column Count:	1.0000
Line Count:	166.0000
Height in Inches:	18.1900

Print

Product	#Insertions	Start - End	Category
SFA Sioux Falls Argus Leader	1	06/12/2025 - 06/12/2025	Public Notices
SFA argusleader.com	1	06/12/2025 - 06/12/2025	Public Notices

As an incentive for customers, we provide a discount off the total order cost equal to the 3.99% service fee if you pay with Cash/Check/ACH. Pay by Cash/Check/ACH and save!

Total Cash Order Confirmation Amount Due	\$58.14
Tax Amount	\$0.00
Service Fee 3.99%	\$2.32
Cash/Check/ACH Discount	-\$2.32
Payment Amount by Cash/Check/ACH	\$58.14
Payment Amount by Credit Card	\$60.46

Order Confirmation Amount

\$58.14

Rodriguez, Rachel

From: Gannett Legals Public Notices 4 <ganlegpubnotices4@gannett.com>
Sent: Monday, June 2, 2025 4:42 PM
To: Rodriguez, Rachel; jmoench8@yahoo.com
Subject: RE: [EXT] 11378573 8946-3 Jerry Moench - Public Notice
Attachments: 11378573.pdf

Good Afternoon,

Please find your order confirmation and proof of ad attached.

Your ad is set to run in the Argus Leader on June 12. The order cost is \$58.14 which includes an affidavit, that will be mailed to you 7-10 business days after the last day of the ad printing.

All orders are subject to a non-refundable 3.99% service fee. As an incentive for customers, we provide a discount off the order cost equal to the 3.99% service fee if you pay by ACH. Pay by ACH and Save! Final order cost provided at time of payment and via a receipt.

Your notice is scheduled to run per your request and will publish unless you reply to this email requesting changes or to cancel.

If you would like to utilize our online self-serve ad portal to place your legal notices in the future, please visit your local publication's online classifieds legal section. There, you can conveniently submit and immediately preview your notices anytime, 24/7.

Thank you!

Brittany Grady
Public Notice Representative



Office: 844-254-5287

From: Rodriguez, Rachel <Rachel.Rodriguez@state.sd.us>
Sent: Monday, June 2, 2025 10:29 AM
To: SFA-Legals mbx <allegals@gannett.com>
Subject: 11378573 8946-3 Jerry Moench - Public Notice

Attached is a notice to be published on June 12, 2025.

Jerry L. Moench, 26220 421st Avenue, Alexandria SD 57311, 605-310-2222, jmoench8@yahoo.com has been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP to the Water Rights Program, 523 E Capitol Ave, Pierre SD 57501.

Let me know if you have questions. Please acknowledge receipt of this email.

Thank you,

AFFIDAVIT OF PUBLICATION

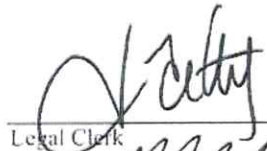
Jerry Moench
Jerry L Moench
26220 421st AVE
Alexandria SD 57311-7118

STATE OF WISCONSIN, COUNTY OF BROWN

The Argus Leader, a daily newspaper published in the city of Sioux Falls, Minnehaha County, State of South Dakota, and personal knowledge of the facts herein state and that the notice hereto annexed was Published in said newspapers in the issue:

06/12/2025

and that the fees charged are legal.
Sworn to and subscribed before on 06/12/2025



Legal Clerk



Notary, State of WI, County of Brown

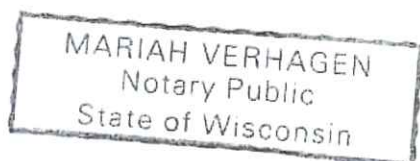
8-25-26

My commission expires

Publication Cost:	\$58.14	
Tax Amount:	\$0.00	
Payment Cost:	\$58.14	
Order No:	11378573	# of Copies:
Customer No:	1536500	1
PO #:		

THIS IS NOT AN INVOICE!

Please do not use this form for payment remittance



NOTICE OF
APPLICATION NO. 8946-3
to Appropriate Water

Notice is given that Jerry L. Moench, 26220 421st Avenue, Alexandria SD 57311, has filed an application for a water permit to impound 85.4 acre-feet of water of runoff by constructing two dams on a tributary to Bloom Creek. The dams are to be located in the SW 1/4 NW 1/4, and the SW 1/4 NE 1/4 Section 3 with water impounded in the N 1/2 Section 3; all in T101N-R58W. This application requests impoundment of sufficient water to maintain the water level to outlet elevations of 1305.0 and 1310.0 feet mean sea level, respectively. The water will be used for recreation, and fish and wildlife purposes. This site is located approximately 5 miles south of Alexandria SD.

Pursuant to SDCL 46-2A-2, the Acting Chief Engineer recommends APPROVAL of Application No. 8946-3 with qualifications because 1) unappropriated water is available, 2) existing domestic water uses and water rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest as it pertains to matters within the regulatory authority of the Water Management Board. The Acting Chief Engineer's recommendation with qualifications, the application, and staff report are available at <https://danr.sd.gov/public> or contact Ron Duvall for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing this application or recommendation shall allege that the application, upon approval, will cause injury to the person that is unique from any injury suffered by the public in general. The injury must concern a matter either within the regulatory authority found in SDCL 46-2A-9 for approval or denial of the application, or other matter concerning the application within the regulatory authority of the board to act upon as defined by SDCL 46-2-9 and 46-2-11, or both. Any person meeting the petitioner requirements and wishing to be a party of record in a contested case hearing shall file a written petition to oppose the application with BOTH the applicant and Acting Chief Engineer. A petition opposing the application shall be filed on a form provided by the Acting Chief Engineer. The petition form is available online at <https://danr.sd.gov/public> or by contacting the Acting Chief Engineer. The Acting Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501" or call (605) 773-3352. The applicant's mailing address is given above. If contesting the Acting Chief

Engineer's recommendation, the applicant shall also file a petition. A petition filed by either an interested person or the applicant must be filed by June 23, 2025.

The petition shall include a statement describing the unique injury upon approval of the application on the petitioner, the petitioner's reasons for opposing the application, and the name and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

Any interested person may file a comment on the application with the Acting Chief Engineer. The comment shall be filed on a form provided by the Acting Chief Engineer and is available online at <https://danr.sd.gov/public> or by calling (605) 773-3352 or writing the Acting Chief Engineer at the address provided above. Filing a comment does not make the commenter a party of record or a participant in any hearing that may be held. Any comment must be filed by June 23, 2025.

If the applicant does not contest the recommendation of the Acting Chief Engineer and no petition to oppose the application is received, the Acting Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. 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.

Published June 12, 2025 at the total approximate cost of \$58.14 and may be viewed free of charge at www.sdpublicnotices.com.

Form 8

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)

County of McCook/Hanson) SS

I, Troy Schwans

certify that the attached printed Notice was taken

from the Special

printed and published in Salem

County of McCook and

state of South Dakota. The notice was published

in the newspaper on the following date:

June 12, 2025

Cost of Printing \$ 47.60

Troy Schwans
(Signature)

Editor
(Title)

6/12/25
(Date Signed)

PUBLIC NOTICE NOTICE OF APPLICATION NO. 8946-3 to Appropriate Water

Notice is given that Jerry L. Moench, 26220 421st Avenue, Alexandria SD 57311, has filed an application for a water permit to impound 85.4 acre-feet of water of runoff by constructing two dams on a tributary to Bloom Creek. The dams are to be located in the SW 1/4 NW 1/4, and the SW 1/4 NE 1/4 Section 3 with water impounded in the N 1/2 Section 3; all in T101N-R58W. This application requests impoundment of sufficient water to maintain the water level to outlet elevations of 1305.0 and 1310.0 feet mean sea level, respectively. The water will be used for recreation, and fish and wildlife purposes. This site is located approximately 5 miles south of Alexandria SD.

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petition filed by either an interested person or the applicant must be filed by June 23, 2025.

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Any interested person may file a comment on the application with the Acting Chief Engineer. The comment shall be filed on a form provided by the Acting Chief Engineer and is available online at <https://danr.sd.gov/public> or by calling (605) 773-3352 or writing the Acting Chief Engineer at the address provided above. Filing a comment does not make the commenter a party of record or a participant in any hearing that may be held. Any comment must be filed by June 23, 2025.

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Published once at the total approximate cost of \$47.60 and may be viewed free of charge at www.sdpublicnotices.com.

6-12
348009

RECEIVED

JUN 26 2025

OFFICE OF
WATER

Rodriguez, Rachel

From: Rodriguez, Rachel
Sent: Tuesday, June 3, 2025 8:06 AM
To: jmoench8@yahoo.com
Subject: 8946-3 Jerry Moench - Public Notice
Attachments: 8946-3 Rec.pdf; 8946-3 Ltr.pdf; 8946-3 PubNotice.pdf; ArgusLeader Info.pdf

Good morning,

Attached is a copy of the report, acting chief engineer's recommendation, and information regarding the public notice for your water permit application. As stated in the letter, please contact the paper(s) as soon as possible to authorize publication and arrange for payment. This information is also being mailed to you today.

Let me know if you have questions. Please acknowledge receipt of this email.

Thank you,

Rachel Rodriguez
DANR | Program Assistant
Rachel.Rodriguez@state.sd.us





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

JUL 21 2025

Jerry L. Moench
26220 421st Avenue
Alexandria SD 57311

Dear Mr. Moench:

Enclosed is Water Permit No. 8946-3 authorizing construction of the 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,

Mark Mayer, PE
Director of Office of Water

enclosures

South Dakota Department of Agriculture and Natural Resources

Water Resource Enhancement or Restoration

Project Application Form

(ARSD 74:51:01:60)

Email completed applications to DANRmail@state.sd.us Attn: Water Quality

1. Name and Address of Responsible Party:

Randy Meidinger on behalf of Ducks Unlimited - c/o Jerry Moench - 34697 107th St., Long Lake, SD 57457

2. Project goals and purpose:

The goals and purpose of the proposed project is to restore and enhance hydrology to previously drained palustrine wetlands that occur along a manipulated drainage channel which reduces amount and duration of water each palustrine basin can hold. The restored and enhanced wetlands will provide improved aquatic habitat for an abundance of wildlife species and will also create additional opportunities for recreational activities in this grassland pasture.

3. Project description:

Two earthen dams are proposed to be constructed across the upper reaches of a finger drainage for Bloom Creek flowing through pasture land. Various seasonal wetland basins that occur along this drainage have been artificially drained in the past via open excavated ditches. The constructed dams would serve to restore and enhance hydrology to multiple smaller drained wetlands to create two larger wetlands. These new dams would be two of three dams along this finger drainage in the north half of section 3. One dam was built in 2001. The two new dams would restore a complex of wetlands and would provide the ability for water level management for each wetland for recreation and wildlife benefits.

4. Legal location of project, include maps as attachments:

Section 3 Township 101N Range 58W County Hanson

5. Bodies of water affected:

Multiple temporary and seasonal wetlands along a feeder branch to Bloom Creek

6. Estimated date and duration of project:

Construction planned for fall of 2025, lasting about 1 month

7. Methods implemented to minimize pollution:

Temporary sediment barriers will be installed on downward-sloping areas where and if any ground disturbance for this project occurs within the direct drainage path to the creek channel.

8. Other alternatives available and reasons for rejection:

South Dakota Department of Agriculture and Natural Resources

Water Resource Enhancement or Restoration

Project Application Form

(ARSD 74:51:01:60)

9. Name and label of pesticide product to be used (if applicable):

N/A

10. Application rate and methods of pesticide product to be used (if applicable):

N/A

11. Application methods of pesticide product to be used (if applicable):

N/A

12. Surfactant toxicity information of pesticide product (if available):

N/A

13. Disposition and quantity of accumulated/dredged sediment (if applicable):

N/A

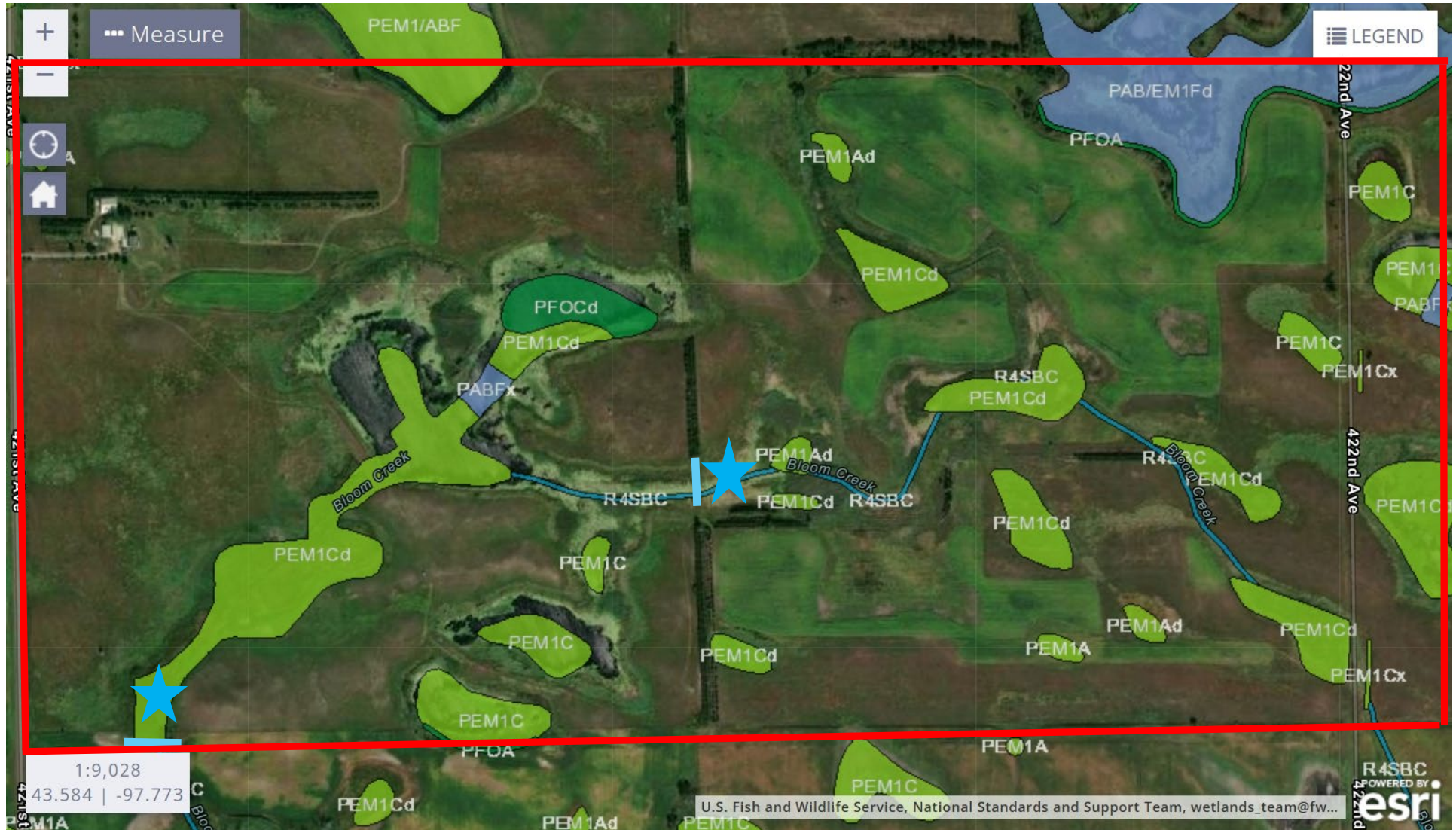
14. Equipment used to remove accumulated sediment (if applicable):

N/A

South Dakota Department of Game, Fish, and Parks authorization under SDCL 41-13-1, 41-13-2, and 41-12-13 for application of registered pesticides (if applicable, GFP Approval #):

N/A

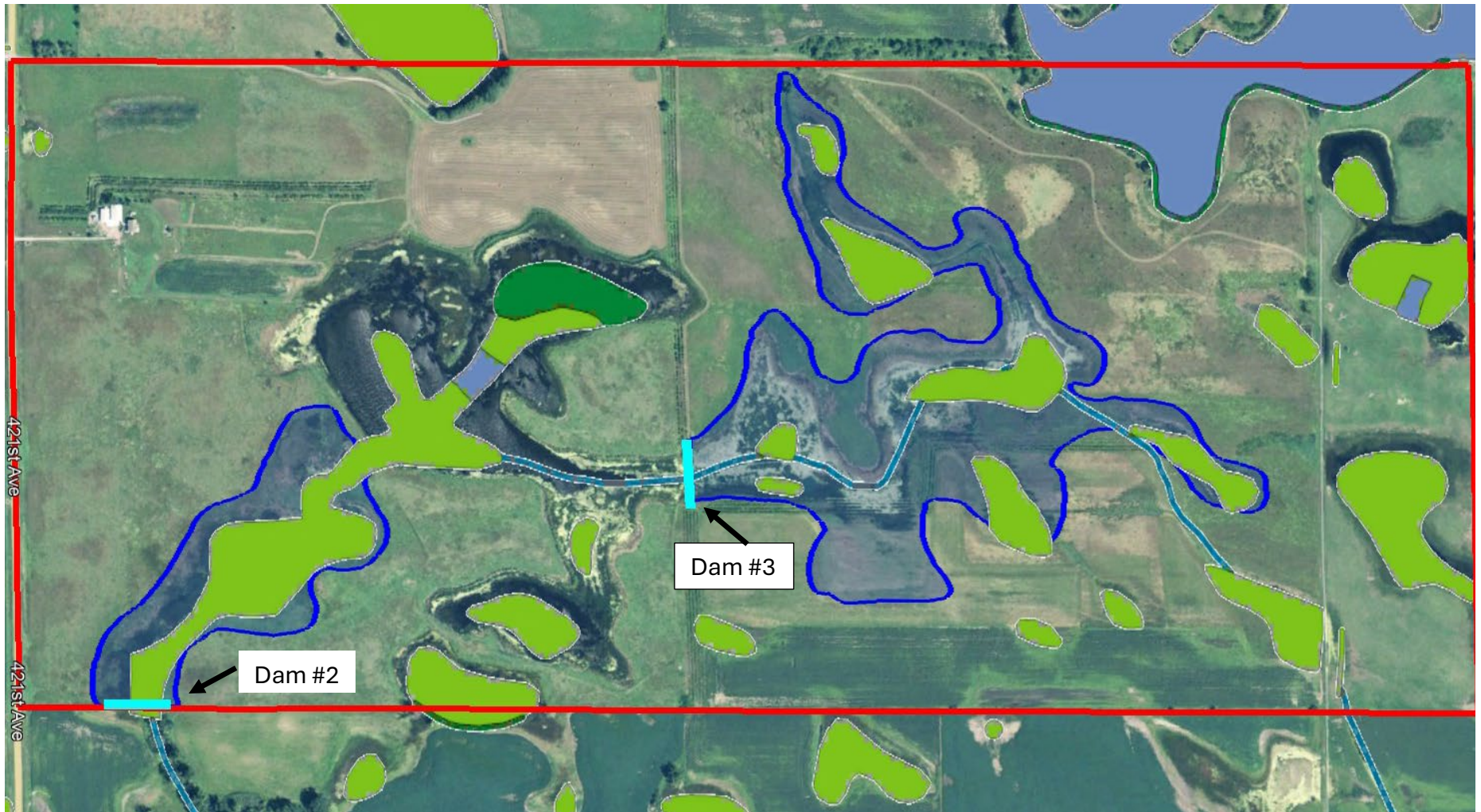
Moench Wetlands II NWI Project Map – N½ Sec. 3, T101N, R58W – Hanson County, SD



Light Blue Stars – side of dam water will be impounded

Light Blue Lines – approximate location of planed earthen dams with WCS

Moench Wetlands II Project Map with NWI and Planned Restored/Enhanced Wetland Footprints



Light Blue Lines – approximate locations of planned earthen dams with WCS

Dark Blue Outline with Light Blue Interior Shading – planned restored/enhanced wetland footprint at dam FSL



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

STATE OF SOUTH DAKOTA)
) SS
COUNTY OF HUGHES)

**Affidavit of Public Notice
Posting on DANR Website**

Pursuant to SDCL § 46-2A-4, public notice of the following application was posted on the DANR web site at <https://danr.sd.gov/public>. The posted public notice is the same notice as published in the pertinent newspaper(s) and a copy of the public notice is maintained in the application file. If the application is contested, the posting is moved to the DANR contested case website at <https://danr.sd.gov/public/ContestedCase.aspx> until final action is taken on the application pursuant to SDCL § 46-2A-4.

Application No.: 8946-3

Name of Applicant: Jerry L. Moench

Date of Posting: 6/9/2025

Date of Removal: 7/21/2025

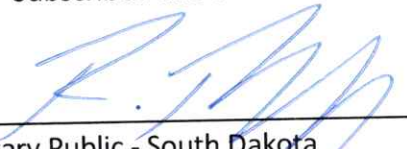


Ron Duvall, Engineer III

7/21/2025

Date

Subscribed and sworn to before me, a notary public, this 21st day of July, 2025.



Notary Public - South Dakota

My commission expires:

Rachel Rodriguez
My Commission Expires
May 16, 2029

(SEAL)



Dewell, Amanda

From: Dylan Peterson <dpeterson@ducks.org>
Sent: Tuesday, July 22, 2025 3:14 PM
To: Kilts, Whitney (DENR)
Cc: Steen, Nakaila; Mathiowetz, Adam (DENR); Dewell, Amanda; Randy Meidinger
Subject: RE: [EXT] Moench Project follow up
Attachments: SD-332-1 Jerry Moench FINAL.pdf

Follow Up Flag: Follow up
Flag Status: Completed

Whitney,

Attached is our revised plan set for the Moench Project.

The design reflects lowering the height of the "dams" to below the Dam of Safety threshold.

Please let me know if you have any questions.

-Dylan



Dylan Peterson, P.E.
 Regional Engineer (ND, SD & MT)
 C: 701-390-4993
 O: 701-355-3519
 2525 River Road,
 Bismarck, ND 58503

plans re-designed to
allow development w/o
S.O.D. plans + specs.

OK'd by Whitney

AD

From: Kilts, Whitney (DENR) <Whitney.Kilts@state.sd.us>
Sent: Wednesday, May 28, 2025 9:51 AM
To: Dylan Peterson <dpeterson@ducks.org>
Cc: Steen, Nakaila <Nakaila.Steen@state.sd.us>; Mathiowetz, Adam (DENR) <Adam.Mathiowetz@state.sd.us>; Dewell, Amanda <Amanda.Dewell@state.sd.us>
Subject: Moench Project follow up



DUCKS UNLIMITED

SPECIFICATIONS

101	GENERAL CONDITIONS
102	SUPPLEMENTAL CONDITIONS
201	MOBILIZATION
202	SITE PREPARATION
203	EXCAVATION
204	EMBANKMENT CONSTRUCTION
205	WATER
301	WATER CONTROL STRUCTURES
302	STRUCTURE AND CULVERT APPURTENANCES
303	CULVERT AND PIPE INSTALLATION
304	CAST-IN-PLACE REINFORCED CONCRETE
305	RIPRAP, REVETMENT & AGGREGATE PLACEMENT
401	SOIL EROSION AND POLLUTION CONTROL
402	SEEDING AND MULCHING

PLAN INDEX

1	LOCATION & VICINITY MAPS
2	OVERALL PLAN
3	EMBANKMENT 2 DETAILS
4	EMBANKMENT 2 TYPICAL SECTIONS
5	EMBANKMENT 3 DETAILS
6	EMBANKMENT 3 TYPICAL SECTIONS
7	STORM WATER POLLUTION PREVENTION PLAN

ESTIMATED QUANTITIES

MOBILIZATION	1 L.S.
TOPSOIL STRIPPING	1,100 C.Y.-P**
EXCAVATION (INCIDENTAL TO EMBANKMENT CONSTRUCTION)	
EMBANKMENT CONSTRUCTION	
EMBANKMENT 2	2,000 C.Y.-P**
EMBANKMENT 3	2,300 C.Y.-P**
WATER	1 M.G.
DITCH FILL	230 L.F.-A*
24"Ø WATER CONTROL STRUCTURE-6' TALL	2 EACH
24"Ø (SCH. 40) PVC PIPE	116 L.F.
DU CLASS II RIPRAP	24 C.Y.-P**
PYRAMAT 25	18,300 S.F.-A*
EROSION CONTROL BLANKET (STRAW)	310 S.Y.-A*
SILT FENCE	910 L.F.-A*
SEEDING & MULCHING	2.0 ACRES

*PAYMENT WILL BE BASED ON ACTUAL QUANTITY USED OR INSTALLED.
 **THE UNIT (C-Y-P) CUBIC YARDS-PLAN MEANS PAYMENT WILL BE BASED ON THE PLAN QUANTITY LISTED ABOVE. 20% SHRINKAGE FACTOR ADDED TO FILL VOLUMES.

"BEFORE YOU DIG"

BEFORE THE START OF CONSTRUCTION, THE OWNER OF ANY UTILITIES INVOLVED MUST BE NOTIFIED. THE EXCAVATOR/CONTRACTOR IS RESPONSIBLE FOR GIVING THIS NOTICE BY CALLING "NORTH DAKOTA ONE CALL" AT 811. A 72 HOUR NOTIFICATION AND FULL DESCRIPTION OF LOCATION IS REQUIRED.

DU ENGINEER:
 DYLAN PETERSON, P.E.
 2525 RIVER ROAD
 BISMARCK, ND 58503
 (701) 390-4993

DU REGIONAL ENGINEER:
 CASEY CAMPBELL, P.E.
 2121 N WEBB RD., SUITE 309
 GRAND ISLAND, NE 68803
 (309) 385-8832

DUCKS UNLIMITED

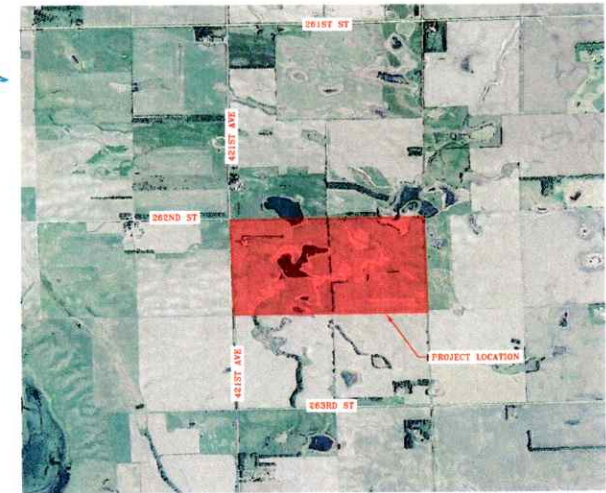
PROJECT

JERRY MOENCH WETLAND

LOCATED IN THE NW¼ OF SECTION 3
 TOWNSHIP 101N, RANGE 58W, 5TH P.M.
 HANSON COUNTY, SOUTH DAKOTA



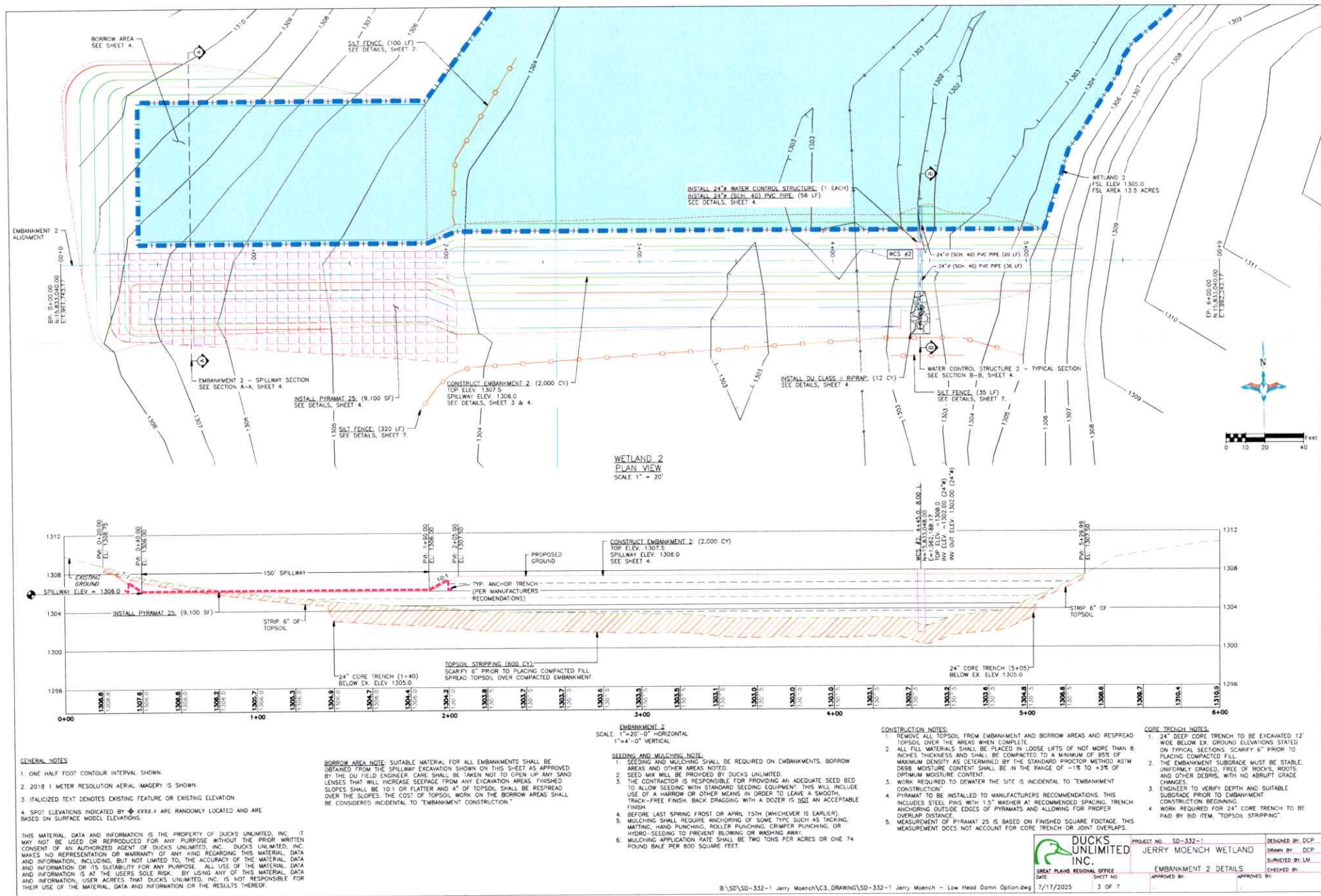
VICINITY MAP
 NOT TO SCALE

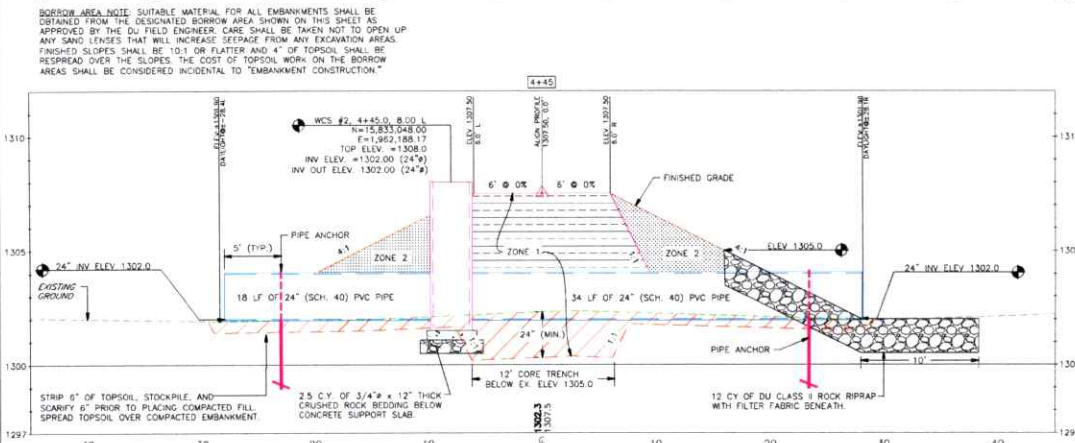
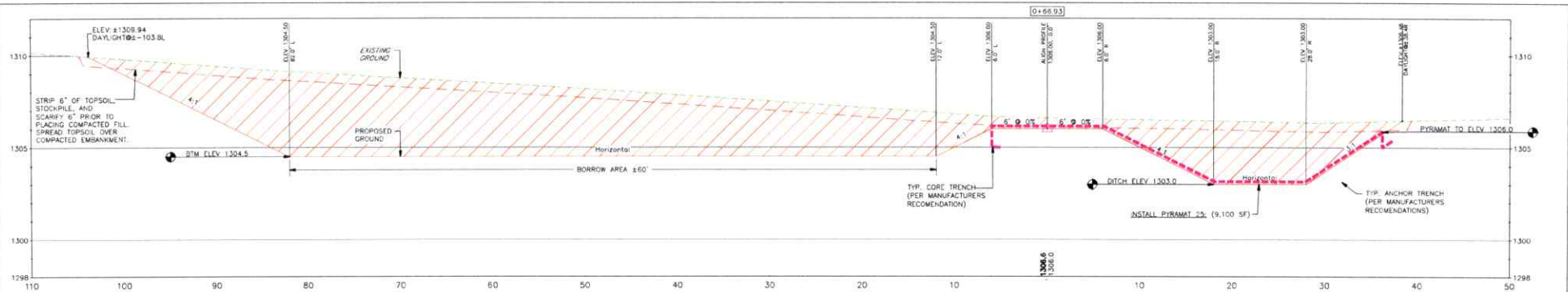


LOCATION MAP
 NOT TO SCALE

ALL WRITTEN SCALES ARE ACCURATE ON 24x36 INCH SHEETS

GREAT PLAINS REGIONAL OFFICE DATE: 7/17/2025 SHEET NO: 1 OF 7	PROJECT NO. SD-332-1 JERRY MOENCH WETLAND	DESIGNED BY: DCP DRAWN BY: DCP SUBMITTED BY: LM
	LOCATION & VICINITY MAPS	
	APPROVED BY:	CHECKED BY:
	APPROVED BY:	APPROVED BY:





EMBANKMENT CONSTRUCTION NOTES:

- STRIP 6" OF TOPSOIL, STOCKPILE, AND SCARIFY 6" PRIOR TO PLACING COMPACTED FILL. SPREAD TOPSOIL OVER COMPACTED EMBANKMENT. COST OF TOPSOIL WORK SHALL BE CONSIDERED INCIDENTAL TO BID ITEM "EMBANKMENT CONSTRUCTION".
- THE EMBANKMENT SUBGRADE MUST BE STABLE, UNIFORM, GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS, WITH NO ABRUPT GRADE CHANGES. EMBANKMENT CONSTRUCTION SHALL BE FROM COMPACTED EARTHEN MATERIAL CONTAINING MINIMAL ORGANIC MATERIAL, AND SHALL COMPLY WITH DU SPECIFICATION SECTION 204 "EMBANKMENT CONSTRUCTION".
- BORROW AREA SHALL BE DEVELOPED TO UTILIZE CLAYEY FILL FOR ZONE 1 OF THE EMBANKMENT ANY GRAVELLY OR HEAVY SAND MATERIAL SHALL BE USED FOR ZONE 2. SEE BORROW NOTES, SHEET 2.
- EMBANKMENT FILL SHALL BE OBTAINED FROM THE SPECIFIED BORROW AREA. FILL SHALL BE PLACED IN LIFTS OF NO MORE THAN 8" AND COMPACTED PRIOR TO PLACING SUBSEQUENT LIFTS.
- CONTRACTOR TO SEED FINISHED EMBANKMENT. SEE SEEDING NOTES.

GENERAL NOTES:

- ONE HALF FOOT CONTOUR INTERVAL SHOWN.
- 2018 1 METER RESOLUTION AERIAL MASTERY IS SHOWN.
- ITALICIZED TEXT DENOTES EXISTING FEATURE OR EXISTING ELEVATION.
- SPOT ELEVATIONS INDICATED BY ∇ XXXXX ARE RANDOMLY LOCATED AND ARE BASED ON SURFACE METER ELEVATIONS.

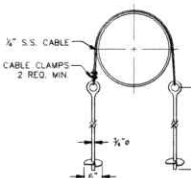
THIS MATERIAL, DATA AND INFORMATION IS THE PROPERTY OF DUCKS UNLIMITED, INC. IT MAY NOT BE USED OR REPRODUCED FOR ANY PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF AN AUTHORIZED AGENT OF DUCKS UNLIMITED, INC. DUCKS UNLIMITED, INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND REGARDING THIS MATERIAL, DATA AND INFORMATION, INCLUDING, BUT NOT LIMITED TO, THE ACCURACY OF THE MATERIAL, DATA AND INFORMATION OR ITS SUITABILITY FOR ANY PURPOSE. ALL USE OF THE MATERIAL, DATA AND INFORMATION IS AT THE USER'S SOLE RISK. BY USING ANY OF THIS MATERIAL, DATA AND INFORMATION, USER AGREES THAT DUCKS UNLIMITED, INC. IS NOT RESPONSIBLE FOR THEIR USE OF THE MATERIAL, DATA AND INFORMATION OR THE RESULTS THEREOF.

CORE TRENCH NOTES:

- 24" DEEP CORE TRENCH TO BE EXCAVATED 12" WIDE BELOW EX. GROUND ELEVATIONS STATED ON TYPICAL SECTIONS. SCARIFY 6" PRIOR TO PLACING COMPACTED FILL.
- THE EMBANKMENT SUBGRADE MUST BE STABLE, UNIFORM, GRADED, FREE OF ROCKS, ROOTS, AND OTHER DEBRIS, WITH NO ABRUPT GRADE CHANGES.
- ENGINEER TO VERIFY DEPTH AND SUITABLE SUBGRADE PRIOR TO EMBANKMENT CONSTRUCTION BEGINNING.
- WORK REQUIRED FOR 24" CORE TRENCH TO BE PAID BY BID ITEM, "CORE TRENCH EXCAVATION".

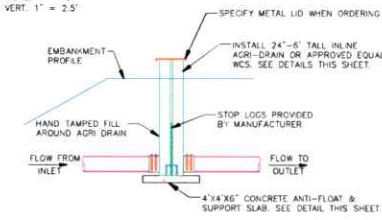
SEEDING AND MULCHING NOTE:

- SEEDING AND MULCHING SHALL BE REQUIRED ON EMBANKMENTS, BORROW AREAS AND OTHER AREAS NOTED.
- SEED MIX WILL BE PROVIDED BY DUCKS UNLIMITED.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN ADEQUATE SEED BED TO ALLOW SEEDING WITH STANDARD SEEDING EQUIPMENT. THIS WILL INCLUDE USE OF A HARROW OR OTHER MEANS IN ORDER TO LEAVE A SMOOTH, TRUCK-FREE FINISH. BACK DRAGGING WITH A DOZER IS NOT AN ACCEPTABLE FINISH.
- BEFORE LAST SPRING FROST OR APRIL 15TH (WHICHEVER IS EARLIER).
- MULCHING SHALL REQUIRE ANCHORING OF SOME TYPE SUCH AS TACKING, MATING, HAND PUNCHING, ROLLER PUNCHING, CRUMPER PUNCHING, OR HYDRO-SEEDING TO PREVENT BLOWING OR WASHING AWAY.
- MULCHING APPLICATION RATE SHALL BE TWO TONS PER ACRE OR ONE 74 POUND BALE PER 100 SQUARE FEET.



PIPE ANCHOR NOTE:

INSTALLATION OF PIPE ANCHORS TO BE CONSIDERED INCIDENTAL TO BID ITEM "24" (SCH. 40) PVC PIPE".



STRUCTURE INSTALLATION NOTES:

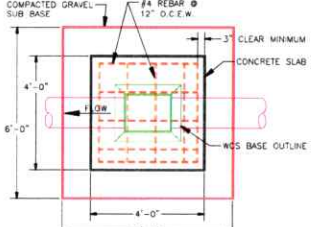
- WATER CONTROL STRUCTURE BASE, INLET AND OUTLET PIPE SHALL BE PLACED ON A LEVEL SURFACE OF COMPACTED SOIL.
- LEVEL STRUCTURE VERTICALLY PRIOR TO PLACING BACKFILL. BACKFILL AROUND STRUCTURE BY HAND IN 6" LIFTS. HAND TAMP ONLY.
- COST OF STRUCTURE INSTALLATION SHALL BE PAID UNDER BID ITEM "WATER CONTROL STRUCTURES".
- AGRI DRAIN PVC STOP LOGS SHALL BE WATER-TIGHT AND PROVIDED BY SUPPLIER.
- AGRI DRAIN CORP. TELEPHONE NUMBER IS 1-800-232-4742. SPECIFY SIZE AND TYPE OF PIPE WHEN ORDERING. ORDER BASE EXTENSION TO ALLOW ANCHORING TO CONCRETE SLAB.
- AGRI DRAIN WATER CONTROL STRUCTURE HAS A METAL BOTTOM BRACE THAT SHALL BE EMBEDDED INTO CONCRETE SLAB.
- THE AGRI DRAIN WATER CONTROL STRUCTURES SHALL BE ORDERED WITH A METAL LID. THE STANDARD PLASTIC LID IS NOT ALLOWED.

CONCRETE SLAB INSTALLATION NOTES:

- CONTRACTOR SHALL PLACE THE CONCRETE SLAB ON A COMPACTED GRAVEL BASE. THIS COST SHALL BE INCIDENTAL TO THE BID ITEM "WATER CONTROL STRUCTURE".
- SOME DOWELING MAY BE NECESSARY TO FACILITATE PLACEMENT OF CONCRETE SLAB AND WATER CONTROL STRUCTURES. THIS COST SHALL BE INCIDENTAL TO THE BID ITEM "WATER CONTROL STRUCTURE".

WATER CONTROL STRUCTURE CONCRETE SLAB PROFILE

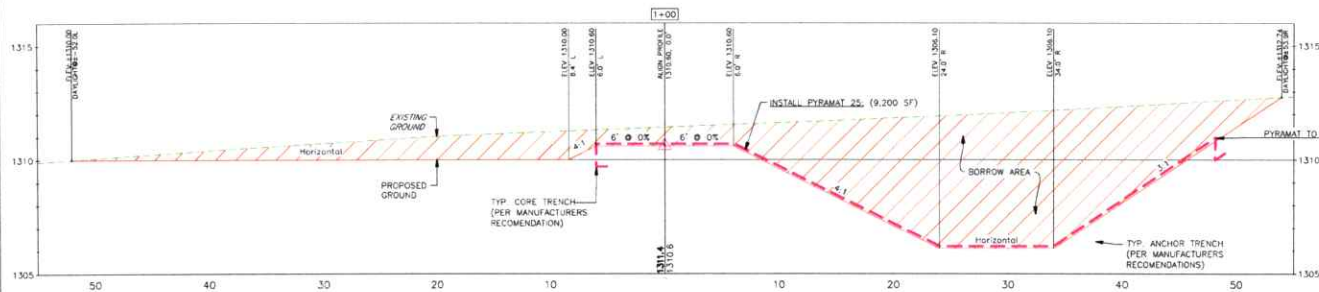
SCALE: 1" = 2"



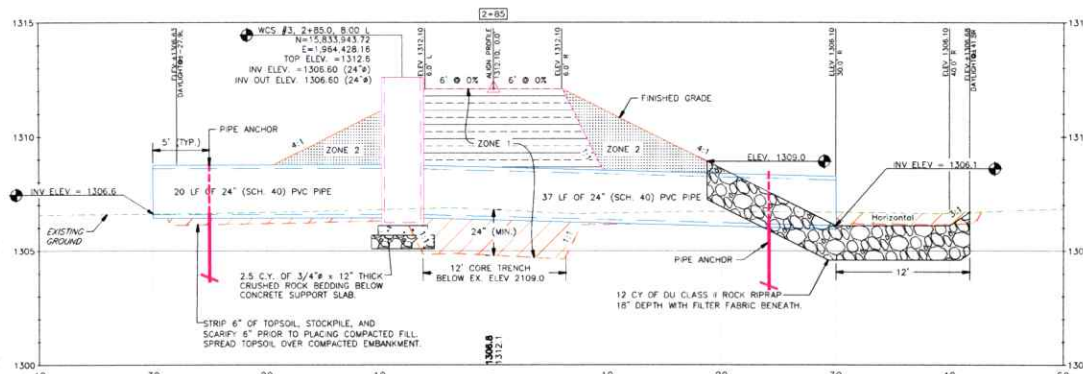
STRUCTURAL CONCRETE NOTES:

- CONCRETE, $f_y = 4000$ psi.
- REINFORCEMENT, A615, GRADE 60 $f_y = 60,000$ psi.
- ALL REINFORCING STEEL SHALL BE LAPSPED IN ACCORDANCE WITH ACI STANDARD 318-95 (36 BAR DIAMETERS MINIMUM).

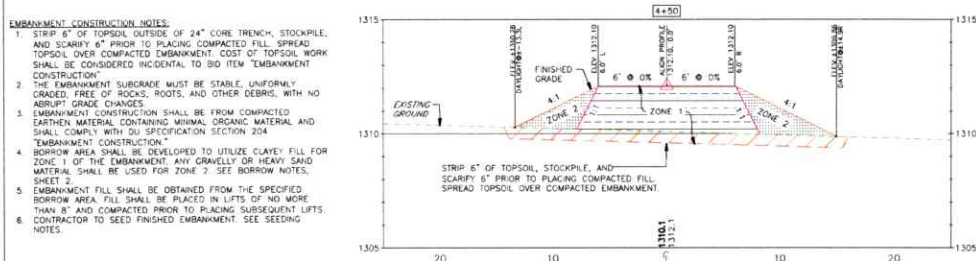
	PROJECT NO. SD-332-1	DESIGNED BY: DGP
	JERRY MOENCH WETLAND	DRAWN BY: DGP
GREAT PLAINS REGIONAL OFFICE DATE: 7/17/2025	EMBAKMENT 2 TYPICAL SECTIONS	SUPERSED BY: N/A
	APPROVED BY: [Signature]	CHECKED BY: [Signature]
SHEET NO. 4 OF 7		



EMBANKMENT 3
SPILLWAY SECTION C-C
SCALE HORIZ. 1" = 5'
VERT. 1" = 2.5'



WATER CONTROL STRUCTURE 3
SECTION D-D
SCALE HORIZ. 1" = 5'
VERT. 1" = 2.5'



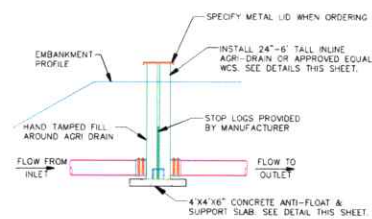
EMBANKMENT 3
TYPICAL SECTION E-E
SCALE HORIZ. 1" = 5'
VERT. 1" = 2.5'

- GENERAL NOTES**
- ONE HALF FOOT CONTOUR INTERVAL SHOWN.
 - 2018 1 METER RESOLUTION AERIAL MASTERY IS SHOWN.
 - ITALICIZED TEXT DENOTES EXISTING FEATURE OR EXISTING ELEVATION.
 - SPOT ELEVATIONS INDICATED BY Φ XXXX.X ARE RANDOMLY LOCATED AND ARE BASED ON SURFACE MODEL ELEVATIONS.

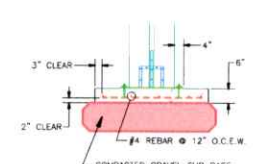
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BORROW AREA NOTE: SUITABLE MATERIAL FOR ALL EMBANKMENTS SHALL BE OBTAINED FROM THE SPILLWAY EXCAVATION SHOWN ON THIS SHEET AS APPROVED BY THE DU FIELD ENGINEER. CARE SHALL BE TAKEN NOT TO OPEN UP ANY SAND LENSES THAT WILL INCREASE SEEPAGE FROM ANY EXCAVATION AREAS. FINISHED SLOPES SHALL BE 10:1 OR FLATTER AND 4" OF TOPSOIL SHALL BE RESPADED OVER THE SLOPES. THE COST OF TOPSOIL WORK ON THE BORROW AREAS SHALL BE CONSIDERED INCIDENTAL TO "EMBANKMENT CONSTRUCTION".

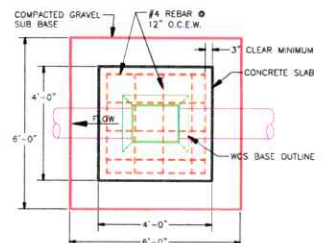
- SEEDING AND MULCHING NOTE:**
- SEEDING AND MULCHING SHALL BE REQUIRED ON EMBANKMENTS, BORROW AREAS AND OTHER AREAS NOTED.
 - SEED MIX WILL BE PROVIDED BY DUCKS UNLIMITED.
 - THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN ADEQUATE SEED BED TO ALLOW SEEDING WITH STANDARD SEEDING EQUIPMENT. THIS WILL INCLUDE USE OF A HARROW OR OTHER MEANS IN ORDER TO LEAVE A SMOOTH, TRACK-FREE FINISH. BUCK DRAGGING WITH A DOZER IS NOT AN ACCEPTABLE FINISH.
 - BEFORE LAST SPRING FROST OR APRIL 15TH (WHICHEVER IS EARLIER).
 - MULCHING SHALL REQUIRE ANCHORING OF SOME TYPE SUCH AS TACKING, MATTING, HAND PUNCHING, ROLLER PUNCHING, CRUMPER PUNCHING, OR HYDRO-SEEDING TO PREVENT BLOWING OR WASHING AWAY.
 - MULCHING APPLICATION RATE SHALL BE TWO TONS PER ACRE OR ONE 74 POUND BALE PER 800 SQUARE FEET.



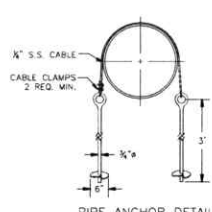
INLINE WATER CONTROL STRUCTURE PROFILE VIEW
NOT TO SCALE



WATER CONTROL STRUCTURE
CONCRETE SLAB PROFILE
SCALE: 1" = 2'



WATER CONTROL STRUCTURE CONCRETE SLAB PLAN
SCALE: 1" = 2'



PIPE ANCHOR DETAIL
NOT TO SCALE

PIPE ANCHOR NOTE
INSTALLATION OF PIPE ANCHORS TO BE CONSIDERED INCIDENTAL TO BID ITEM "24" (SCH. 40) PVC PIPE".

- STRUCTURE INSTALLATION NOTES:**
- WATER CONTROL STRUCTURE BASE, INLET AND OUTLET PIPE SHALL BE PLACED ON A LEVEL SURFACE OF COMPACTED SOIL.
 - LEVEL STRUCTURE VERTICALLY PRIOR TO PLACING BACKFILL. BACKFILL AROUND STRUCTURE BY HAND IN 6" LIFTS. HAND TAMP ONLY.
 - COST OF STRUCTURE INSTALLATION SHALL BE PAID UNDER BID ITEM "WATER CONTROL STRUCTURES".
 - AGRI DRAIN PVC STOP LOGS SHALL BE WATER TIGHT AND PROVIDED BY SUPPLIER.
 - AGRI DRAIN CORP. TELEPHONE NUMBER IS 1-800-233-4742. SPECIFY SIZE AND TYPE OF PIPE WHEN ORDERING. ORDER BASE EXTENSION TO ALLOW ANCHORING TO CONCRETE SLAB.
 - AGRI DRAIN WATER CONTROL STRUCTURE HAS A METAL BOTTOM BRACE THAT SHALL BE EMBEDDED INTO CONCRETE SLAB.
 - THE AGRI DRAIN WATER CONTROL STRUCTURES SHALL BE ORDERED WITH A METAL LID. THE STANDARD PLASTIC LID IS NOT ALLOWED.

- CONCRETE SLAB INSTALLATION NOTES**
- CONTRACTOR SHALL PLACE THE CONCRETE SLAB ON A COMPACTED GRAVEL BASE. THIS COST SHALL BE INCIDENTAL TO THE BID ITEM "WATER CONTROL STRUCTURE".
 - SOME DEWATERING MAY BE NECESSARY TO FACILITATE PLACEMENT OF CONCRETE SLAB AND WATER CONTROL STRUCTURES. THIS COST SHALL BE INCIDENTAL TO THE BID ITEM "WATER CONTROL STRUCTURE".

- STRUCTURAL CONCRETE NOTES**
- CONCRETE, $f_y = 4000$ psi
 - REINFORCEMENT, A615, GRADE 60 $f_y = 60,000$ psi
 - ALL REINFORCING STEEL SHALL BE LAPPED IN ACCORDANCE WITH ACI STANDARD 318-05 (36 BAR DIAMETERS MINIMUM)



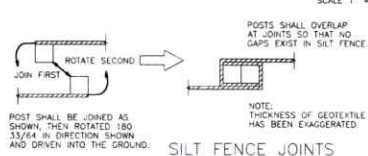
SEEDING AND MULCHING NOTE:

1. SEEDING AND MULCHING SHALL BE REQUIRED ON EMBANKMENTS, BORROW AREAS AND OTHER AREAS NOTED.
2. SEED MIX WILL BE PROVIDED BY DUCKS UNLIMITED.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN ADEQUATE SEED BED TO ALLOW SEEDING WITH STANDARD SEEDING EQUIPMENT. THIS WILL INCLUDE USE OF A HARROW OR OTHER MEANS IN ORDER TO LEAVE A SMOOTH, TRACK-FREE FINISH. BACK DRAGGING WITH A DOZER IS NOT AN ACCEPTABLE FINISH.
4. BEFORE LAST SPRING FROST OR APRIL 15TH (WHICHEVER IS EARLIER).
5. MULCHING SHALL REQUIRE ANCHORING OF SOME TYPE SUCH AS TACKING, WATING, HAND PUNCHING, ROLLER PUNCHING, CRIMPER PUNCHING, OR HYDRO-SEEDING TO PREVENT BLOWING OR WASHING AWAY.
6. MULCHING APPLICATION RATE SHALL BE TWO TONS PER ACRE OR ONE 74 POUND BALE PER 800 SQUARE FEET.

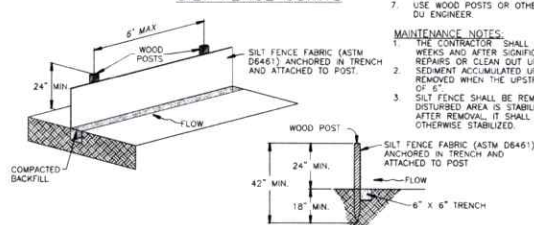
GENERAL NOTES

1. ONE HALF FOOT CONTOUR INTERVAL SHOWN.
2. 2018 1 METER RESOLUTION AERIAL IMAGERY IS SHOWN.
3. ITALICIZED TEXT DENOTES EXISTING FEATURE OR EXISTING ELEVATION.
4. SPOT ELEVATIONS INDICATED BY ∇ XXXXX ARE RANDOMLY LOCATED AND ARE BASED ON SURFACE MODEL ELEVATIONS.

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SILT FENCE JOINTS



SILT FENCE DETAIL
N.T.S.

INSTALLATION NOTES:

1. DRIVE POSTS VERTICALLY INTO THE GROUND TO A MINIMUM DEPTH OF 18\"/>

MAINTENANCE NOTES:

1. THE CONTRACTOR SHALL INSPECT SILT FENCE EVERY TWO WEEKS AND AFTER SIGNIFICANT STORM EVENTS AND MAKE REPAIRS OR CLEAN OUT UPSTREAM SEDIMENT AS NECESSARY.
2. SEDIMENT ACCUMULATED UPSTREAM OF SILT FENCE SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT REACHES A DEPTH OF 6\"/>



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

January 2nd, 2026

8946-3

Jerry Moench
26220 421st Ave
Alexandria, SD 57311

Dear Mr. Moench:

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

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

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

Sincerely,

Shannon Konst
Water Rights Program
(605) 773-3352
email: Shannon.konst@state.sd.us

RECEIVED

JAN 02 2026

OFFICE OF
WATERNOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USEDate 12/28/2025TO: Water Rights Program, DANR
523 E. Capitol
Pierre, SD 57501-3181

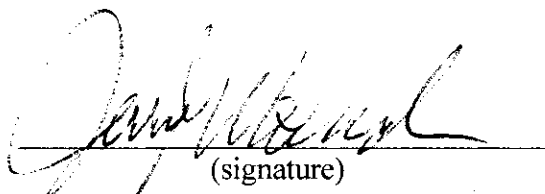
FROM:

JERRY MCENICH
(name)26220 421ST AVE
(address)ALEXANDRIA, SD 57311
(city, state, zip)605 310-2222
(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. 8946-3 states that the water use system is to be constructed by6/23/2025, and water is to be put to beneficial use by 6/23/2024.
(date) (date)The water use system was completed on 11/15/2025.
(date)Applying the water to beneficial use was completed on 3/1/2026.
(date)

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


(signature)