Sheet \_\_1\_\_ of \_9\_\_\_\_

Job Approval Class \_\_\_II

<u>CONSTRUC</u>	CTION PLAN
PRACTICE(S) <u>LINED WATERWAY OR OUTLET</u>	(468)
LANDOWNER SAUK COUNTY	
ADDRESS <u>S4555 COUNTY RD CH R</u>	EEDSBURG WI
LANDOWNER PHONE NO. 608-355-3245	COUNTYSAUK
TOWNSHIPRFFDSBURG	T <u>12</u> N, R <u>04</u> E, Sec. <u>34</u>
FIELD OFFICE_BARABOO	TELEPHONE NO. 608-355-3245
DIGGERS HOTLINE  Call 3 Work Days Before You Dig!  Nationwide 811  Toll Free 1-800-242-8511  TDD 1-800-542-2289	HWY 154  Not to Scale
Website www.diggershotline.com	LOCATION MAP
NOTICE TO LANDOWNE	ERS AND EXCAVATORS
Any representation made by the USDA, Natural Resource LCD, as to the approximate location or nonexistence of owner of the property or the excavator that is hired to of the pending construction. You will be liable for dama Call Diggers Hotline!	above or under ground hazards does not relieve the
CONSTRUCTION DRAWINGS AND	SPECIFICATIONS ACCEPTANCE
I have reviewed and understand the construction plans accordingly. Failure to meet these plans and specificat assistance or program cost sharing applied for. I under necessary permits and licenses, and to complete the work Modification of these construction plans or specifications. I assume all responsibility for negotiations and contract.  Landowner Signature:  Designed by:  Mitch McCarthy  Checked by:  Kelli Netzel	and specifications and agree to complete the work cions may jeopardize any continued NRCS technical cerstand that it is my responsibility to secure all cork in accordance with all local, state, and federal laws. It is must be approved by the NRCS before installation. It is must be approved by the NRCS before installation.  Date:  Date:
construction plans (as—built drawings) reflect changes	made during construction.
Construction Approved by:	Date:

# **ESTIMATED QUANTITIES**

			SHEET	WI CONSTRUCTION SPEC. OR
ITEM	UNIT	QUANTITY	NUMBER	JOB SHEET NUMBER
MOBILIZATION	JOB	1		007 — MOBILIZATION
SEEDING DISTURBED AREAS	JOB	1	7 & 8	WI-710 SEEDING ESTAB.
EXCAVATION	LIN. FT.	60	4 TO 6	002 - EXCAVATION
EARTHFILL	JOB	1	5	003 — EARTHFILL
6" D50 RIPRAP FOR LINED WATERWAY	CU. YD	43	4 TO 6	009 – ROCK RIPRAP
WALLER WALL				
CLASS I NON-WOVEN GEOTEXTILES	SQ.YD	180	6	013 — GEOTEXTILES
NOTE: GEOTEXTILE QUANTITIES DO NOT INCLUDE LAPS OR ANCHORING				
				,
			340	

Quantities are estimated to the neat lines and grades of in—place materials shown on the construction plan unless otherwise stated. Truck yardage, loose fill, shrinkage, etc., must be calculated and compensated for by the contractor preparing a bid or constructing the project.

USDA	United States Department of Agriculture
Natural Re	sources
Conservat	ion Service

CLIENT:	SAUK COUNTY	
COUNTY: _	SAUK	

Designed _	MRM	Date 6-2020	File Name WI-005A
Drawn	MRM	6-2020	Date
Checked _	KRN	5/2020	08/14
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# CONSTRUCTION NOTES

The purpose of this project is stabilize an eroding outlet of an existing grassed waterway. This project requires: Class II Construction Job Approval

Project Inspectors: The primary inspector will be Mitchell McCarthy, Watershed Coordinator for Sauk County and Kelli Neitzel, Conservation Specialist for the Wisconsin Department of Agriculture, Trade, and Consumer Protection.

Applicable Practice Standards and Construction Specifications:

Standard	468	Lined Waterway
W.C.S	2	Excavation
W.C.S	3	Earth Fill
W.C.S	7	Mobilization and Demobilization
W.C.S	9	Rock Riprap
W.C.S	13	Geotextiles

A Pre-construction Conference will be scheduled prior to the start of construction. At this time all materials to be used in the project should be available for inspection. This should be scheduled a MINIMUM of 3 days before construction is expected to begin.

Prior to the start of construction, check again with the owner to verify the nonexistence of utilities within the construction area. It is required that a ticket number be issued for this project by Digger's Hotline. This is the responsibility of the owner or designated representative.

All applicable local, state, and federal permits will be obtained by the project owner and supplied at the preconstruction conference.

No work shall be done below the Ordinary High Water Mark (OHWM)

### Materials

All materials to be used in the project shall be checked prior to their use in the project to make sure that they meet all standards and specs. Material certification is needed from the supplier (not the contractor) for all materials that are not identifiable by marking. Certification will be provided in accordance with the W.C.S. requirements included in this plan.

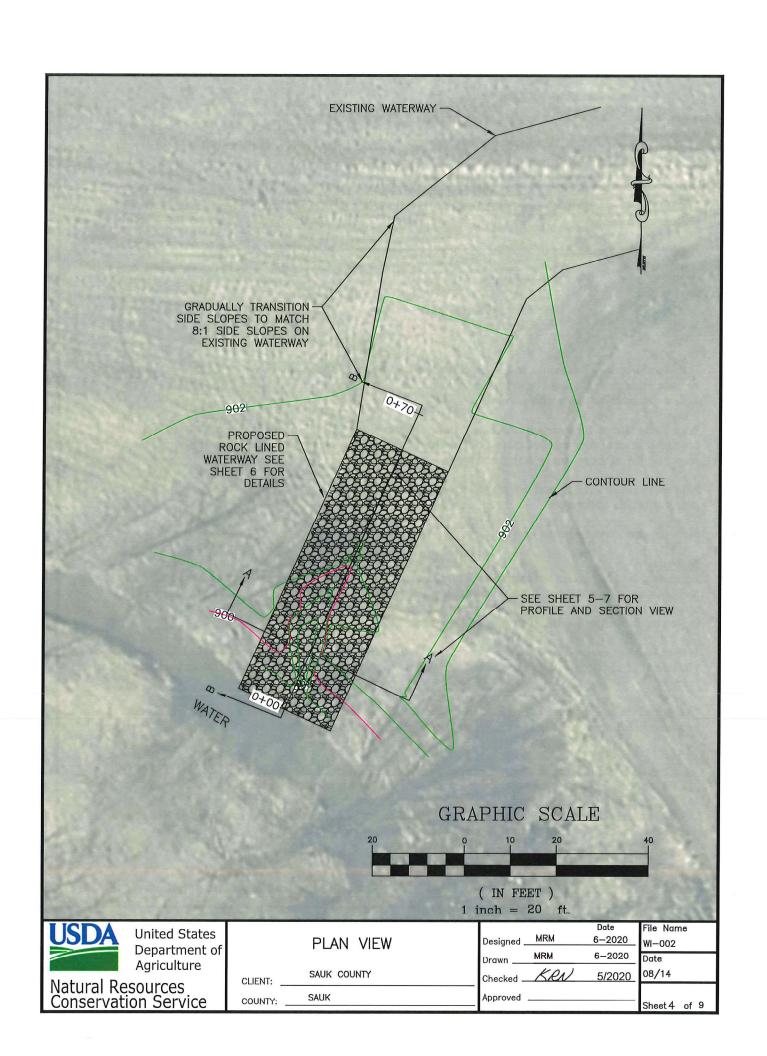
If there are saturated soil or loose sediment in the fill/rock area they shall be removed prior to fill and/or rock placement. If additional fill is needed, then the source and type needs to be approved by the technician prior to transport.

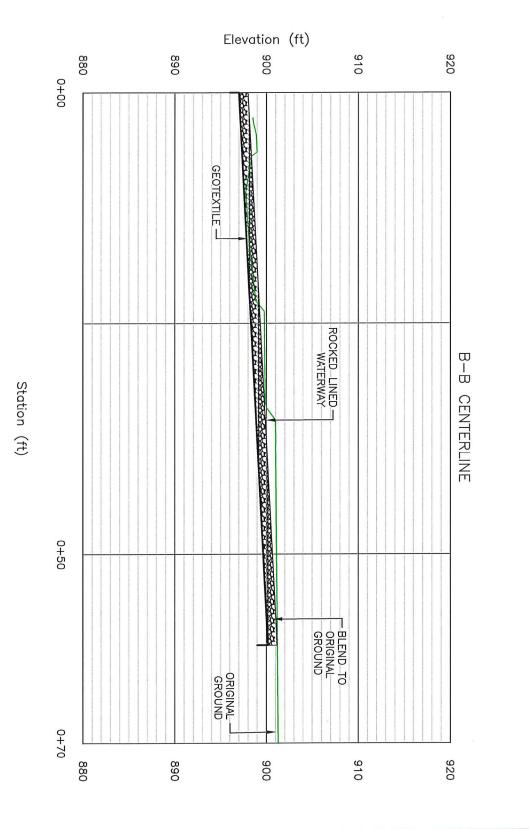
Gully needs to be excavated as needed to provide room for adequate compaction of fill. If there is excess excavation that needs to be land applied then it shall not be placed in wetlands.

### Safety

- 1. Construction site safety will be maintained in accordance with OSHA regulations.
- 2.It is the contractor's responsibility to maintain safe and healthy conditions on the construction site.
- 3. The inspector will ensure the adequate safety is maintained on the construction site.
- 4.If unsafe conditions are noted, construction will cease until those conditions are corrected. Failure to correct conditions when noted will be reported to the appropriate authorities

USDA United States	CONSTRUCTION NOTES	Date Designed MRM 6-2020	File Name
Department of Agriculture	CLIENT: SAUK COUNTY	Drawn MRM 6-2020 Checked KPA 5/2020	Date 08/14
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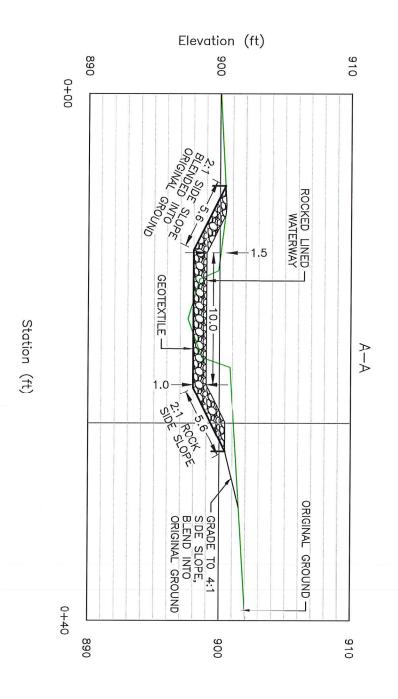




B-B CENTERLINE PROFILE VIEW

		Date	File
Designed .	MRM	6-2020	. WI-0
Drawn	MRM	6-2020	Date
TO CONTROL SERVICE SERVICES	KRN	5/2020	08/
Approved			

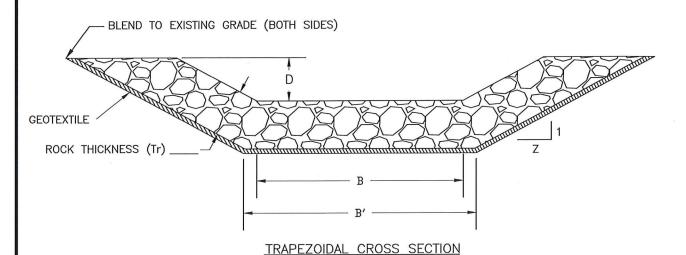
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	WI-007
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# CROSS-SECTION VIEW

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# NOTES:

- PLACE SPOIL WHERE IT WILL NOT INTERFERE WITH SURFACE WATER FLOW INTO THE WATERWAY.
- 2. DO NOT USE THE WATERWAY FOR A TRAVEL LANE.
- 3. B IS DESIGN BOTTOM WIDTH. B' IS REQUIRED CONSTRUCTED WIDTH OF FOUNDATION BEFORE PLACEMENT OF GEOTEXTILE AND ROCK.

  B'=B+(Tr/Z) WHERE Tr = THICKNESS OF ROCK IN FEET.

### CONSTRUCTION DETAILS

WATERWAY NUMBER	REA	ACH	CHANNEL BOTTOM SLOPE(%) WIDTH(B) FEET	DEPTH(D)	SIDE	LENGTH	
	FROM	то			FEET	SLOPE(Z)	FEET
1	0+00	0+50	6	10	1.5	2	50

PERCENT PASSING	SIZE¹ (in.)
100	1.5xD50 - 2.0xD50
85	1.3xDso - 1.8xDso
50	1.0xD50 - 1.5xD50
10	0.8xD50 - 1.3xD50

<sup>1</sup> ROUND UP TO NEAREST INCH.

EXCAVATION (W.C.S.* 2)	JDB
ROCK RIPRAP (W.C.S. 9)	43 CU. YD.
GEDTEXTILE (W.C.S. 13) CLASS (WDVEN) (NDNWDVEN)	180 SQ. YD.
SEEDING	DISTURBED AREAS

- \* ESTIMATED TO THE NEAT LINES AND GRADE
- \* WIS. CONSTRUCTION SPECIFICATION



United States Department of Agriculture

Natural Resources Conservation Service ROCK RIPRAP LINED WATERWAY

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#### **SEEDING DATES** CENTRAL TIME PERIOD **DATES** TYPE OF SEEDING April 15 Spring through Permanent June 1 June 2 Summer through see WI-710ss pg 2 Temporary ' Late Summer August 1 through August 21 Permanent Fall August 22 through see WI-710ss pg 2 Temporary Late Fall November 1 through Snow Cover Dormant Winter Snow Cover through April 14 Not Allowed

### **MATERIALS**

If no soil test is available, apply a minimum of 150 pounds of 20-10-10 fertilizer per acre. This is equivalent to 30 pounds nitrogen (N), 15 pounds phosphate (P205), and 15 pounds potash (K2O) per acre. Apply two tons of 80-89 lime or equivalent.

\* Seed a temporary cover crop of Oats v t 64 #/ac ( 2 bu/ac)
A permanent seeding shall be completed during the next acceptable time period following a temporary seeding.

MINIMUM PURE LIVE SEED (PLS) 1 RATE PER ACRE AND TOTAL POUNDS OF SEED NEEDED

SEEDING MIX	3	LOCATION:	1
(DESIGN)		ACRES:	0.50
SPECIES		RATE	POUNDS
Kentucky Bluegras	s	1.0	0.5
Smooth Bromegras	SS	10.0	5.0
Timothy		2.0	1.0
Tall Fescue		2.0	1.0
Perennial Ryegrass	s	5.0	2.5
*		#N/A	#N/A

1		SEEDING MIX	LOCATION	
0.50		(AS-BUILT)	ACRES	
POUNDS		SPECIES	RATE	POUNDS
0.5				
5.0				
1.0				
1.0				
2.5				_
#N/A				
<b>ADDITIONA</b>	L SEED	PERCENT:	%	

(total % Germination / 100 ° % Purity / 100) "Net Weight (lbs.)

Mulching Require No

\*\* Companion Crop

Total % Germination may also be termed Total % Viable Seed on a tag. If a tag only shows % Germination, the user must include percentage of the seed that germinated during the lab test (% Germination) plus the percentage of hard and/or domant seed. Hard seed and dormant seed are seeds that are still capable of germinating and producing a plant but did not germinate under the conditions of the test in the lab.

Additional native seeds may be required by permitting agencies. These addition are allowed.

Seed mixture shall meet all requirements of the WI weed laws.

Species identified as restricted or prohibited by law shall not be planted.

Certified seed shall be used, and the seeding rates will be based on pure live seed.

For dormant seedings, increase the seeds per square foot by 15%.

### SEEDBED PREPARATION

Seedbed preparation shall immediately follow construction activities.

Prepare a fine, firm seedbed to a minimum depth of three inches. A seedbed is considered firm when a footprint penetrates 1/4 to 1/2 inch deep.



INTRODU	JCED	SPECIES
SEEDING	ESTA	BLISHMENT

Designed _	MRM	Date 6-2020	File Name WI—710
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### SEEDING

Inoculate legumes with the specific inoculum for the species in accordance with the manufacturer's recommendations. When using a hydroseeder, five times the recommended rate of inoculant shall be added to the hydroseeder. Inoculant shall not be mixed with liquid fertilizer.

Seed may be broadcast or drilled as appropriate to the site. Seed, fertilize, and lime as soon as possible after construction. Seeding perpendicular to direction of flow is required to limit erosion.

Seed grasses and legumes no more than 1/4 inch deep.

Consider seeding at a lower rate and making 2 passes to ensure more uniform distribution.

### TEMPORARY SEEDING OPTIONS

Select one of the following species for temporary cover if:

 The required seeds or plant stock are not available or the normal permanent seeding period for the species has passed

Forage Sorghum - 1/2 bushel per acre (May 15-July 15)

Sorghum - Sudangrass Hybrid - 1 bushel per acre (May 15-July 15)

Sudangrass - 1 bushel per acre (May 15-July 15)

Winter Wheat - 2 bushels per acre (Aug 1-Oct 1)

Winter Cereal Rye - 2 bushels per acre (Aug 1-Oct 15)

Oats - 2 bushels per acre (Apr 1-Sept 1)

Annual Ryegrass - 20 Pounds per acre (Apr 1-Sept 1)

2) Triazine herbicide carryover will not allow establishment of permanent cover immediately.

Forage Sorghum - 1/2 Bushel per acre (May 15-July 15)

Sorghum - Sudangrass Hybrid - 1 Bushel per acre (May 15-July 15)

Sudangrass - 1 Bushel per acre (May 15-July 15)

Mulching not required

### DORMANT SEEDING

Seed is broadcast and incorporated, no-tilled, or drilled into the seedbed . Seedbed preparations and conditions are similar to conventional seeding.

MULCHING

Mulching not required

Natural Resources Conservation Service

INTRODU	JCED	SPECIES
SEEDING	ESTA	BLISHMENT

CLIENT: SAUK COUNTY
COUNTY: SAUK COUNTY

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