	<u>CONSTRUC</u>	TION PLAN		
PRAC <b>T</b> ICE(S) STREAMBANK A	ND SHORELINE STABILIZ	ZATION (ATCP 50.8	8/NRCS 580)	)
LANDOWNER STEVE SKOGE				
ADDR <b>E</b> SS_				
LANDOWNER PHONE NO.		COUNTY POLK		
TOWNSHIP BALSAM LAKE		T <u>35</u> N, I	R <u>16</u>	E/W Sec. 20

DIGGERS HOTLINE

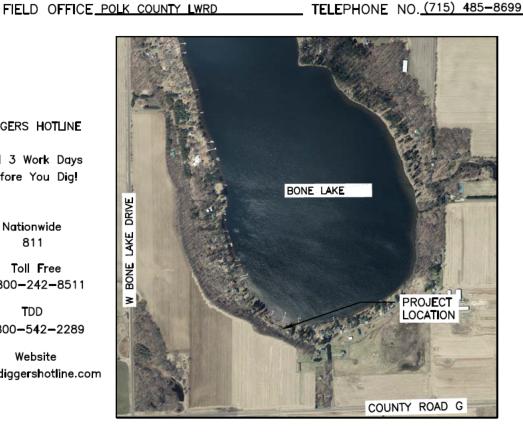
Call 3 Work Days Before You Dig!

> Nationwide 811

Toll Free 1-800-242-8511

TDD 1-800-542-2289

Website www.diggershotline.com





LOCATION MAP

### NOTICE TO LANDOWNERS AND EXCAVATORS

PO**LK** Any representation made by the USDA, Natural Resources Conservation Service, or the

County LCD, as to the approximate location or nonexistence relieve the owner of the property or the excavator that is his Diggers Hotline of the pending construction. You will be liable activities. (Call Diggers Hotline) Ticket #	red to complete construction, from notifying e for damages resulting from construction
Landowner Acceptance: <u>See WI Jobshe</u>	eet 819
Designed by:	Date:
Checked by:	Date:
Approved by:	Date:
The installed practices comply with applicable NRCS technical construction plans (as—built drawings) reflect changes made	
Construction Approved by:	Date:
Job Approval Class <u>(580 – III WAV<b>E</b> H<b>E</b>IGHT)</u>	Sheet <u>1</u> of <u>9</u>

### **ESTIMATED QUANTITIES**

ITEM	UN <b>IT</b>	QUANTITY	S <b>HEE</b> T NUMB <b>E</b> R	WI. CONSTRUCTION SPEC. OR JOB SHEET NUMBER
MOBILIZATION	JOB	1		7 — MOBILIZATION & DEMOBILIZATION
MINOR SHAPING AND GRADING — (approx. 15 C.Y.)	JOB	1	4,5	2 — EXCAVATION
CLASS 1 NON-WOVEN GEOTEXTILE FABRIC	S.Y.	2 <b>4</b> 0	5	13 — GEOTEXTILES
RIPRAP d50=8"	TONS	110	<b>4</b> ,5	9 – ROCK RIPRAP
SEED (approx. 2400 square feet)	JOB	1	4,5	SEE PAGES 7 & 8 FOR SEEDING DETAILS
EROSION CONTROL BLANKET - CLASS 1 TYPE A	S.Y.	280	<b>4–</b> 6	5 - CONSTRUCTION SITE POLLUTION CONTROL
SHRUBS — (planted at 4' spacing)	EACH	75	4,5	SEE PAGES 7 & 8 FOR SEEDING DETAILS

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.



# **ESTIMATED QUANTITIES**

CLIENT:	STEVE SKOGE
COUNTY:	POLK

		Date	Drawing Name
Designed_	KBP	11/21	WI-005
Drawn	KBP	11/21	Date
Checked _			05/15
Approved			Sheet 2 of 9

### CONSTRUCTION NOTES

- 1. ALL UNDERGROUND HAZARDS AND UTILITIES MUST BE INVESTIGATED PRIOR TO CONSTRUCTION. NOTIFICATION OF AFFECTED UTILITY COMPANIES IS THE RESPONSIBLITY OF THE CONTRACTOR. CONTACT DIGGERS HOTLINE AT LEAST THREE DAYS PRIOR TO START OF CONSTRUCTION.
- 2. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED WITH POLK COUNTY LWRD PERSONNEL, THE CONTRACTOR, AND THE LANDOWNER PRIOR TO CONSTRUCTION START-UP.
- 3. THE CONTRACTOR AND/OR LANDOWNER SHALL NOTIFY POLK COUNTY LWRD AT LEAST 3 DAYS PRIOR TO START-UP OF CONSTRUCTION.
- 4. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH WISCONSIN NRCS CONSTRUCTION SPECIFICATIONS (SEE PROJECT MANUAL).
- 5. INITIAL SURVEY LAYOUT WILL BE PERFORMED BY POLK COUNTY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADDITIONAL GRADE STAKES DURING CONSTRUCTION AS NECESSARY, OR IF DAMAGED BY THEIR OPERATIONS.
- 6. ANY MATERIALS MUST BE ON-SITE AT THE TIME OF CONSTRUCTION AND MUST BE APPROVED BY THE ENGINEER/TECHNICIAN PRIOR TO INSTALLATION.
- 7. ALL DISTURBED AREAS SHALL BE SEEDED AS SOON AS POSSIBLE IN THE CONSTRUCTION SEQUENCE. SEED MIX TAGS SHALL BE DOCUMENTED BY THE TECHNICIAN.
- 8. EXISTING ROCK ON SHORELINE CAN BE USED TO SUPPLEMENT THE PROPOSED RIPRAP.
- 9. GEOTEXTILE FILTER FABRIC SHALL CONFORM TO WISCONSIN CONSTRUCTION SPECIFICATION 13. RIP RAP OR AGGREGATE SHALL BE PLACED IN THE MANNER DESCRIBED IN THIS SPECIFICATION AND SHALL ENSURE THAT NO DAMAGE TO THE GEOTEXTILE FABRIC OCCURS.
- 10. ROCK RIP RAP SHALL BE FURNISHED FROM AN APPROVED QUARRY AND SHALL MEET THE SPECIFICATIONS CONTAINED IN WISCONSIN CONSTRUCTION SPEC 9 WITH REGARDS TO SPECIFIC GRAVITY, ABSORPTION, AND SOUNDNESS. ROCK RIP RAP FROM IGNEOUS OR METAMORPHIC ORIGINS SUCH AS GRANITE, BASALT, AND QUARTZITE MAY BE USED WITHOUT TESTING.
- 11. ROCK GRADATION MUST BE APPROVED PRIOR TO CONSTRUCTION.
- 12. EROSION CONTROL BLANKET SHALL BE CLASS 1—TYPE A BIODEGRADABLE, IT SHALL BE INSTALLED AFTER SEEDING AND BEFORE PLANTING OF SHRUBS.
- 13. EROSION CONTROL MEASURES MAY BE REQUIRED TO ENSURE THAT BONE LAKE DOES NOT RECEIVE SEDIMENT OR OTHER MATERIAL FROM THE PROJECT SITE DURING CONSTRUCTION.
- 14. AVOID DISTURBANCE OF AQUATIC VEGETATION WHEREVER POSSIBLE.

USDA	United States Department of Agriculture		
Natural Resources			

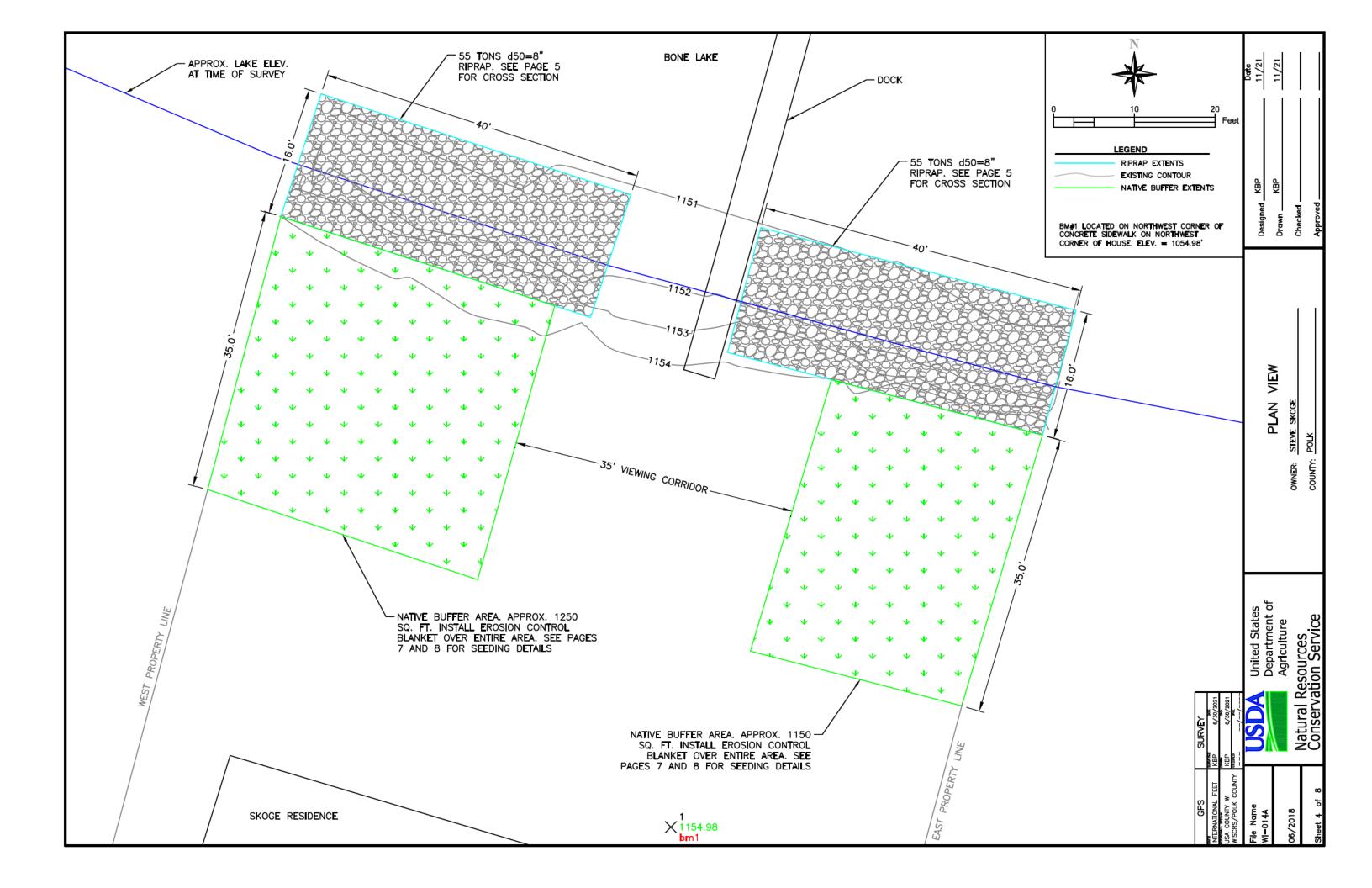
Conservation Service

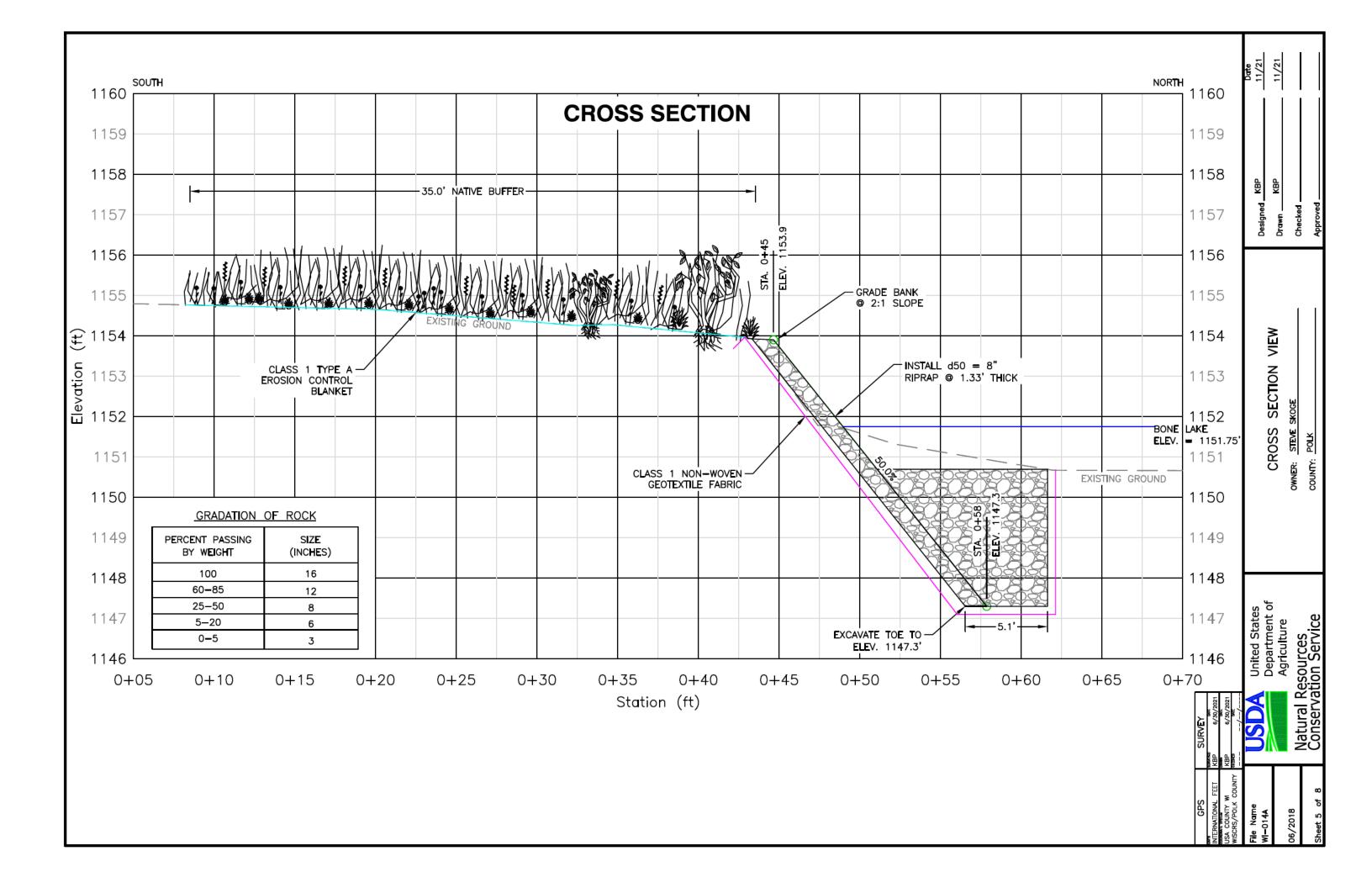
CONST	RUCTION	NOTES
-------	---------	-------

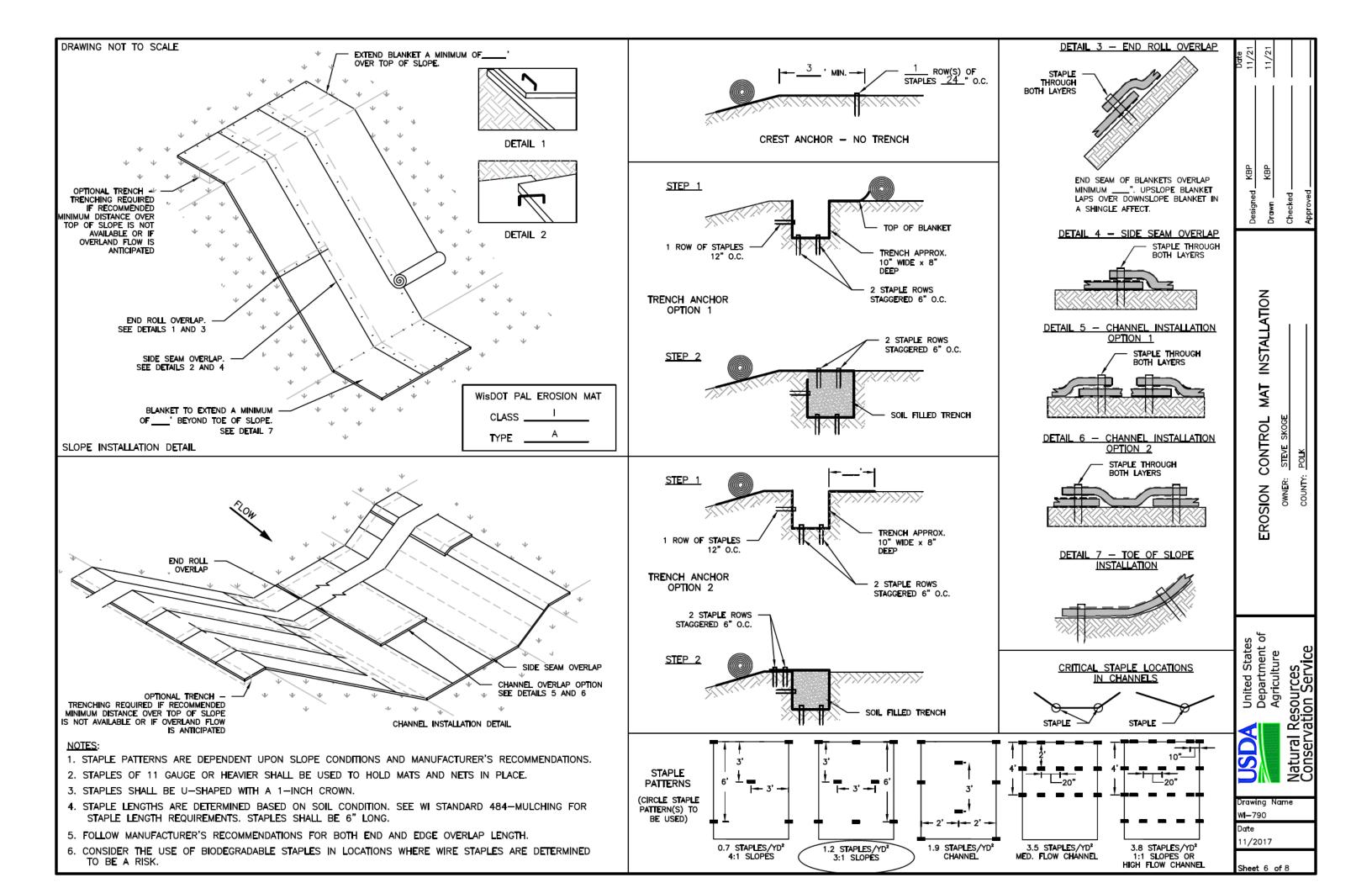
CLIENT: STEVE SKOGE

COUNTY: POLK

		Date	Drawing Name
Designed _	KBP	11/21	
Drawn	KBP	11/21	Date
Checked _		_	
Approved			Sheet 3 of 8







#### SEEDING DATES

TIME PERIOD		DATES		TYPE OF SEEDING
Spring	April 15	through	June 1	Permanent
Summer	June 2	through	see <b>WI</b> —710 pg. 2	Temporary *
Late Summer	August 1	through	August 22	Permanent
Fall	August 23	through	see <b>WI-</b> 710 pg. 2	Temporary *
Late Fall	November 1	through	snow cover	Dormant
Winter	snow cover	through	April 14	Frost Seed 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 (K20) per acre. Apply two tons/ac of 80-89 lime or equivalent. (see page 2 for equivalent)

\* Seed a temporary cover crop of <u>Annual Rye</u> at a rate of <u>20</u> pounds/acre. (<u>1/3</u> Bushels/acre) 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

WINIMOW FORE LIVE SEED (FES)	IVAIL FEN	ACINE AINL	TOTAL POUNDS OF SEED NEEDEL	.0		
SEEDING MIX 1 LOCATION ACRES 0.1		SEEDING MIX SHRUBS LOCATION ACRES 0.1		1		
SPECIES	RATE	POUNDS	SPECIES		TOTAL	SPACING
Fox Sedge	0.3	.03	Northern Bush Honeysuckle		25	4'
Canada Wildrye	3.0	.30	New Jersey Tea		25	4'
Prairie Cordgrass	2.5	.25	Witch Hazel		25	6'
Canada Milkvetch	0.1	.01				
Red Clover	0.1	.01				
Birdsfoot Trefoil	0.2	.02				
Cardinal Flower	0.03	.003				
Smooth Blue Aster	0.25	.025				
Common Ironweed	0.3	.03				
•						

- PLS = (% Germination X % Purity)
- \*\* 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 dormant 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 additions 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 less than 1/4 inch deep.



## NATIVE SPECIES SEEDING ESTABLISHMENT

CLIENT: STEVE SKOGE COUNTY: POLK Approx

		WJ-71	O Page 1 of 2
	KDD	Date	File Name
Designed	NDF	11/21	<b>WI-</b> 710
Drawn	KBP	11/21	Date
			12/2019
Approved			Sheet 7 of 8

### 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)

#### 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 is required.)

(Mulching is not required.)

Mulching shall be done immediately after seedbed preparation and seeding. Mulch shall be applied immediately after final grading for areas seeded at a later date.

Mulch material shall be relatively free of disease, pesticides, chemicals, noxious weed seeds, and other pests and pathogens.

Spread straw and hay mulch uniformly and at the rate of 1.5—2.0 tons per acre (60—70 bales). This application results in a layer of 6 to 7 stems, 1 to 2 inches thick, and provides a minimum 70% ground cover. Some soil surface can be seen after the application. Crimping (disking), wood cellulose fiber, tackifiers, netting, pinning, or other acceptable methods of anchoring will be used if needed to hold the mulch in place.

If other mulch materials are used, the rate of application shall meet the manufacturer's recommendations.

Two (2) tons/ac of 80-89 lime or equivalent from UW-EXT A3671

Lime Quality	Tons/AC
40-49	3.9
50-59	3.2
60-69	2.7
70-79	2.3
90-99	1.9
100 <del>+</del>	1.6

WI-710 Page 2 of 2



## NATIVE SPECIES SEEDING ESTABLISHMENT

CLIENT: STEVE SKOGE

COUNTY: POLK

Designed .	KBP	Date 11/21	File No WI—710	ime O	•	
Drawn		11/21	Date 12/201			
Checked . Approved			Sheet		of	8