		CONS	TRUCTION	PLAN	<u> </u>				
PRACTICE(S)	STREAMBANK	AND SHORELINE	STABILIZATION	(ATCP	50.88	NRCS 5	80)		
LANDOWNER	STEVE LERC	Н							
ADDRESS.									
LANDOWNER	PHONE NO.		COUN	NTY_PO	DLK				
TOWNSHIP_BA	ALSAM LAKE		T3	5	N, R	16	E/W	Sec. <u>07</u>	

DIGGERS HOTLINE

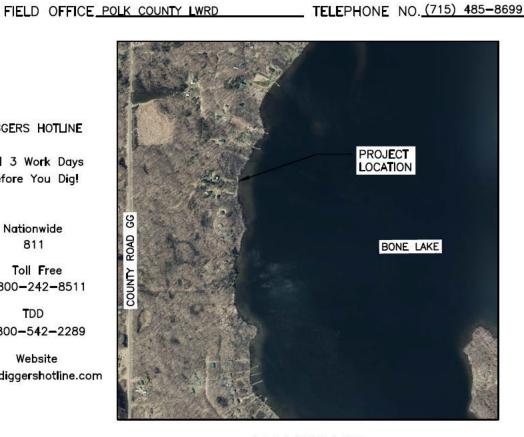
Call 3 Work Days Before You Dig!

> Nationwide 811

Toll Free 1-800-242-8511

TDD 1-800-542-2289

Website www.diggershotline.com





LOCATION MAP

NOTICE TO LANDOWNERS AND EXCAVATORS

POLK Any representation made by the USDA, Natural Resources Conservation Service, or the

County LCD, as to the approximate location or nonexis relieve the owner of the property or the excavator that Diggers Hotline of the pending construction. You will be	t is hired to complete construction, from notifying
activities. (Call Diggers Hotline) Ticket #	
Landowner Acceptance: See WI	Jobsheet 819
Designed by:	Date:
Checked by:	Date:
Approved by:	Date:
The installed practices comply with applicable NRCS to construction plans (as—built drawings) reflect changes	
Construction Approved by:	Date:
Job Approval Class (580 — III WAVE HEIGHT)	Sheet <u>1</u> of <u>9</u>

ESTIMATED QUANTITIES

	6	A STATE OF THE STA		
ITEM	UN IT	QUANTITY	S HEE T NUMBER	WI. CONSTRUCTION SPEC. OR JOB SHEET NUMBER
MOBILIZATION	JOB	1		7 — MOBILIZATION & DEMOBILIZATION
CLEARING AND GRUBBING — (ONE 24" TREE AND TWO STUMPS)	JOB	1	4,5	1 — C le aring
MINOR SHAPING AND GRADING — (approx. 30 C.Y.)	JOB	1	4,5	2 — EXCAVATION
MOVE EXISTING ONSITE ROCK PROTECTION TO BANKTOE	JOB	1	4	
TURF REINFORCEMENT MAT—CLASS III TYPE A (SEE WISDOT EROSION CONTROL P.A.L)	S.Y.	150	4 –7	5 - CONSTRUCTION SITE POLLUTION CONTROL
DUCKBILL STYLE EARTH ANCHORS — MINIMUM 30" CABLE	EACH	85	5	
NATIVE SEEDING — (APPROX. 1500 SQ. FT.)	JOB	1	4	SEE PAGES 8 & 9 FOR SEEDING DETAILS
208 22400		* Natio 78 8370	35 35 2000	20 20

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
Conservati	on Service

ESTIMATED QUANTITIES

TIES	Designed	KBP	7/21				
0	Drawn		7/21				
	Checked						
	Approved	100					

9	Drawing Name WI-005
	Date
	05/15

Sheet 2 of 9

Date

COUNTY: POLK

STEVE LERCH

CONSTRUCTION NOTES

- 1. ALL UNDERGROUND HAZARDS AND UTILITIES MUST BE INVESTIGATED PRIOR TO CONSTRUCTION. NOTIFICATION OF AFFECTED UTILITY COMPANIES IS THE RESPONSIBILITY 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).
- 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 REMOVED AND REPLACED AT THE BANK TOE FOLLOWING THE INSTALLATION OF THE TURF REINFORCEMENT MAT.
- TURF REINFORCEMENT MAT SHALL BE INSTALLED FOLLOWING SEEDING AND SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATIONS FOR STAPLING PATTERNS AS WELL AS THE TECHNIQUES FOR TRENCHING SHOWN ON PAGE 7.
- 10. EROSION CONTROL MEASURES MAY BE REQUIRED TO ENSURE THAT BONE LAKE DOES NOT RECEIVE SEDIMENT MATERIAL FROM THE PROJECT SITE.
- 11. AVOID DISTURBANCE OF AQUATIC VEGETATION WHEREVER POSSIBLE.

USDA	United States Department of Agriculture
Natural Re	esources

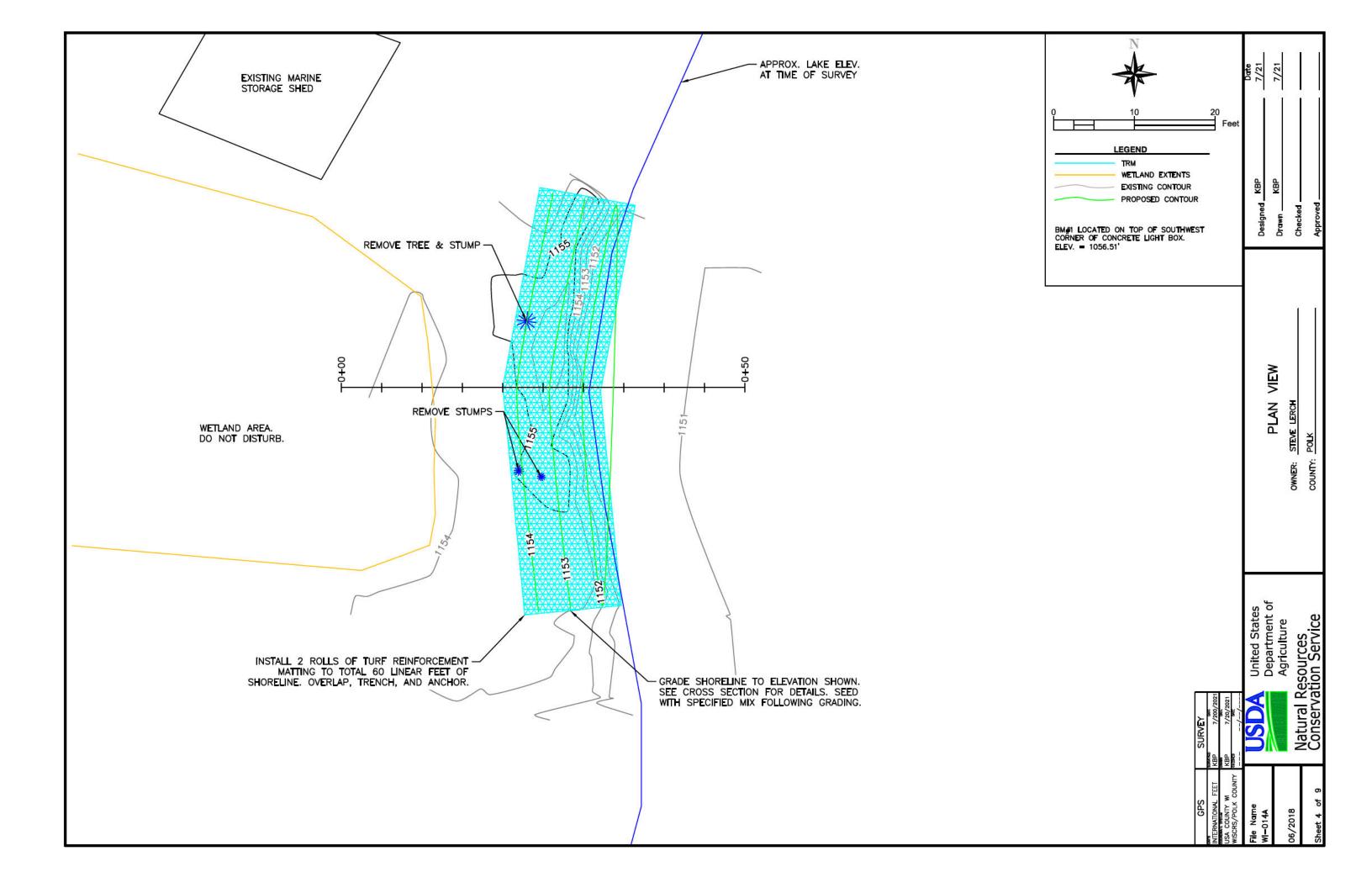
Conservation Service

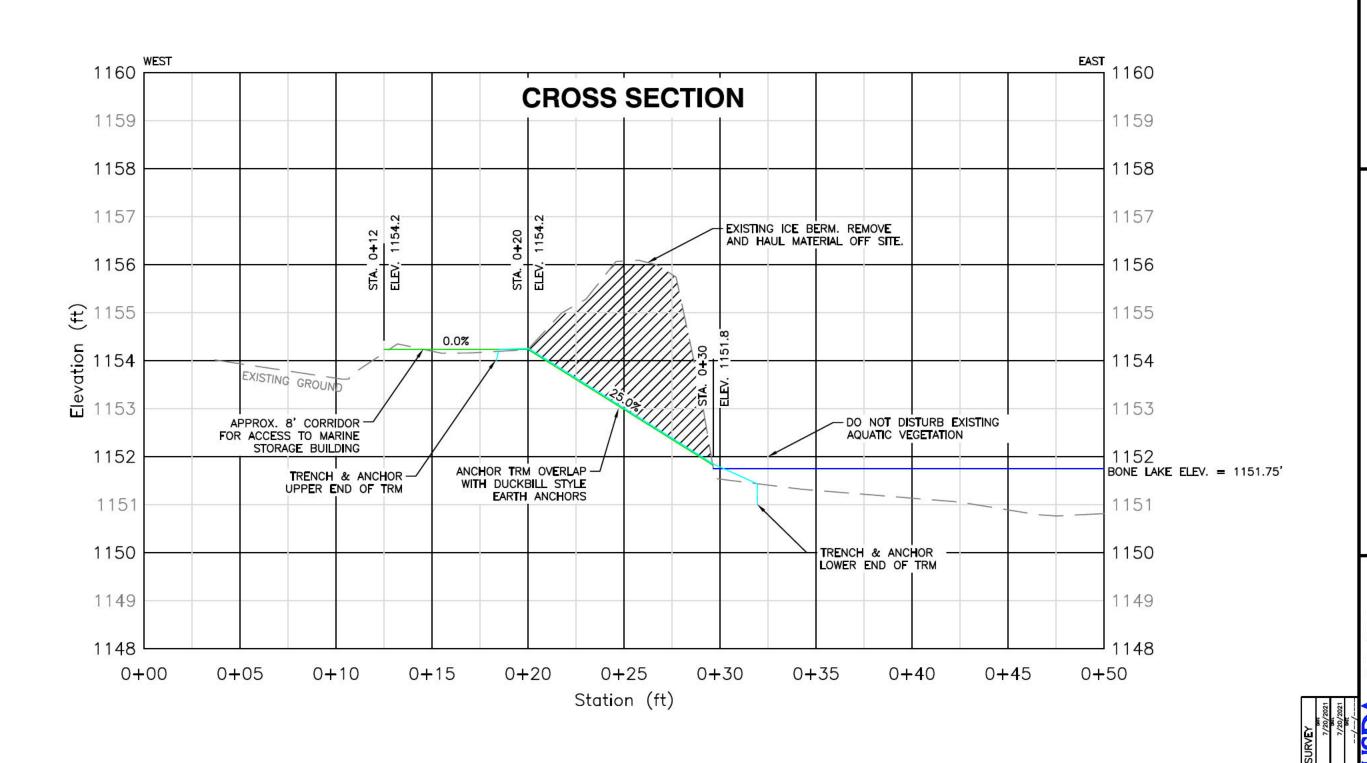
CONSTR	UCTION	NOTES
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CLIENT: STEVE LERCH

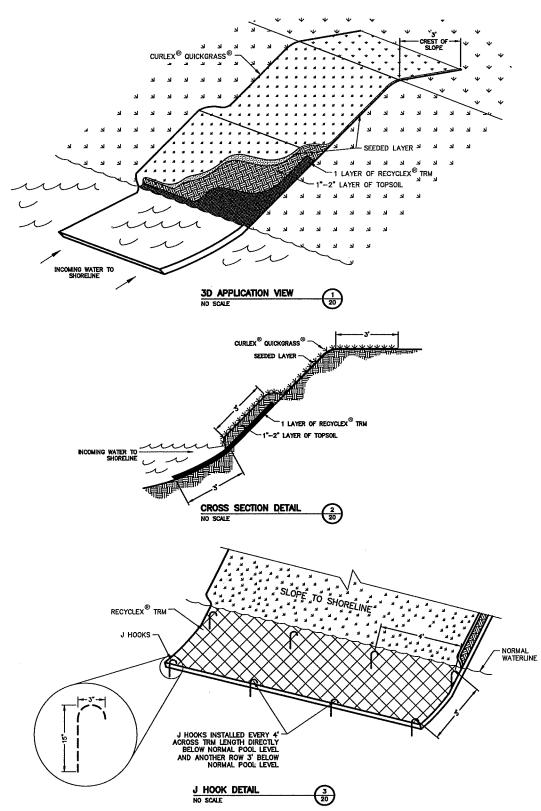
COUNTY: POLK

Designed .	KBP	Date 7/21	Drawing Name
Drawn	KBP	7/21	Date
Checked _			50
Approved			Sheet 3 of 9





Designed KBP CROSS SECTION VIEW OWNER: STEVE LERCH
COUNTY: POLK United States Department of Agriculture



- 1) INSTALL LAYER OF RECYCLEX® TRM 8' WIDTH, APPROXIMATELY 3' BELOW NORMAL POOL & 3' ABOVE NORMAL POOL
- 1) INSTALL LAYER OF RECYCLEX® TRM 8' WIDTH, APPROXIMATELY 3' BELOW NORMAL POOL & 3' ABOVE NORMAL POOL
 2) INSTALL #3 (3/8) REDAR J-HOOKS (18' LENGTH WITH 3' CROWN) BELOW WATERLINE ALONG THE OUTSIDE EDGE OF RECYCLEX® TRM EVERY
 4 LINEAL FEET AND REPEAT AT EDGE OF THE WATERLINE.
 3) ABOVE THE WATERLINE ANCHOR THE RECYCLEX® TRM LAYER.
 4) ABOVE WATERLINE, SOIL FILL TOPSOIL OVER RECYCLEX® TRM SO IT INTERMINGLES INTO AND ABOVE THE PERMANENT MATRIX 1"-2".
 5) SEED TOPSOIL LAYER THAT WAS PLACED ON TOP OF RECYCLEX® TRM AND REMAINDER OF DISTURBED SLOPE WITH A MIXTURE SUITED FOR SITE CONDITIONS.

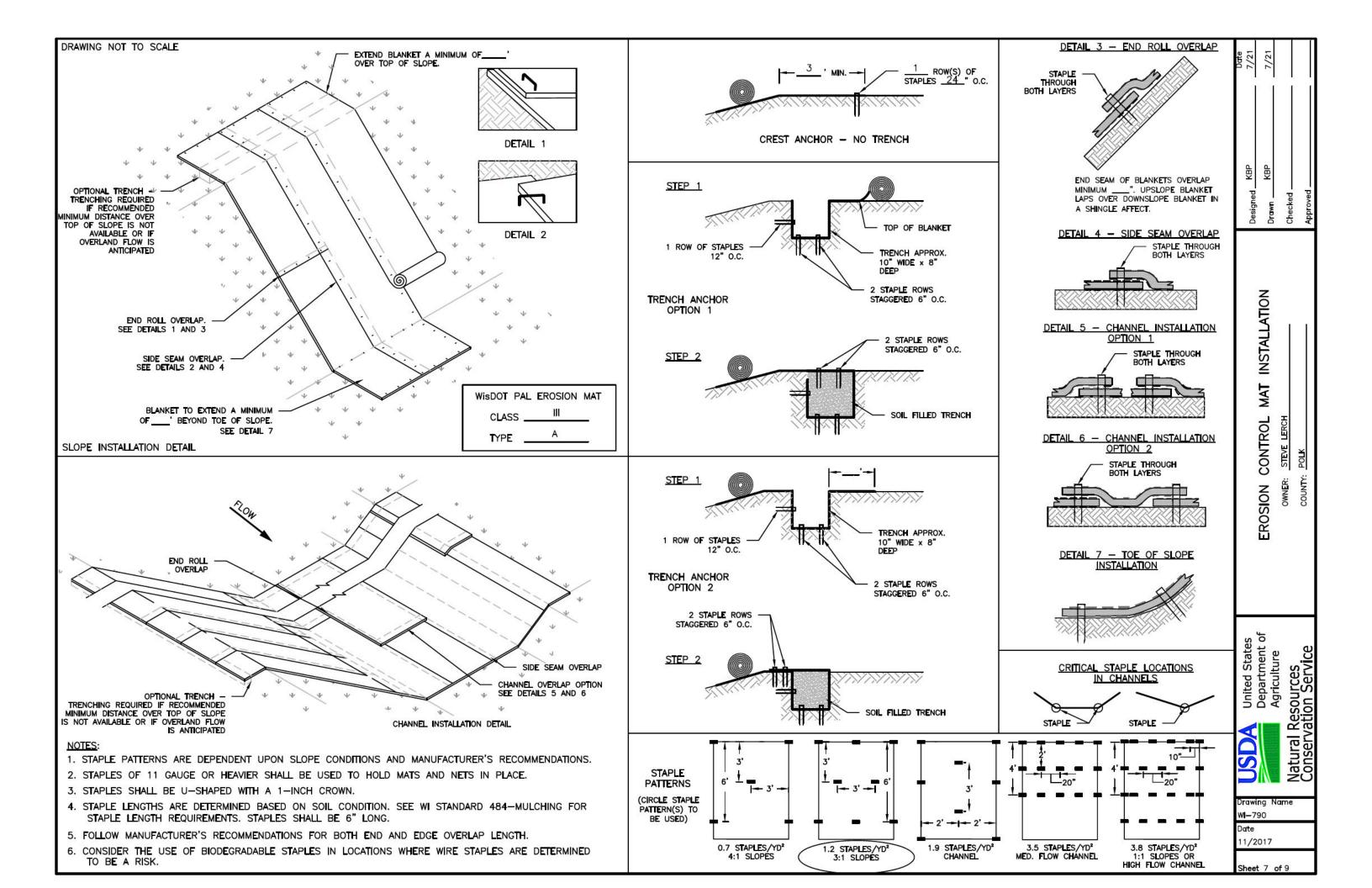
- SITE CONDITIONS.

 8) BEGINNING AT THE WATERLINE INSTALL CURLEX® QUICKGRASS® BLANKETS OVER THE SEED/TOPSOIL LAYER TO PROMOTE IDEAL GROWING CONDITIONS FOR GRASS SEED ON THE SLOPE ABOVE THE WATERLINE. TO PROTECT THE REMAINING BARE SOIL CONTINUE THE INSTALLATION OF CURLEX® QUICKGRASS® BLANKETS UNTIL IT HAS REACHED 3' OVER THE CREST OF THE SLOPE AND ANCHOR.

 7) STAPLE PATTERNS ARE DEPENDENT ON SITE CONDITIONS. SEE CURLEX® AND RECYCLEX® TRM STAPLE PATTERN GUIDES FOR DETAILS.



SHEET DESCRIPTION
SINGLE RECYCLEX®/CURLEX® SYSTEM
SHORELINE PROTECTION DETAIL AMERICAN EXCELSIOR COMPANY ARLINGTON, TEXAS DATE 3/20/17 DRAWN BY SCALE PROJECT NO. SHEET NO. NONE



SEEDING DATES

TIME PERIOD		DATES		TYPE OF SEEDING
Spring	April 15	through	June 1	Permanent
Summer	June 2	through	see WI-710 pg. 2	Temporary *
Late Summer	August 1	through	August 22	Permanent
Fall	August 23	through	see WI-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 _____at a rate of 64 pounds/acre. (___2 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

SEEDING MIX1	LOCATION _ ACRES _	3	0.1	SEEDING MIX	·	LOCATION ACRES		
SPECIES	RAT	Ε	POUNDS	SPECIES			RATE	POUNDS
Fox Sedge	0.3	3	.03					
Canada Wildrye	3.0)	.30					8
Prairie Cordgrass	2.5	5	.25					
Canada Milkvetch	0.	1	.01					
Red Clover	0.	1	.01					
Birdsfoot Trefoil	0.2	2	.02					
:								

- 1. 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.

USDA United States
Department of
Agriculture
Natural Resources
Conservation Service

NATIVE SPECIES
SEEDING ESTABLISHMENT

CLIENT: STEVE LERCH

COUNTY: POLK

Designed KBP 9/21 WI-710

Drawn KBP 9/21 Date

Checked 12/2019

Approved Sheet 8 of 9

WI-710 Page 1 of 2

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+	1.6		

WI-710 Page 2 of 2



NATIVE SPECIES SEEDING ESTABLISHMENT

CLIENT: STEVE LERCH
COUNTY: POLK

Designed	KBP	Date 9/21	File Name WI-710
Drawn	KBP	9/21	Date 12/2019
Checked . Approved	(d)		Sheet 9 of 9