GENERAL NOTES

1. LANDSCAPE CONTRACTOR SHALL INSPECT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF WORK.
2. LANDSCAPE CONTRACTOR SHALL VERIFY PLAN LAYOUT AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN OR INTENT OF THE LAYOUT.
3. LANDSCAPE CONTRACTOR SHALL ASSURE COMPLIANCE WITH APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK AND MATERIALS SUPPLIED.
4. LANDSCAPE CONTRACTOR SHALL VERIFY ALIGNMENT AND LOCATION OF UNDERGROUND AND ABOVE GRADE UTILITIES AND PROVIDE THE NECESSARY PROTECTION FOR SAME BEFORE CONSTRUCTION BEGINS.
5. LANDSCAPE CONTRACTOR SHALL REVIEW THE SITE FOR DEFICIENCIES IN SITE CONDITIONS WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR WARRANTY. UNDESIRABLE SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK.
6. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ONGOING MAINTENANCE OF NEWLY INSTALLED MATERIALS UNTIL TIME OF FINAL ACCEPTANCE BY LANDSCAPE ARCHITECT. REPAIR OF ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO FINAL ACCEPTANCE SHALL BE THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR.

SEEDING NOTES

7. SEEDING SHALL FOLLOW MNDOT SEEDING MANUAL 2023 EDITION.
8. SEED SHALL BE LOCAL ORIGIN AND WILD ECOTYPE. SEED ORIGIN SHALL BE CERTIFIED BY THE MN CROP IMPROVEMENT ASSOCIATION. LOCAL ORIGIN SHALL MEAN WITHIN 175 MILES OF PROJECT SITE. PROVIDE MCIA DOCUMENTATION TO LANDSCAPE ARCHITECT PRIOR TO SEEDING.
9. SOW SEED MIXES ON ALL DISTURBED AREAS AFTER ALL GRADING ACTIVITIES HAVE BEEN COMPLETED. SEEDING MAY TAKE PLACE PRIOR TO PILE DRIVING AND SOLAR ARRAY INSTALLATION, HOWEVER ANY DISTURBED AREAS WILL HAVE TO BE RE-SEEDED.
10. ACCEPTABLE SEEDING DATES ARE APRIL 15 - JULY 20 IN THE SPRING, OR SEPTEMBER 20 - OCTOBER 20 IN THE FALL. WRITTEN PERMISSION MUST BE GRANTED BY THE LANDSCAPE ARCHITECT TO PERFORM SEEDING OPERATIONS ON ANY OTHER DATES OF THE YEAR.
11. SEEDING METHODS 1-3 ARE ANTICIPATED ACROSS THE SITE IN RESPONSE TO SITE CONDITIONS. CONTRACTOR WILL PREPARE SEEDING PLAN IN CONJUNCTION WITH PROJECT LANDSCAPE ARCHITECT, APPROVAL IS NECESSARY TO EXECUTE.
12. SOW NATIVE SEEDS WITH A MULTI-BOX BROADCAST SEEDER SUCH AS THE TRILLION BY TRUAX, WHERE POSSIBLE.
13. PREPARE SEED BED PRIOR TO SEEDING PER MNDOT SPEC. 2574.3.A.4.
14. SOLAR ARRAYS MUST BE PROTECTED FROM HYDRO-MULCH OVERSPRAY OR CLEANED AFTER APPLICATION PER MNDOT SPEC. 2575.3.E.
15. COVER NATIVE SEED MIXES WITH CLEAN STRAW MULCH (TYPE 3), AND DISC ANCHOR, EXCEPT WHERE EROSION CONTROL BLANKET IS INDICATED ON PLANS.
20. USE TEMPORARY EROSION CONTROL DEVICES (SEDIMENT LOGS, SILT FENCE) AS NEEDED TO PREVENT EROSION PRIOR TO AND DURING SEED ESTABLISHMENT.
21. INCLUDE A COVER CROP OF OATS WITHIN NATIVE GRASS SEED MIX (@ RATE OF 32 LB/ACRE) IF SEEDING BETWEEN OCTOBER 15TH AND AUGUST 1ST. IF SEEDING BETWEEN AUGUST 1ST AND OCTOBER 15TH, SUBSTITUTE WINTER WHEAT FOR OATS AT THE SAME RATE.

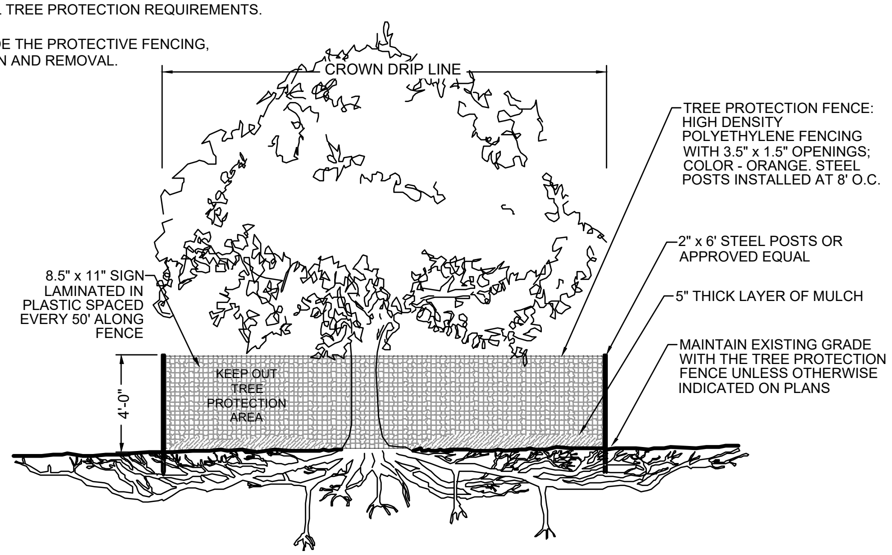
SEED ESTABLISHMENT NOTES

22. ESTABLISHMENT PERIOD COMMENCES UPON ACCEPTANCE OF SEEDING (ADEQUATE COVER CROP GERMINATION AND COVERAGE) AND RUNS FOR THREE YEARS FROM THIS DATE.
23. MONITOR THE SITE MONTHLY DURING THIS PERIOD TO DETECT AREAS OF WEED COLONIZATION. CUT OR TREAT ALL NOXIOUS WEEDS (AS CURRENTLY DEFINED BY MN DEPARTMENT OF AGRICULTURE) WITH GLYPHOSATE HERBICIDE AS SOON AS DETECTED.
24. DURING THE FIRST GROWING SEASON MOW OR CUT THE ENTIRE SEEDED AREA EVERY 30 DAYS UNTIL SEPTEMBER 30TH AT A HEIGHT OF 5-8".
25. DURING THE SECOND GROWING SEASON MOW OR CUT THE ENTIRE SEEDED AREA ONCE IN MID-JUNE AND ONCE IN MID-AUGUST AT A HEIGHT OF 5-8".
26. IF AREAS OF BARE GROUND PERSIST AFTER FIRST GROWING SEASON RESEED PER PLAN.
27. AFTER THE FIRST TWO GROWING SEASONS MOW OR CUT NATIVE SEED AREAS IN LATE FALL OR EARLY SPRING. RAKE OUT AND REMOVE DOWNED VEGETATION.

TREE PRESERVATION AND TRANSPLANT NOTES

28. TREES TO BE RELOCATED WILL BE TAGGED IN THE FIELD BY THE ENGINEER. CONTRACTORS SHALL IMMEDIATELY TRANSPLANT TREES DUG FOR RELOCATIONS, AND WATER AS NECESSARY. CONTRACTOR SHALL BE RESPONSIBLE FOR TREE MORTALITY AND REPLACE FAILED TREES AT NO COST TO PROJECT.

NOTE:
1. SEE SPECIFICATIONS FOR ADDITIONAL TREE PROTECTION REQUIREMENTS.
2. NO PRUNING SHALL BE PERFORMED.
3. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING, INCLUDING DURING FENCE INSTALLATION AND REMOVAL.



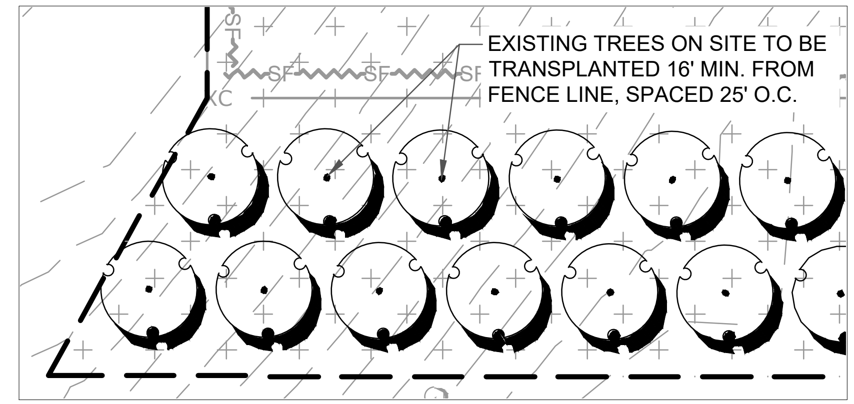
01/09 TREE PROTECTION FENCING
1:20

SEEDING SCHEDULE

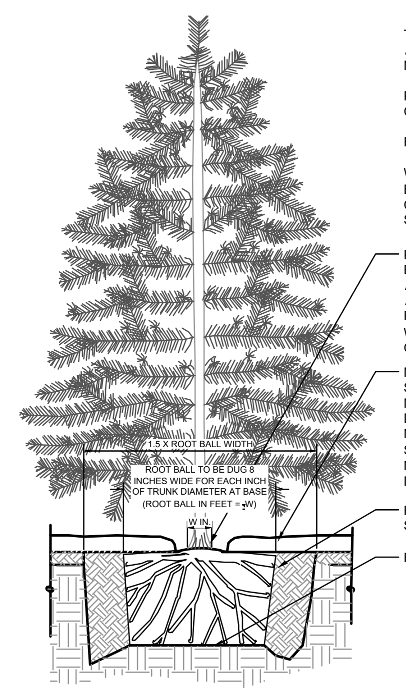
Symbol	Seed Type	Seeding Rate (lb/acre)	Total Area (acre)
S1	NRS Native Mix	13.29	24.99
		TOTAL	25.0

Coniferous Tree Transplanting Schedule

Symbol	Quantity	Scientific Name	Common Name	Size
JV	24	*Juniperus virginiana*	Eastern Red Cedar	3-4' Height
	24	**Total**		



02/09 TREE TRANSPLANTING - LAYOUT PLAN
1:20



THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL TREES IN A PLUMB POSITION THROUGH THE WARRANTY PERIOD. STAKING IS NOT PERMITTED.

PRUNE DAMAGED AND CROSSING BRANCHES AFTER PLANTING IS COMPLETE.

REMOVE ALL FLAGGING AND LABELING FROM TREE.

WATER TREE THOROUGHLY DURING PLANTING OPERATIONS. PLACE BACKFILL IN 8-12" LIFTS AND SATURATE SOIL WITH WATER. DO NOT COMPACT MORE THAN NECESSARY TO MAINTAIN PLUMB. CREATE A SHALLOW RING DEPRESSION AROUND TREE TO RETAIN WATER.

PLANTS SHOULD BE AT THE PROPER DEPTH WHEREBY THE BEGINNING TAPER OF THE ROOT FLARE IS AT THE SAME ELEVATION AS THE FINISHED SOIL GRADE. THIS SHOULD BE THE SAME DEPTH AS THE PLANTS WERE GROWN IN THE NURSERY. NOTE THAT THE ROOTS OF BALLED AND BURLAPPED PLANTS ARE UNACCEPTABLE WHEN THEY ARE COVERED BY MORE THAN 4" OF SOIL IN THE TOP OF THE BALL.

MULCH - 3" DEPTH - SHREDDED HARD WOOD SHALL BE SUBSTANTIALLY FREE OF MOLD, DIRT, SAWDUST, AND FOREIGN MATERIAL AND SHALL NOT BE IN AN ADVANCED STATE OF DECOMPOSITION. THE MATERIAL SHALL PASS A 4" SCREEN AND NOT MORE THAN 20% BY MASS OF THE MATERIAL SHALL PASS A .1 SIEVE MAX. LENGTH OF INDIVIDUAL PIECES NOT TO EXCEED 20". NO MULCH TO LAY AGAINST TRUNK OR ROOT COLLAR. PROVIDE 36" DIA. RING OF MULCH AROUND ALL TREES.

PLANTING SOIL - PER SPEC. 329300.
SCARIFY BOTTOM AND SIDES OF HOLE PRIOR TO PLANTING.

ROOT BALL SET ON MOUNDED SUBGRADE.

03/09 CONIFEROUS TREE TRANSPLANTING DETAIL
NOT TO SCALE

Connexus Landfill Native Mix

Application rate = 13.25 lb/ac (85 seeds/sf)

Type	Scientific Name	Common Name	Seeds/ sq ft	Rate (lb/ac)	% Mix (by sqft)	% Mix (by wt)
Cover	*Avena sativa / Triticum aestibum*	Oats / Winter Wheat		25		
Forb	*Achillea millefolium*	Common Yarrow	4.91	0.08	5.78%	0.57%
	Agastache foeniculum	Anise Hyssop	0.40	0.01	0.47%	0.09%
	Allium stellatum	Prairie Onion	0.06	0.02	0.07%	0.11%
	Amorpha canescens	Lead Plant	1.01	0.17	1.19%	1.30%
	Anemone canadensis	Canada Anemone	0.02	0.01	0.03%	0.06%
	Aquilegia canadensis	Wild Columbine	0.10	0.01	0.12%	0.06%
	Asclepias syriaca	Common Milkweed	0.03	0.02	0.04%	0.17%
	Asclepias tuberosa	Butterfly Milkweed	0.03	0.02	0.03%	0.14%
	Astragalus canadensis	Canada Milkvetch	0.66	0.11	0.77%	0.79%
	Chamaecrista fasciculata	Partridge Pea	0.30	0.30	0.35%	2.26%
	Coreopsis palmata	Prairie Coreopsis	0.14	0.04	0.16%	0.28%
	Dalea candida	White Prairie Clover	3.53	0.51	4.16%	3.82%
	Dalea purpurea	Purple Prairie Clover	4.96	0.75	5.84%	5.66%
	Liatris aspera	Rough Blazing Star	0.07	0.01	0.08%	0.09%
	Lupinus perennis	Wild Lupine	0.01	0.02	0.01%	0.17%
	Monarda punctata	Spotted Bee Balm	0.50	0.02	0.58%	0.11%
	Penstemon grandiflorus	Large-flowered Beardtongue	0.19	0.04	0.23%	0.28%
	Pycnanthemum virginianum	Viginia Mountain Mint	1.21	0.02	1.43%	0.11%
	Ratibida columnifera	Long-headed Coneflower	2.43	0.16	2.86%	1.19%
	Rudbeckia hirta	Black-eyed Susan	8.11	0.24	9.54%	1.81%
	Solidago nemoralis	Gray Goldenrod	0.83	0.01	0.97%	0.06%
	Solidago ptarmicoides	Upland White Goldenrod	0.71	0.03	0.83%	0.23%
	Symphyotrichum lateriflorum	Calico Aster	1.38	0.02	1.62%	0.11%
	Symphyotrichum	Sky Blue Aster	0.88	0.03	1.04%	0.23%
	Tradescantia bracteata	Prairie Spiderwort	0.05	0.01	0.06%	0.10%
	Verbena stricta	Hoary Vervain	0.77	0.08	0.91%	0.57%
	Zizia aurea	Golden Alexanders	1.21	0.30	1.43%	2.26%
		Total Guild:	34.50	3.04	40.60%	22.63%
Graminoid	*Bouteloua curtipendula*	Sideoats Grama	8.26	3.75	9.73%	28.30%
	Bouteloua gracilis	Blue Grama	9.55	0.65	11.24%	4.91%
	Bromus kalmii	Prairie Brome	0.73	0.25	0.86%	1.89%
	Carex brevior	Plains Oval Sedge	3.20	0.30	3.76%	2.26%
	Elymus trachycaulus	Slender Wheatgrass	1.52	0.60	1.79%	4.53%
	Elymus villosus	Silky Wild Rye	1.21	0.60	1.43%	4.53%
	Koeleria macrantha	June Grass	3.67	0.05	4.32%	0.38%
	Schizachyrium scoparium	Little Bluestem	22.04	4.00	25.93%	30.19%
	Sporobolus heterolepis	Prairie Dropseed	0.29	0.05	0.35%	0.38%
		Total Guild:	50.47	10.25	59.41%	77.37%
		TOTAL SEED MIX	**84.97**	**13.29**	**100%**	**100%**

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EOR water ecology community
EMMONS & OLIVIER RESOURCES, INC.
1919 UNIV. AVE. W. #300 ST. PAUL, MN
TEL: 651.770.8448 WWW.EORINC.COM

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

KYLE D. CRAWFORD DATE: 02/18/2025 LICENSE #54906

DATE	NO.	DESCRIPTION
02/18/2025	1	IFPR - ISSUED FOR PERMIT REVIEW
	2	
	3	
	4	
	5	
	6	

DESIGNED BY: ERK
DRAWN BY: BMP
CHECKED BY:KDC
EOR JOB #1518-0020

CEDAR CREEK energy

LANDFILL SOLAR

RAMSEY, ANOKA COUNTY, MINNESOTA

CEDAR CREEK ENERGY RAMSEY, MINNESOTA, 55303

RESTORATION NOTES

SHEET 09 OF 11

Plot Date: 02/15/2025
Drawing name: X:\Clients_Private\01518_Cedar_Creek_Energy\0020_Connexus_Landfill_Solar\09_GIMS\dwg\Sheets\01518_0020_Site_Plan.dwg
Xrefs: 401518_0020_Edgelines 401518_0020_EX_Edgelines ; Images: J:\2_Templates_EOR Imperial CAD Templates\Title Blocks\image xrefs\811 ..\..\..\0014_CSG_CEF_Mankato\09_GIMS\Images\CEADAR CREEK LOGO J:\2_Templates_EOR Imperial CAD Templates\Title Blocks\image xrefs\GSOCLogo_2019