

2017 WESTERN WATERFRONT VEGETATION RESTORATION PROJECT PHASE III

INDEX	
SHEET NUMBER	SHEET TITLE
1	TITLE SHEET
2	QUANTITIES
3	RESTORATION AREA LOCATIONS

DESIGNED RP
DRAWN NM
CHECKED JG

EXISTING UTILITY LOCATIONS

BASE BID IS TO PERFORM WORK ADJACENT TO WESTERN WATERFRONT TRAIL AT KNOWLTON CREEK:

1. A. REMOVE AND CONTROL NON-NATIVE INVASIVE PLANT SPECIES ON 48 ACRES.

THIS AREA HAS A LIGHT DENSITY OF INFESTATION:

- i. COMMON BUCKTHORN
- ii. EURASIAN HONEYSUCKLE
- iii. HERBACEOUS NON-NATIVE PLANTS

- B. REMOVE AND CONTROL MDA NOXIOUS WEEDS:

- i. TANSY
- ii. CANADA THISTLE
- iii. PURPLE LOOSESTRIFE
- iv. WILD PARSNIP
- v. GARLIC MUSTARD
- vi. JAPANESE KNOTWEED

- C. REMOVE AND CONTROL MNDNR INVASIVE SPECIES:

- i. BIRD'S FOOT TREFOIL
- ii. CROWN VETCH
- iii. PERENNIAL SOWTHISTLE
- iv. WHITE AND YELLOW SWEET CLOVER

2. KNOWLTON CREEK AREA: (SEE SPECIFICATIONS SP-8 AND SP-8.1.1)

THE MINNESOTA DNR HAS COMPLETED A STREAM RESTORATION PROJECT IN THIS AREA. CONTRACTOR TO PLANT 500 WHITE CEDAR (*THUJA OCCIDENTALIS*) AND 500 WHITE PINES (*PINUS STROBUS*) ALONG THE KNOWLTON CREEK RESTORATION AREA AND THROUGH THE FOREST TO PROVIDE REGENERATION. PLANTING ZONES IDENTIFIED ON SHEET 3 OF PLAN.




ADD ALTERNATE 1: (SEE SPECIFICATIONS SP-8.2.1)

RESTORE AREA FROM INVASIVE SPECIES INFESTATION AND PLANT A 6 ACRE POLLINATOR MEADOW / NORTHERN MINNESOTA POLLINATOR PLOT. WORK INCLUDES HERBICIDE TREATMENT, SEED BED PREPARATION, SEEDING WITH BWSR PILOT SEED MIX, AND SIGNAGE.

CONSTRUCTION NOTES:

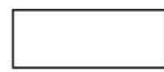
- 1. CONTRACTOR TO MAKE TRAIL CLOSURE PER SPECIFICATIONS WHEN PERFORMING WORK IMPACTING THE USE OF THE WESTERN WATERFRONT TRAIL. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEMS FOR THE REMOVAL OF INVASIVE SPECIES. IF WORK IS NOT DIRECTLY AFFECTING THE USE OF THE TRAIL, SMALL PLACARDS / SIGNS CAN BE USED ALONG THE TRAIL TO ALERT THE PUBLIC TO ONGOING INVASIVE SPECIES TREATMENT.
- 2. REFER TO SPECIAL PROVISIONS AND PLAN SHEETS FOR THE COVER CLASS AND PRESCRIBED TREATMENT OF EACH SPECIES OF INVASIVE. WORK UNDER THIS PROJECT IS CLASSIFIED AS LIGHT DENSITY.
- 3. GPS FILES WILL BE MADE AVAILABLE TO THE SELECTED CONTRACTOR SHOWING BUCKTHORN REMOVAL AREAS.
- 4. A GIS SHAPE FILE WILL BE MADE AVAILABLE TO THE SELECTED CONTRACTOR WHICH SHOWS THE PROJECT LIMITS. CONTRACTOR SHALL UTILIZE GPS OR SIMILAR TECHNOLOGY TO REMAIN WITHIN THE WORK LIMITS AT ALL TIMES. CONTRACTOR IS RESPONSIBLE FOR ENSURING THEIR REMOVAL OPERATIONS ARE WITHIN THE BOUNDARY LIMITS OF THE PROJECT.

FIELD BOOK:
Pkt Date: 10/05/2017
Drawing Name: P:\herman-town-01\atl\proj\atl\TKDA\15850.001-HWFT - Restoration\C3D\Phase II\SEQ.dwg
Xref:

				DESIGNED RP	DRAWN NM	<div>I HEREBY CERTIFY THAT THIS PLAN 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 JEFFREY S. GOETZMAN DATE 10/05/2017 LIC. NO. 26422</div>	 <div>11 E. Superior St. Suite 420 Duluth, MN. 55802 218.724.8578 tkda.com</div>	 <div>302 W. Superior St. Suite 70 Duluth, MN. 55802 218.336.2280 lbgweb.com</div>	2017 WESTERN WATERFRONT VEGETATION RESTORATION PROJECT PHASE III		QUANTITIES	PROJECT NO. 15850.001	
DULUTH		MINNESOTA		RECORD NO.	SHEET NO. 2								
CITY PROJECT NO.		MSA NO.											
NO.	DATE	BY	DESCRIPTION OF REVISIONS	CHECKED JG									
1	10/5/17	NDM	REDUCED AREA OF ADD. ALTERNATE #1 FROM 8 ACRES TO 6 ACRES										



48 Acre Restoration Area (Base Bid)*



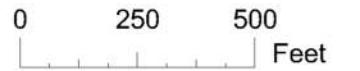
5.5 Acre White Cedar Planting Area (Base Bid)*



6 Acre Pollinator Meadow (Add. Alternate 1)*



*See Specifications for specific treatment and planting requirements



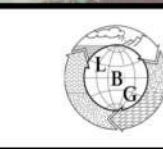
FIELD BOOK
 File Name: 15850.001
 Drawing Name: 15850.001 - WWFT - Restoration C3D Phase II DATA SHEETS.dwg
 Xref:

NO.	DATE	BY	DESCRIPTION OF REVISIONS
1	10/5/17	NDM	REDUCED AREA OF ADD. ALTERNATE #1 FROM 8 ACRES TO 6 ACRES

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 JEFFREY S. GOETZMAN
 DATE 10/05/2017 LIC. NO. 26422

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2017 WESTERN WATERFRONT
 VEGETATION RESTORATION PROJECT
 PHASE III
 DULUTH MINNESOTA
 CITY PROJECT NO. MSA NO.

RESTORATION AREAS

PROJECT NO. 15850.001	SHEET NO. 3
RECORD NO.	