

BUFFER SHRUB PLANTING				
	COMMON NAME	BOTANICAL NAME	TOTAL PLANTINGS	SIZE AT PLANTING
	OSTRICH FERN	MATTEUCCIA STRUTHIOPTERIS	30	4" POT
☼	BLACK CHOKEBERRY	ARONIA MELONOCARPA	6	1 GAL.
☼	PAGODA DOGWOOD	CORNUS ALTERNIFOLIA	6	1 GAL.
○	WHITE ELDERBERRY	SAMBUCUS GAUDICHAUDIANA	4	1 GAL.
●	RED ELDERBERRY	SAMBUCUS RACEMOSA	4	1 GAL.
○	SNOWBERRY	SYMPHORICARPOS ALBUS	4	1 GAL.
◡	WINTERBERRY	ILEX VERTICILLATA	4	1 GAL.
TOTAL FERNS			30	
TOTAL SHRUBS			28	

BUFFER AND TREE PLANTING NOTES:

- REQUIRED PLANTINGS:
-48 PER PUD ORDINANCE
-21 PER DNR SHORELAND ORDINANCE
- REFER TO GRADING & EROSION CONTROL PLAN FOR APPLICABLE SITE GRADING, DE-COMPACTION, SCARIFYING, AND RESTORATION NOTES.
- REFER TO DETAIL PLANS FOR TREE AND SHRUB INSTALLATIONS.
- PLANT BLACK HILLS SPRUCE TREES WITH 20' SPACING TO GIVE ROOM FOR GROWTH.
- TREE LOCATIONS ON PLAN SHEET ARE APPROXIMATE.
- DO NOT APPLY FERTILIZER IN WETLAND BUFFER AREAS.
- AFTER HOME CONSTRUCTION, 4 INCHES OF COMPOST IS TO BE TILLED INTO THE TOP 8 INCHES OF SOIL.

BUFFER RESTORATION NOTES:

- SITE PREPARATION FOR 34-261 SEED OR EQUAL SHOULD INCLUDE PLANTING ON A FIRM SEEDBED TO ELIMINATE PLANTING TOO DEEP AND BE LIGHTLY COVERED WITH SOIL. IF HYDROSEEDING, LOOSEN TOPSOIL A MINIMUM OF 3 INCHES.
- REQUIRED PLANTINGS AND SOD SHOULD BE COMPLETED IN EARLY FALL. SEEDING TO BE COMPLETED BETWEEN SEPTEMBER 20-OCTOBER 20.
- IN THE SPRING, INSPECTION FOR GROWTH IN THE BUFFER SHOULD BE COMPLETED MONTHLY TO ENSURE ACTIVE GROWTH. IF THERE ARE AREAS OF NO ESTABLISHMENT, PLANTINGS SHOULD BE REPLACED FOR A PERIOD OF THREE YEARS BY HOMEOWNERS ASSOCIATION.
- SEED MIX 34-261 OR EQUAL TO BE SEEDED WITHIN THE WETLAND BUFFER AT A RATE OF 31.5 LBS./ACRE, MIXED WITH ANNUAL RYE AT THE RATE OF 6 LBS./ACRE IN PREPPED BED FREE OF INVASIVE SPECIES. USE WOOD FIBER EROSION CONTROL BLANKET WHERE NEEDED.
- FOR MAINTENANCE, IT IS RECOMMENDED TO MOW IN AREAS OF SEED 2 OR 3 TIMES 30 DAYS APART WITH THE MOWER DECK 6"-8" OFF THE GROUND DURING THE FIRST YEAR.
- REFER TO DETAIL PLANS FOR TREE AND SHRUB INSTALLATIONS.
- CLEAR AND DISPOSE OF ALL NOXIOUS SPECIES WITHIN THE HEIFORT POND BUFFER. DO NOT GRUB, TREAT STUMPS ONLY. RESTORE BUFFER PER PLAN.
- TREAT BUCKTHORN SAPPLINGS AND SHRUBS BY CUTTING AND TREATING STUMP WITH WATER SAFE HERBICIDE TRICLOPYR.
- SPOT TREAT REED CANARY GRASS NEAR WETLANDS WITH WATER SAFE HERBICIDE GLYPHOSATE (e.g. RODEO) WHILE PROTECTING NATIVE SPECIES.
- PLANT LOCATIONS ON PLAN SHEET ARE APPROXIMATE.
- DO NOT APPLY FERTILIZER, COMPOST OR MULCH IN WETLAND BUFFER AREAS. USE WOOD FIBER EROSION CONTROL BLANKET WHERE NEEDED.

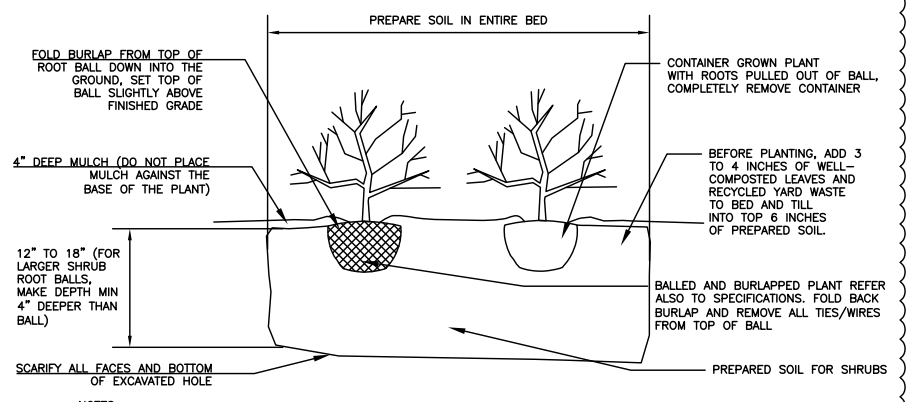
CUSTOM SEED MIXTURE	
COMMON NAME	BOTANICAL NAME
COMMON WOOD SEDGE	CAREX BLANDA
FOX SEDGE	CAREX
PLAINS OVAL SEDGE	CAREX BREVIOR
COMMON FOX SEDGE	CAREX STIPATA
BEBB'S SEDGE	CAREX BEBBII
SWITCH GRASS	PANICUM VIRGATUM
FOWL MANNA GRASS	GLYCERIA STRIATA
PRAIRIE BROME	BROMUS CILIATUS
BOTTLEBRUSH GRASS	ELYMUS HYSTIX
BLUE-JOINT GRASS	CALAMAGROSTIS CANADENSIS
FRAGRANT GIANT HYSSOP	AGASTACHE FOENICULUM
TALL BELLFLOWER	CAMPANULA AMERICANA
FIREWEED	CHAMAENERION ANGUSTIFOLIUM
BONESET	EUPATORIUM PERFOLIATUM
SNEEZEWEED	HELENIUM AUTUMNALE
GREAT BLUE LOBELIA	LOBELIA SIPHILITICA
WILD BERGAMOT	MONARDA FISTULOSA
FOXGLOVE BEARDTONGUE	PENSTEMON DIGITALIS
MARSH MILKWEED	ASCLEPIAS INCARNATA
WILD GOLDEN GLOW	RUDBECKIA LACINIATA
GOLDEN ALEXANDERS	ZIZIA AUREA
SKY BLUE ASTER	SYMPHYOTRICHUM OOLENTANGIENSE

- NOTES:**
- FERNS SHALL BE PLANTED 3 FEET ON CENTER OVER THE AREA NOTED.
 - WILDFLOWER SEED SHALL BE DISPERSED OVER THE AREA OF BARE GROUND.
 - 34-261 SEED OR EQUAL OVER ALL NON ESTABLISHED AREAS.

34-261 SEED (OR EQUAL) WITH ANNUAL RYE (SEE NOTE 4) 8,087 SF

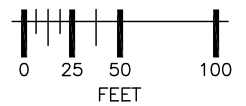
KENTUCKY BLUEGRASS SOD 1,278 SY

*OSTRICH FERN AND GROUND COVER SEED 9,894 SF



TYPICAL SHRUB PLANTING
RFC 860B

Not To Scale



DATE	REVISION HISTORY	DATE	REVISION HISTORY	DATE	REVISION HISTORY
8/27/20	BUFFER RESTORATION-WATERSHED				
9/9/20	WATERSHED BUFFER COMMENTS				
9/14/20	WATERSHED BUFFER COMMENTS				
10/30/20	WATERSHED BUFFER COMMENTS				



UTILITIES:

CENTURYLINK	(763) 712-5017
CENTERPOINT ENERGY	(763) 323-2760
COMCAST	(952) 607-4078
CONNEXUS ENERGY	(763) 323-4268
GREAT RIVERS ENERGY	(763) 445-5984
KOCH PIPELINE	(952) 832-2684
	(952) 807-4183
XCEL ENERGY	(612) 526-4508

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

Thomas P. Galina

DATE 01/18/18 REG. NO. 26471

RFC ENGINEERING, INC.
Consulting Engineers

13635 Johnson Street
Ham Lake, MN 55304
Telephone 763-862-8000
Fax 763-862-8042

HEIFORT HILLS ESTATE
STILLWATER, MN

BUFFER RESTORATION PLAN

DWG: 1708BUFFERSTORAT
DATE: 01/17/18
JOB NUMBER: 1708
SHEET: 1 OF 1
FILE: 33-1-140

DESIGN BY: CSA/ALW/JNK DRAWN BY: CSA/ALW/JNK CHECKED BY: TPC