

Revision Schedule		
Number	Revision	Date

Registrations

Consultants

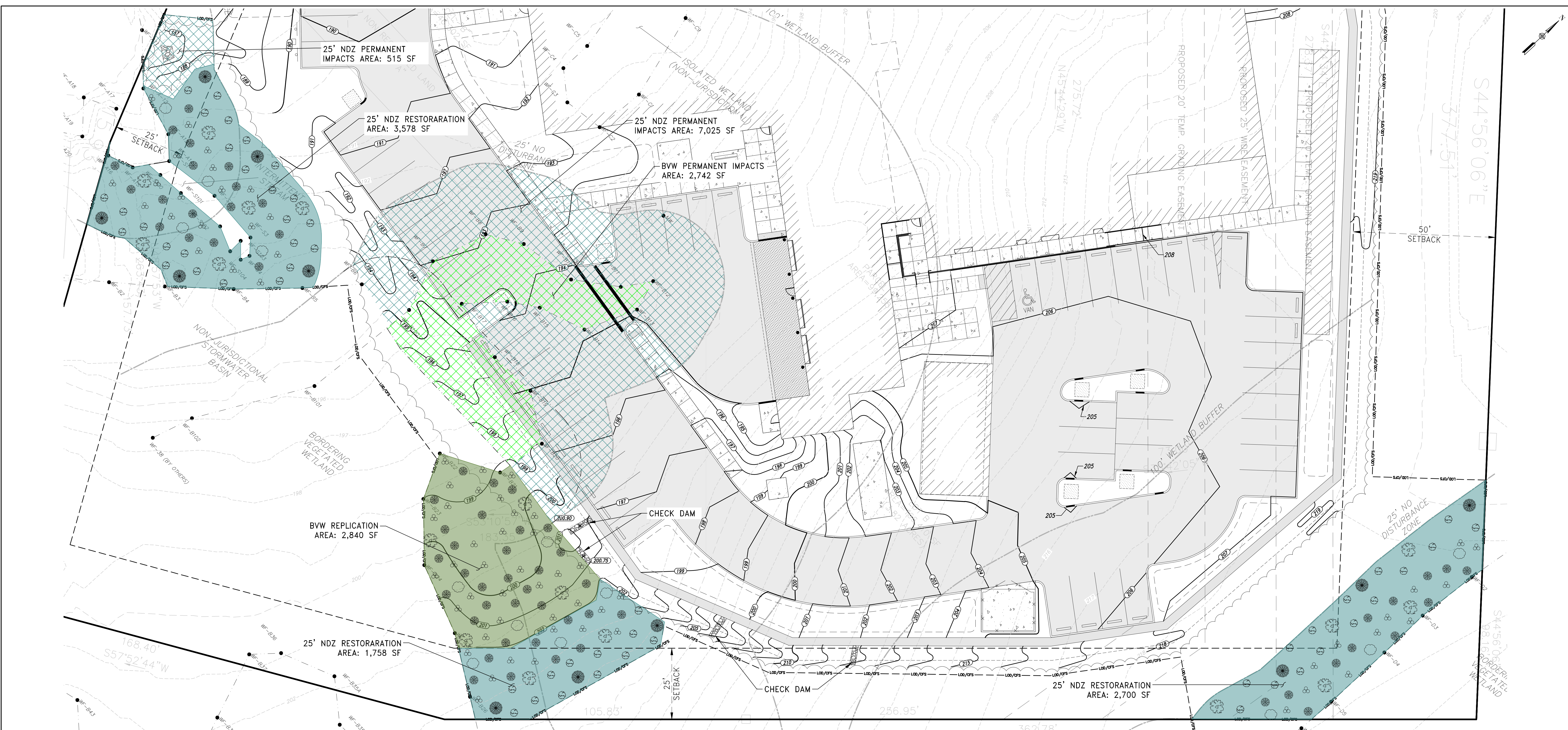


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Project
ASHLAND PUBLIC SAFETY COMPLEX
12-16 UNION STREET, ASHLAND, MA

WETLAND IMPACT MITIGATION PLAN

AWB LM
Drawn by LM
Checked by
Date: OCTOBER 23, 2020
17044.03 AS NOTED
Job number
CONSTRUCTION DOCUMENTS
Drawing set
Drawing number



WETLAND REPLICATION PLAN
SCALE: 1"=20'

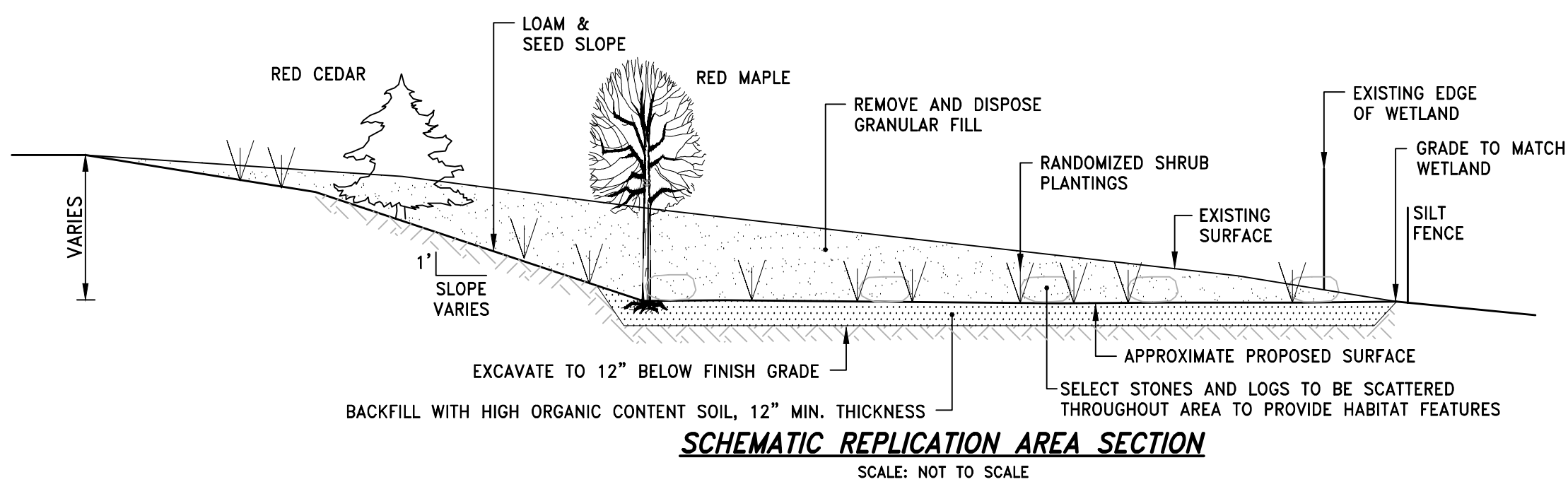
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GENERAL NOTES:

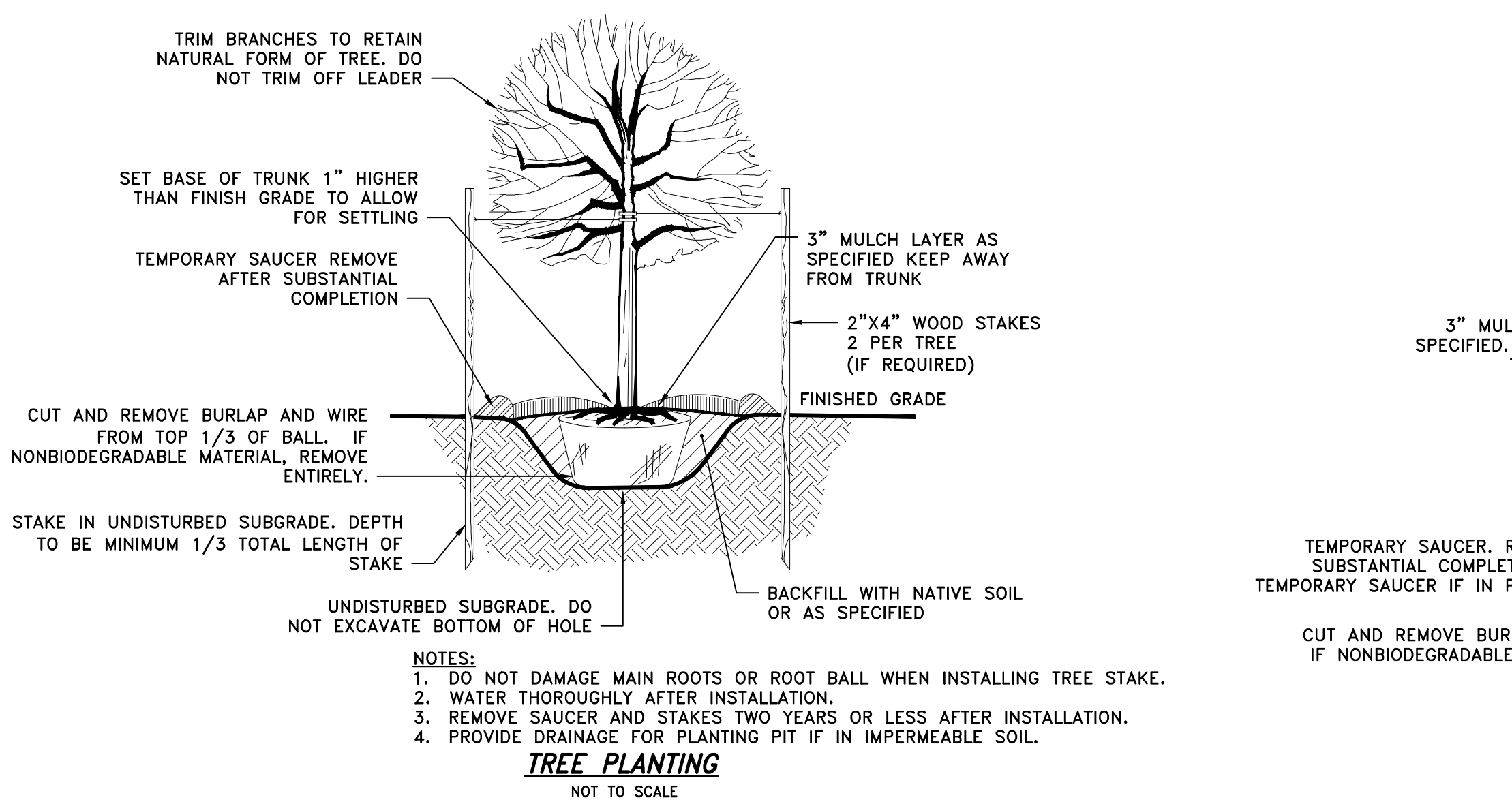
- THE PURPOSE OF THIS PLAN IS TO PROVIDE 1:1 MITIGATION FOR UNAVOIDABLE PERMANENT IMPACTS TO 2,742 SF OF BORDERING VEGETATED WETLANDS (BVW) AND 7,550 SF OF 25-FOOT NO DISTURBANCE ZONE (NDZ) ASSOCIATED WITH THE ASHLAND PUBLIC SAFETY COMPLEX PROJECT.
- THE PROPOSED MITIGATION SITE IS A DISTURBED SLOPE ADJACENT TO THE PROJECT LIMITS OF DISTURBANCE COLONIZED BY EARLY SUCCESSIONAL VEGETATION INCLUDING SEVERAL INVASIVE SPECIES. THE AREA WILL BE GRADED TO THE ELEVATION OF THE ADJACENT BVW WILL PROVIDE UP TO 2,840 SF OF REPLACEMENT BVW. THREE AREAS OF 25' NDZ ON THE PROPERTY TOTALING 8,036 SF WILL BE IMPROVED BY REMOVING INVASIVE VEGETATION AND PLANTING THE AREAS WITH NATIVE VEGETATION.
- CONSTRUCTION PHASE EROSION CONTROL IS TO BE INSTALLED AS SHOWN PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OF THE MITIGATION AREA AND SHALL REMAIN IN PLACE UNTIL ALL EXPOSED SOIL WITHIN AND ADJACENT TO THE MITIGATION AREA HAS BEEN STABILIZED. SILTATION FENCE ALONE IS TO BE USED AT THE CONTACT BETWEEN THE EXISTING WETLANDS AND THE MITIGATION AREA.
- NO TREE CLEARING WILL OCCUR DURING MITIGATION AREA CONSTRUCTION. IF TREES ARE IDENTIFIED WITHIN THE VICINITY OF THE AREA, THEY SHALL BE FLAGGED WITH A READILY IDENTIFIABLE MARKING AND PROTECTED FROM DAMAGE. GRADING AND EXCAVATION AROUND TREES SHALL BE UNDERTAKEN WITH CARE TO AVOID DAMAGE TO ROOT SYSTEMS.
- THE BOTTOM OF THE WETLAND MITIGATION AREA IS TO BE EXCAVATED TO 1" BELOW FINISH GRADE AND BACKFILLED TO GRADE WITH A 1:1 MIX OF LOAM AND ORGANIC COMPOST TO PROVIDE A SUITABLE MEDIUM FOR THE PROPOSED WETLAND PLANTINGS.
- SUBGRADE ELEVATION IS TO BE ESTABLISHED IN THE FIELD AT THE TIME OF CONSTRUCTION AND OBSERVED BY A WETLAND SCIENTIST. THE SUBGRADE WILL POSSESS SUBTLE VARIATION TO MIMIC NATURAL WETLAND CONDITIONS. THE INTENT IS TO MATCH EXISTING GRADES AT THE WETLAND EDGE TO PROVIDE A SEASONALLY FLOODED HYDROLOGY.
- PLANTINGS WITHIN THE REPLICATED BVW AND NDZ ARE TO BE COMPLETED IN ACCORDANCE WITH THE TABLE SHOWN HEREIN. PLANTINGS SHOULD BE ARRANGED AT A RANDOM SPACING TO MIMIC NATURAL CONDITIONS. APPROPRIATE SUBSTITUTIONS MAY BE ALLOWED WITH THE APPROVAL OF THE TOWN AND WETLAND SCIENTIST.
- ANY WOODY DEBRIS OR BOULDERS ENCOUNTERED DURING THE EXCAVATION MAY REMAIN WITHIN THE AREA TO ENHANCE HABITAT VALUE. LOGS OR OTHER WOODY DEBRIS MAY BE SALVAGED FOR REUSE AS HABITAT FEATURES WITHIN THE RESTORATION AREA.
- AFTER FINISH GRADING AND PLANTING, THE BOTTOM OF THE RESTORED WETLAND SHALL BE SEEDED WITH WETLAND SEED MIX AS SPECIFIED IN THE PLANTING TABLE.
- SIDE SLOPES WITHIN THE 25' NDZ ARE TO BE COVERED WITH A MINIMUM OF 4" LOAM, PLANTED IN ACCORDANCE WITH THE PLANTING TABLE, AND HAND SEEDED OR HYDROSEEDED WITH AN APPROPRIATE UPLAND SEED MIX CONTAINING NATIVE GRASSES AND LEGUMES.

GENERAL CONSTRUCTION SEQUENCE:

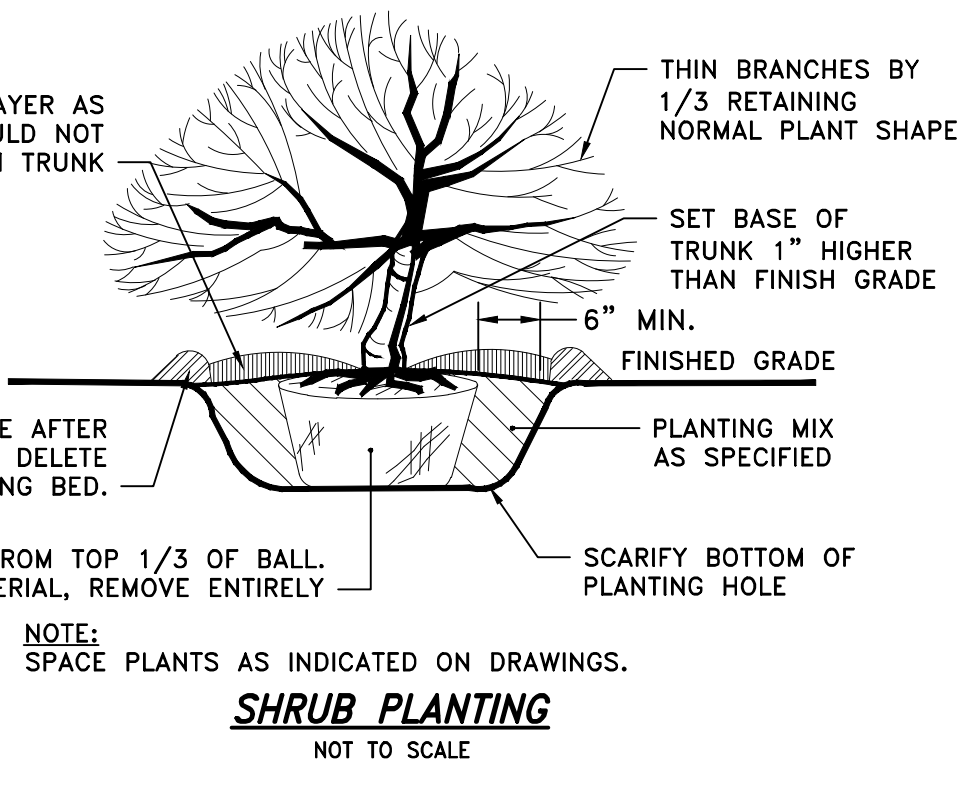
- REPLACE ANY MISSING WETLAND FLAGS IN THE LOCATION OF THE MITIGATION AREA. MARK LIMIT OF DISTURBANCE AND LIMIT OF REPLICATED BVW.
- INSTALL CONSTRUCTION PHASE EROSION AND SEDIMENTATION CONTROL BETWEEN EXISTING WETLAND AND MITIGATION AREA.
- REMOVE EXISTING VEGETATION FROM THE REPLICATED WETLAND TO BE EXCAVATED. SALVAGE SELECT LOGS OR WOODY DEBRIS AND SET ASIDE FOR REUSE AS HABITAT FEATURES. REMOVE ALL INVASIVE VEGETATION, INCLUDING ROOT SYSTEMS, FROM THE UPLAND AREA WITHIN 25 FEET OF THE REPLICATED WETLAND.
- EXCAVATE REPLICATED WETLAND AREA, SHAPE TO SUBGRADE, AND INSTALL SUPPLEMENTAL WETLAND SOILS TO FINISH GRADE. PLACE SALVAGED BOULDERS AND WOODY MATERIAL AT RANDOM SPACING WITHIN THE AREA. PLACE LOAM ALONG THE UPLAND SIDE SLOPES.
- INSTALL SAPLING AND SHRUB PLANTINGS PER PLANTING TABLE. SPRING TREE AND SHRUB PLANTINGS SHOULD TAKE PLACE BETWEEN MARCH 1 AND JUNE 15. FALL TREE AND SHRUB PLANTINGS SHOULD OCCUR BETWEEN SEPTEMBER 1 AND DECEMBER 1.
- INSTALL SEED MIXES IN BVW AND NDZ IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
- WATER AS NECESSARY TO PRODUCE VIGOROUS GROWTH.



SCHEMATIC REPLICATION AREA SECTION
SCALE: NOT TO SCALE

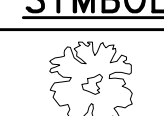
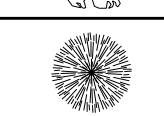
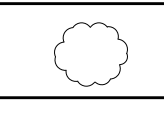
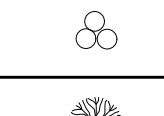



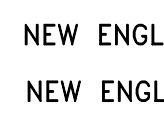


- NOTES:**
- DO NOT DAMAGE MAIN ROOTS OR ROOT BALL WHEN INSTALLING TREE STAKE.
 - WATER THOROUGHLY AFTER INSTALLATION.
 - REMOVE SAUCER AND STAKES TWO YEARS OR LESS AFTER INSTALLATION.
 - PROVIDE DRAINAGE FOR PLANTING FIT IF IN IMPERMEABLE SOIL.
- TREE PLANTING**
NOT TO SCALE



SHRUB PLANTING
NOT TO SCALE

PLANTING TABLE

SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE	QUANTITY	SPACING	PLACEMENT
	RED MAPLE	ACER RUBRUM	4' MIN.	17	20' O.C. ±	PERIMETER OF BVW, NDZ
	EASTERN RED CEDAR	JUNIPERUS VIRGINIANA	3' MIN.	11	20' O.C. ±	UPPER HALF OF NDZ
	GRAY BIRCH	BETULA POPULIFOLIA	4' MIN.	13	RANDOM (6'-8' O.C.)	BVW, LOWER HALF OF NDZ
	SPECKLED ALDER	ALNUS RUGOSA	1-3'	68	RANDOM (6'-8' O.C.)	BVW, LOWER HALF OF NDZ
	SILKY DOGWOOD	CORNUS AMOMUM	1-3'	62	RANDOM (6'-8' O.C.)	BVW, LOWER HALF OF NDZ
	SWEETFERN	COMPTONIA PEREGRINA	1-3'	52	RANDOM (8'-10' O.C.)	UPPER HALF OF NDZ
	NATIVE WETLAND SEED MIX*	----	----	----	THROUGHOUT	BVW
	NATIVE UPLAND SEED MIX**	----	----	----	THROUGHOUT	NDZ

* NEW ENGLAND WETLAND PLANTS WETMIX OR APPROVED EQUIVALENT.
** NEW ENGLAND WETLAND PLANTS CONSERVATION/WILDLIFE SEED MIX OR APPROVED EQUIVALENT.