



**LEGEND OF ABBREVIATIONS & SYMBOLS**

EXISTING 2-FOOT CONTOUR	---148---
EXISTING 10-FOOT CONTOUR	---150---
EXISTING SPOT ELEVATION	x 149.98
EDGE OF WOODS	~ ~ ~
SILT SOCK	○
BURLAP NETTING	--- ---
PAINTED GAS LOCATION	G
EDGE OF BORDERING VEGETATED WETLAND	- - - A1
25' NO DISTURB ZONE	---25---
75' NO BUILD ZONE	---75---
100' WETLAND BUFFER ZONE	---100---
INTERMITTENT STREAM	---IS1---
UTILITY POLE	○
MONITORING WELL	○
CONCRETE	CONC.
INVERT	INV.

**PROPOSED WETLAND/BUFFER ZONE RESTORATION AREA CONSTRUCTION METHODOLOGY**

1. EROSION CONTROLS SHALL BE INSTALLED IN THE LOCATIONS SHOWN IN THE PLAN VIEW. IT IS IMPORTANT TO NOTE THAT EROSION CONTROLS ARE PROPOSED ABOVE AND AROUND THE ENTIRE RESTORATION AREA.
2. THE SLOPE LEADING DOWN TO THE BVW SHALL BE COVERED WITH RIPRAP TO THE BVW BOUNDARY.
3. THE RIPRAP SURFACE SHALL BE COVERED WITH 8-12-INCHES OF LOAM AND THEN BE SEEDED WITH NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DRY SITES AT AN APPLICATION RATE OF 1,250 S.F. PER POUND.
4. FOLLOWING THE SEEDING EFFORT, THE SLOPE SHALL BE COVERED WITH A STRAW EROSION CONTROL BLANKET TO HOLD THE SLOPE WHILE THE SEED MIX GERMINATES. USE NORTH AMERICAN GREEN DS150, OR EQUAL.
5. THE TEMPORARY PLASTIC SHEETING, BURLAP, AND TIRES SHALL BE REMOVED FROM THE BORDERING VEGETATED WETLANDS (BVW). THE BURLAP COVERING THE SLOPE ABOVE THE BVW SHALL REMAIN.
6. THE SURFACE OF THE WETLAND RESTORATION AREA SHALL BE EXCAVATED, UNDER THE DIRECTION OF A PROFESSIONAL WETLAND SCIENTIST (PWS), TO REMOVE ANY SEDIMENT AND DEBRIS THAT MAY HAVE ERODED INTO THE BVW. THE GOAL IS TO REMOVE SEDIMENT AND TO SCARIFY THE SURFACE TO PREPARE IT FOR SOIL AMENDMENTS.
7. SOIL AMENDMENTS SHALL BE ADDED TO THE RESTORATION AREA, TO BRING THE FINISH GRADE UP TO THE ELEVATION OF THE SURROUNDING BVW THAT WAS NOT IMPACTED. A MIXTURE OF EQUAL VOLUMES OF ORGANIC AND MINERAL MATERIALS SHALL BE DEPOSITED INTO THE RESTORATION AREA UNTIL THE PROPOSED FINISH GRADE IS ACHIEVED. THE SOIL AMENDMENTS SHALL BE UNCONTAMINATED AND SHOULD NOT INCLUDE ANY WOODCHIPS. CLEAN LEAF COMPOST IS THE PREFERRED SOIL AMENDMENT TO ACHIEVE THIS STANDARD. MINERAL MATERIALS SHOULD BE PREDOMINANTLY IN THE LOAM, LOAMY SAND TO SILT LOAM TEXTURE RANGE, WITH MINIMAL QUANTITIES OF GRAVEL OR ROCK. TO INSURE PROPER HYDROLOGY IS ACHIEVED THIS WORK SHALL BE DONE UNDER THE DIRECTION OF A PWS.
8. ONCE PROPER HYDROLOGY IS ACHIEVED AND THE SOIL AMENDMENTS HAVE BEEN ADDED, THE AREA SHALL BE PLANTED WITH THE SPECIES SPECIFIED USING HAND TOOLS UNDER THE DIRECTION OF A PWS. SPECIES SHALL BE ACQUIRED FROM A NURSERY SPECIALIZING IN THE PROPAGATION OF WETLAND PLANTS.
9. FOLLOWING THE PLANTING EFFORT THE AREA SHALL BE SCARIFIED USING A STEEL RAKE AND THEN SEEDED WITH THE SPECIFIED SEED MIX AT THE SPECIFIED APPLICATION RATE. NOTE: THE RECOMMENDED APPLICATION RATE HAS BEEN DOUBLED TO ACHIEVE PROPER COVERAGE AND STABILIZATION.
10. FOLLOWING THE PLANTING EFFORT, AT LEAST 75% OF THE SURFACE OF THE REPLACEMENT AREA MUST BE RE-ESTABLISHED WITH INDIGENOUS WETLAND PLANT SPECIES WITHIN TWO (2) GROWING SEASONS. MONITORING WILL OCCUR DURING THIS PERIOD AND SPECIES SHALL BE REPLACED UNDER THE DIRECTION OF A PWS UNTIL AT LEAST 75% COVERAGE IS ACHIEVED. IF AT THE END OF THE SECOND COMPLETE GROWING SEASON PROPER COVERAGE IS NOT ACHIEVED, MONITORING SHALL CONTINUE UNTIL PROPER COVERAGE IS ACHIEVED. DURING THE MONITORING PERIOD INVASIVE SPECIES SHALL BE REMOVED BY HAND PULLING AND BE REMOVED FROM THE SITE.

**PROPOSED WETLAND RESTORATION/BUFFER ZONE RESTORATION AREA SPECIES LIST**

- WETLAND REPLICATION AREA SPECIES LIST:**
- A. (5) - 3'- 4' HIGHBUSH BLUEBERRY VACCINIUM CORYMBOSUM
  - B. (3) - 4'- 6' RED MAPLE ACER RUBRUM
  - C. (4) - #1 SENSITIVE FERN ONOCLEA SENSIBILIS
  - D. (6) - 3'- 4' WINTERBERRY HOLLY ILEX VERTICILLATA
  - E. (6) - 3'- 4' SILKY DOGWOOD CORNUS AMOMIUM
  - F. (11) - #1 CINNAMON FERN OSMUNDA CINNAMOMEA
- SEED MIX:**  
 NEW ENGLAND WETLAND SEED MIX  
 APPLICATION RATE: 1 LB/ 1,250 sq. ft.  
 (NOTE: APPLICATION RATE DOUBLED)

- NOTES:**
1. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
  2. EXISTING TOPOGRAPHY SHOWN IS THE RESULT OF AN ACTUAL INSTRUMENT SURVEY CONDUCTED BY WILLIAMS & SPARAGES LLC ON AUGUST 28, 2022 AND SEPTEMBER 13, 2022.
  3. WETLAND RESOURCE AREAS DELINEATED BY WILLIAMS & SPARAGES LLC ON AUGUST 2, 2022.

**PLAN TO ACCOMPANY A NOTICE OF INTENT IPSWICH ROAD BOXFORD, MA**

SCALE: 1" = 10' DATE: OCTOBER 24, 2022  
 SHOWING PROPOSED RESTORATION OF RESOURCE AREAS

