

**NARRAGANSETT ENGINEERING, INC.**  
 3102 EAST MAIN ROAD,  
 PORTSMOUTH, RI 02871  
 TEL : (401) 683-6630  
 FAX : (401) 683-6638  
 1162 G.A.R. HIGHWAY (ROUTE 6)  
 TOWN TERRACE UNIT 7  
 SWANSEA, MA 02777  
 TEL : (508) 730-1881  
**THE MEADOWS PROFESSIONAL OFFICE PARK**  
 1130 TEN ROD ROAD  
 SUITE E 206 C  
 NORTH KINGSTOWN, RI 02852  
 www.nei-cds.com



SHEET TITLE  
**DETAILS AND NOTES**

APPLICANT/OWNER  
 OLIVEIRA, MICHAEL  
 71 SHORE DRIVE  
 BARRINGTON, R.I. 02806

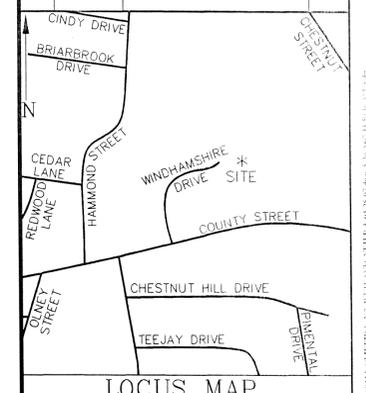
LOCATION  
 WINDHAMSHIRE DRIVE  
 SEEKONK, MA 02771

PLAT: 10 LOT: 282



PROJECT #	DATE	DRAWN	CHECK
060114	10-10-06	HCP	KH

REVISIONS			
NO.	DATE	DESCRIPTION	BY



**LOCUS MAP**

SHEET	SCALE
3 OF 4	NTS

**EROSION AND SEDIMENTATION CONTROL NOTES:**

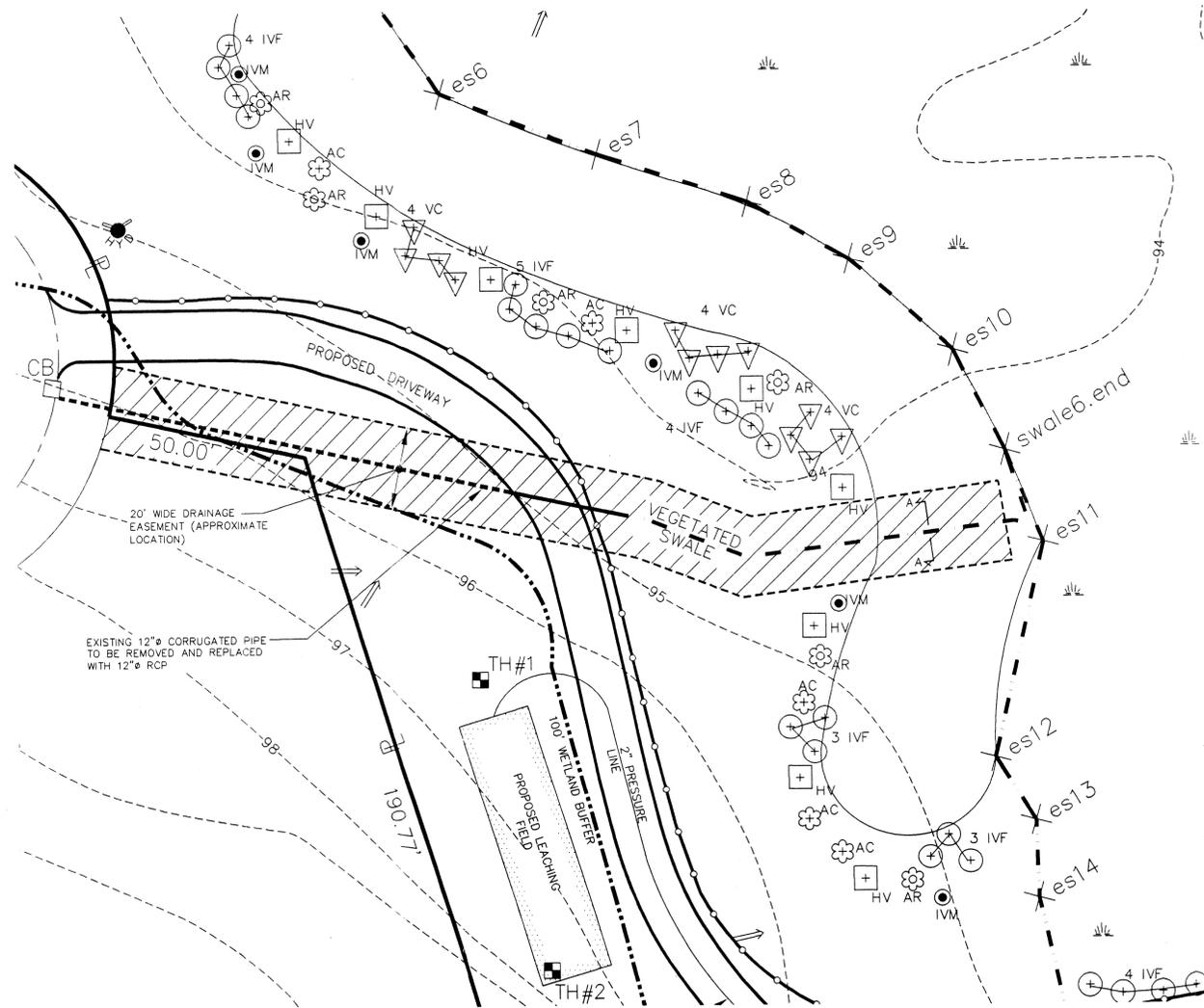
- APPROPRIATE PRECAUTIONS SHALL BE TAKEN TO PREVENT THE TRACKING OF SOIL FROM CONSTRUCTION. EQUIPMENT ONTO PAVED ROADWAYS LOCATED BEYOND WORK LIMITS OR CONSTRUCTED AS A PART OF THE PROJECT.
- ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF EARTHWORK.
- NO WORK IS TO OCCUR ON THE WETLAND SIDE OF THE PERIMETER CONTROLS. ALL PERIMETER CONTROLS SERVE AS THE LIMIT OF CLEARING, SURFACE DISTURBANCE, AND WORK IN GENERAL. ACCORDINGLY, NO STONES, BRUSH, CONSTRUCTION DEBRIS, LITTER, OR OTHER MATERIALS ARE TO BE DEPOSITED ON THE WETLAND SIDE OF THE PERIMETER EROSION AND SEDIMENTATION CONTROLS AND/OR LIMITS OF DISTURBANCE.
- THE ENGINEER RESERVE THE RIGHT TO SPECIFY ADDITIONAL CONTROLS AS CONDITIONS MAY WARRANT. ACCESSIBLE RESERVES OF SILT FENCE, HAY BALES, STAKES, AND CRUSHED STONES ARE TO BE MAINTAINED ON SITE FOR ROUTINE MAINTENANCE AND IN THE EVENT OF UNANTICIPATED PROBLEMS REQUIRING EMERGENCY RESPONSE.
- SILT FENCE SHALL BE INSTALLED IN ACCORDANCE WITH THE DETAILS PROVIDED AND IN ACCORDANCE WITH TIMINGS SPECIFIED ON THE PLANS. ALL SILT FENCE IS TO BE INSTALLED WITH THE LOWER 6 INCHES BURIED AND BACKFILLED WITH COMPACTED SOIL MATERIAL. ALL HAY BALES ARE TO BE DOUBLE STAKED AND INSTALLED WITH THE LOWER 4 INCHES BURIED AND BACKFILLED WITH COMPACTED SOIL MATERIAL IF USED IN COMBINATION, A SUFFICIENT AMOUNT OF THE SILT FENCE SHALL BE PLACED IN THE TRENCH SO THAT THE HAY BALE STAKES ARE DRIVEN THROUGH THE FABRIC.
- ALL MATERIALS STOCKPILES TO REMAIN IDLE FOR MORE THAN 20 CONSECUTIVE DAYS ARE TO BE RINGED WITHIN EITHER TRENCHED AND STAKED SILT FENCE OR STAKED HAY BALES.
- ALL DISTURBED SOILS NOT DESIGNATED FOR OTHER SURFACE TREATMENT ARE TO BE LOADED AND SEEDED IMMEDIATELY FOLLOWING FINAL GRADING. PLANTABLE LOAM SHALL BE APPLIED AT A DEPTH OF SIX INCHES.
- ALL EROSION AND SEDIMENTATION CONTROLS MUST BE PROPERLY MAINTAINED, AND THE STRICTEST PRECAUTION MUST BE TAKEN TO AVOID AND MINIMIZE THE TRANSPORT OF SEDIMENTS TO WETLAND RESOURCE AREAS AND CLOSED DRAINAGE SYSTEMS THROUGHOUT ALL PHASES OF CONSTRUCTION. CONTROLS ARE TO BE INSPECTED WEEKLY AND IMMEDIATELY FOLLOWING PRECIPITATION EVENTS RESULTING IN RAINFALLS OF >0.1"
- EROSION AND SEDIMENTATION CONTROLS ARE TO REMAIN IN PLACE UNTIL ALL SOILS HAVE STABILIZED AND SHALL BE REMOVED ONLY UPON AUTHORIZATION FROM THE ENGINEER/BIOLOGIST AND/OR THE CONSERVATION AGENT.

**WETLAND FILL AND REPLICATION SEQUENCE & NOTES:**

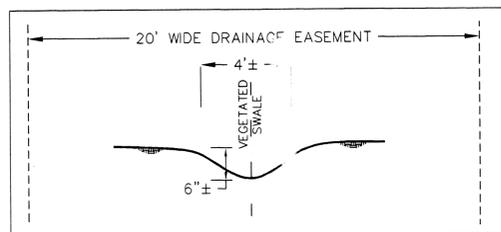
- A QUALIFIED ENGINEER SHALL BE RETAINED TO MONITOR ROADWAY WIDENING AND REPLICATION ACTIVITIES.
- THE CONSERVATION AGENT AND BIOLOGIST SHALL BE NOTIFIED NOT LESS THAN TWO WEEKS IN ADVANCE OF ANTICIPATED WETLAND FILLING AND CREATION OF THE REPLACEMENT WETLANDS.
- THE CONTRACTOR IS TO REVIEW FILL METHODOLOGY WITH ENGINEER AND/OR BIOLOGIST PRIOR TO COMMENCEMENT AND IS TO SUBMIT SPECIFICATIONS FOR TURBIDITY CURTAIN TO ENGINEER FOR APPROVAL PRIOR TO PURCHASE.
- MATERIAL EXCAVATED AS PART OF DRIVEWAY WIDENING AND WETLAND REPLICATION IS TO BE HAULED OFF SITE TO A LEGAL, NON-WETLAND DISPOSAL SITE OR RESPONSIBLY REUSED ON SITE ONLY AS PART OF THE ACTIVITIES PROPOSED UNDER THIS APPLICATION.
- FOLLOWING INSTALLATION OF PERIMETER CONTROLS, VEGETATION SHALL BE CLEARED WITHIN THE LIMITS OF THE SUBJECT AREAS. REUSABLE TOPSOIL SHALL BE STRIPPED AND STOCKPILED IN AN UPLAND AREA FOR RE-USE ON FINAL REPLICATION SIDE SLOPES.
- THE PROPOSED WETLAND FLOORS SHALL BE OVER-EXCAVATED TO ACCOMMODATE 6 INCHES OF EVENLY-SPREAD ORGANIC-MIX SOIL. EXCAVATED WETLAND FLOORS SHALL BE GRADED TO BLEND WITH ADJACENT UNDISTURBED WETLAND FLOORS.
- ORGANIC-MIX SOIL SHALL COMPRISE LOAM BLENDED WITH PEAT MOSS AND/OR HUMUS AT A RATIO OF THREE PARTS MINERAL SOIL TO ONE PART PEAT/HUMUS. SIX INCHES OF LOAM SHALL BE SPREAD ON THE ROADWAY FILL EMBANKMENT AND REPLICATION SIDE SLOPES FOLLOWING FINAL SHAPING.
- TREES AND SHRUBS SHALL BE PLANTED IN THE LOCATIONS SHOWN ON THE PLAN UNDER THE GUIDANCE OF THE BIOLOGIST.
- THE FLOORS AND LOWEST ONE FOOT OF SIDE SLOPED OF THE REPLACEMENT WETLAND SHALL BE SEEDED WITH A HYDRIC GRASS/HERB SEED MIX.
- UPON COMPLETION OF ALL ITEMS LISTED ABOVE, HAY MULCH SHALL BE LOOSELY SPREAD ON THE ROADWAY FILL EMBANKMENT, REPLACEMENT WETLAND FLOORS, AND REPLACEMENT WETLAND SIDE SLOPES.
- SEED AND SHRUBS SHALL BE WATERED AS NECESSARY TO ENSURE GERMINATION AND SURVIVAL. THE CONTRACTOR/OWNER IS RESPONSIBLE FOR ENSURING SURVIVAL OF ALL PLANTINGS FOR A MINIMUM TWO-YEAR PERIOD.
- UPON COMPLETION OF THE REPLICATION AREAS, THE BIOLOGIST SHALL FILE A REPORT TO THE CONSERVATION COMMISSION INDICATING THAT REPLICATION HAS BEEN COMPLETED, NOTING THE STATUS OF THE AREAS AND ANY DISCREPANCIES THAT MAY HAVE BEEN ENCOUNTERED. HENCEFORTH, THE REPLICATION AREA SHALL BE MONITORED FOR A TWO-YEAR PERIOD, AND THE BIOLOGIST SHALL FILE TWO STATUS REPORT ANNUALLY (FOUR TOTAL) CONVEYING FINDINGS OF SITE VISITS CONDUCTED PREFERABLY IN MAY OR JUNE IN SEPTEMBER OR OCTOBER.
- AS-BUILT PLANS OF THE FILL EMBANKMENT AND REPLICATED WETLAND SHALL BE FILLED AS PART OF THE CERTIFICATE OF COMPLIANCE (COC) REQUEST.

**REPLICATION PLANTING SCHEDULE**

SYMBOL	QUANTITY	COMMON NAME	SCIENTIFIC NAME	SIZE
⊗ AR	6	RED MAPLE	ACER RUBRUM	8' MIN.
⊕ AC	12	SHADBUSH	AMELANCHIER CANADENSIS	5'-7'
⊕ HV	9	WITCH-HAZEL	HAMAMELIS VIRGINIANA	5' MIN.
⊕ IVF	32	WINTERBERRY (FEMALE)	ILEX VERTICILLATA	4' MIN.
⊕ IVM	6	WINTERBERRY (MALE)	ILEX VERTICILLATA	4' MIN.
▽ VC	30	HIGHBUSH BLUEBERRY	VACCINIUM CORYMBOSUM	3' MIN.

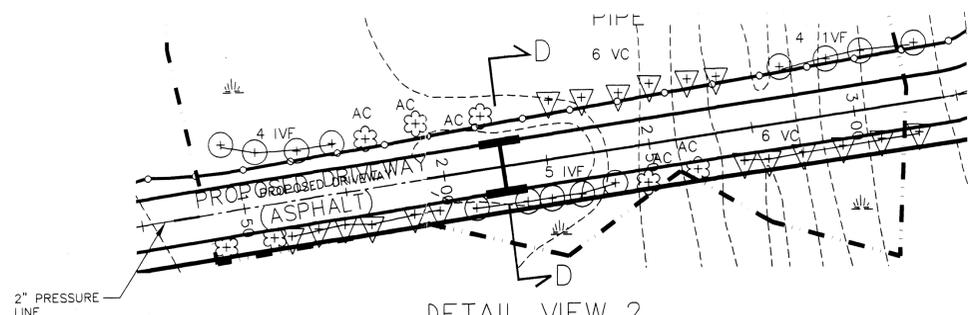


**DETAIL VIEW 1**  
 SCALE: 1"=20'



**SECTION A-A**  
 SCALE: NTS

- LEGEND:**
- P — PROPERTY LINE
  - - - 100' - EXISTING CONTOUR
  - - - x es5 - EDGE OF BORDERING VEGETATIVE WETLAND
  - - - 100' - 100' WETLAND BUFFER
  - - - - - VEGETATED SWALE
  - - - - - SPLIT RAIL FENCE
  - ⊕ - FIRE HYDRANT
  - - EXISTING CATCH BASIN



**DETAIL VIEW 2**  
 SCALE: 1"=20'