



- PLANTING NOTES:**
- DO NOT SCALE FROM DRAWINGS
  - CONTRACTOR SHALL REPORT ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE FIELD CONDITIONS TO THE LANDSCAPE ARCHITECT PRIOR TO PLANTING. QUANTITIES REPRESENTED ON THE DRAWING PLANT LABELS SHALL SUPERSEDE THOSE ON THE PLANT LIST.
  - NO SUBSTITUTIONS WILL BE ALLOWED.
  - ALL PLANTS SHALL BE BALLED AND BURLAPED OR CONTAINER GROWN UNLESS OTHERWISE NOTED ON THE PLANT LIST.
  - ALL PLANTS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT AND/OR OWNER PRIOR TO INSTALLATION.
  - THE CONTRACTOR SHALL VERIFY THE LOCATION OF EXISTING UTILITIES BOTH ABOVE AND BELOW GRADE AND PROTECT DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY DIG SAFE, AND ANY OTHER UTILITY SERVICES PRIOR TO COMMENCING WORK.
  - UTILITIES DAMAGED DURING WORK SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
  - THE CONTRACTOR SHALL POSITION PLANTS IN LOCATIONS SHOWN ON PLAN FOR REVIEW BY THE LANDSCAPE ARCHITECT AND/OR OWNER PRIOR TO PLANTING. CONTRACTOR SHALL ADJUST PLANTS AS NEEDED TO ACCOMMODATE LEDGE AND CONTACT LANDSCAPE ARCHITECT IF LEDGE IS FOUND TO BE IN THE WAY OF THE PLANTING.
  - THE USE OF PESTICIDES, HERBICIDE, AND FERTILIZER SHALL BE PROHIBITED ON THIS PROPERTY BECAUSE OF ITS PROXIMITY TO HINGHAM BAY, WHICH IS A STATE LISTED 303(D), IMPAIRED WATERWAY, AND THE IMPORTANCE OF THE SURROUNDING RESOURCE AREAS TO WATER QUALITY AND SENSITIVE COASTAL MARINE HABITATS. THIS CONDITION SHALL APPLY IN PERPETUITY AND SHALL NOT EXPIRE WITH THE ISSUANCE OF A CERTIFICATE OF COMPLIANCE.
  - THE CONTRACTOR SHALL REVIEW ADDITIONAL SITE DRAINAGE REQUIREMENTS WITH THE OWNER AND/OR LANDSCAPE ARCHITECT AND COORDINATE POTENTIAL IMPROVEMENTS IN ORDER TO ATTAIN POSITIVE DRAINAGE.
  - CONTRACTOR SHALL PROVIDE DARK BROWN SHREDDED PINE BARK MULCH THAT IS FREE OF ANY DEBRIS OR LARGE PIECES OF WOOD MULCH CONTAINING DYE WILL NOT BE ACCEPTED. EXISTING TREES TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION. THERE SHALL BE NO PARKING OF VEHICLES OR STORING OF MATERIALS WITHIN THE DRIP LINE OF SUCH TREES.
  - THE CONTRACTOR SHALL MAINTAIN ALL PLANT MATERIAL UNTIL THE PROJECT IS ACCEPTED BY THE LANDSCAPE ARCHITECT AND/OR OWNER. PLANTS SHALL BE GUARANTEED TO BE ALIVE AND IN VIGOROUS GROWING CONDITION FOR (1) FULL YEAR FROM THE TIME OF ACCEPTANCE. ANY PLANTS DEEMED UNACCEPTABLE PRIOR TO THE END OF THE GUARANTEE PERIOD SHALL BE PROMPTLY REPLACED AT THE CONTRACTOR'S EXPENSE.
  - NATIVE PLANTING PREPARATION  
PART 1 - GENERAL  
1.1 SUMMARY  
A. THIS SECTION INCLUDES REQUIREMENTS FOR THE PREPARATION OF THE SITE FOR THE INSTALLATION OF NATIVE PLANT COMMUNITIES, INCLUDING CLEARING, SAPLING REMOVAL, INVASIVE SPECIES CONTROL, AND SOIL PREPARATION.  
1.2 SUBMITTALS  
A. SUBMIT PLAN INDICATING LIMITS OF CLEARING, LOCATION OF TREES OR SHRUBS TO BE PRESERVED, AND PROPOSED EQUIPMENT ACCESS PATHS.  
1.3 PROJECT CONDITIONS  
A. AVOID WORK DURING SATURATED SOIL CONDITIONS TO PREVENT COMPACTION.  
B. DO NOT CONDUCT CLEARING DURING THE NESTING SEASON (APRIL 1-AUGUST 15) UNLESS APPROVED BY OWNER'S REPRESENTATIVE.
  - EXECUTION  
3.1 SITE PREPARATION  
A. LOCATE AND MARK UTILITIES PRIOR TO START OF WORK.  
3.2 REMOVAL OF SAPLINGS AND SHRUBS  
A. REMOVE ALL UNDESIRABLE SAPLINGS UNDER 6 INCHES DBH AS IDENTIFIED IN THE DRAWINGS OR DIRECTED BY THE LANDSCAPE ARCHITECT.  
B. CUT ALL WOODY STEMS FLUSH TO GRADE USING HAND TOOLS OR MECHANICAL SAWS.  
3.3 MECHANICAL CLEARING AND GRUBBING  
A. REMOVE SURFACE-ROOTED INVASIVE SHRUBS AND GROUND COVERS USING BRUSH GRUBBER OR MINI-EXCAVATOR.  
B. MULCH WOODY DEBRIS ON-SITE UNLESS OTHERWISE NOTED.  
C. AVOID DEEP TILLING; REMOVE ROOTS WITHOUT EXCESSIVE SOIL INVERSION.  
3.4 EQUIPMENT  
B. CLEAN ALL EQUIPMENT PRIOR TO SITE ENTRY TO PREVENT SPREAD OF INVASIVE SEEDS OR SOIL PATHOGENS.  
3.5 SOIL PREPARATION  
A. LOOSEN COMPACTED SOILS TO A MINIMUM DEPTH OF 6 INCHES USING BROADFOK, SUBSOILER, OR EQUIVALENT.  
B. AVOID TILLING UNLESS SPECIFIED FOR SOIL AMENDMENT INCORPORATION.  
C. DO NOT APPLY SYNTHETIC FERTILIZERS.  
3.7 CLEARING  
A. REMOVE AND LEGALLY DISPOSE OF DEBRIS, INVASIVE PLANT MATERIAL, AND NON-COMPOSTABLE WASTE.  
B. LEAVE SITE IN A CONDITION READY FOR PLANTING OPERATIONS.
  - MITIGATION PLANTING - TARGETED MULCHING & SEEDING INSTRUCTIONS FOR CONSERVATION COMMISSION  
1. PURPOSE  
THIS APPROACH SUPPORTS NATIVE PLANT ESTABLISHMENT WHILE PROMOTING NATURAL REGENERATION. MULCHING IS LIMITED TO THE IMMEDIATE BASE OF INSTALLED PLANTS TO RETAIN MOISTURE AND SUPPRESS WEEDS, WHILE THE SURROUNDING AREA IS STABILIZED AND VEGETATED THROUGH NATIVE SEED APPLICATION.  
2. MULCH PLACEMENT (SPOT MULCHING)  
LOCATION: APPLY MULCH ONLY AT THE BASE OF EACH INSTALLED TREE, SHRUB, OR HERBACEOUS PLUG.  
MULCH RING SIZE:  
TREES: 24-30" DIAMETER MULCH RING  
SHRUBS: 18-24" DIAMETER MULCH RING  
PERENNIALS/PLUGS: 6-12" DIAMETER MULCH RING  
DEPTH: 2-3 INCHES THICK, TAPERING TO 1 INCH NEAR THE PLANT CROWN.  
MULCH-FREE ZONE: MAINTAIN A 2-3" CLEAR SPACE AROUND WOODY STEMS AND 1" AROUND HERBACEOUS CROWNS.  
3. MULCH MATERIALS  
SHREDDED LEAF MULCH (PREFERRED), AGED NATURAL HARDWOOD BARK MULCH, NO DYED MULCH OR SYNTHETIC MATERIALS.  
4. SEEDING OF REMAINING AREA  
SEED MIX: NEW ENGLAND CONSERVATION/WILDLIFE GRASS MIX. NO SUBSTITUTIONS UNLESS AUTHORIZED BY CONSERVATION COMMISSION.  
LIGHTLY SCARIFY OR RAKE SOIL TO ENSURE SEED-SOIL CONTACT. REMOVE INVASIVE SPECIES BEFORE SEEDING. SEEDING RATE: FOLLOW SUPPLIER RECOMMENDATIONS (E.G., 35-50 LBS/ACRE FOR CONSERVATION MIXES).  
COVERING SEED:  
LIGHT STRAW MULCH (WEED-FREE), APPLIED LOOSELY TO ~0.5 INCH DEPTH TO STABILIZE SOIL WITHOUT SMOTHERING SEEDLINGS.  
EROSION CONTROL: NATURAL MATERIAL NETTING OR BIODEGRADABLE MATTING MAY BE USED ON SLOPES >0.1. NETTING OR MATTING MUST BE COFFIRMED BY HINGHAM CON COMM BEFORE INSTALLATION 781-741-1445.  
5. INSTALLATION TIMING  
PLANT, MULCH BASES, AND SEED THE AREA IN SPRING (APRIL-JUNE) OR FALL (SEPTEMBER-NOVEMBER).  
6. MAINTENANCE & MONITORING  
MONITOR FOR INVASIVE SPECIES QUARTERLY.  
OVERSEED BARE AREAS AS NEEDED DURING MAINTENANCE PERIOD.  
MAINTAIN MULCH RINGS AT EACH PLANT FOR THE FIRST TWO GROWING SEASONS.
  - PRIOR TO THE ISSUANCE OF A CERTIFICATE OF COMPLIANCE, THE MITIGATION AREA PLANTING SHALL SURVIVE AT LEAST TWO FULL GROWING SEASONS WITH A MINIMUM OF 75% SURVIVAL RATE.
  - UPON INSTALLATION, PHOTOS AND NOTIFICATION OF THE INSTALLATION DATE SHALL BE PROVIDED TO THE CONSERVATION OFFICE.
  - PER THE COMMISSION'S BUFFER ZONE MITIGATION POLICY, MITIGATION AREAS ARE INTENDED TO VEGETATE WITH NATIVE SPECIES FOLLOWING PLANTING AND REMAIN AS A NATURALLY VEGETATED BUFFER IN PERPETUITY, AND SHALL NOT BE DISTURBED, MOVED, OR MAINTAINED AS A LANDSCAPED AREA, UNLESS OTHERWISE PERMITTED BY THE COMMISSION.

**SEED MIX:**

**NEW ENGLAND WETLAND PLANTS, INC.**  
34 Pearl Lane South Hadley, MA 01075  
PHONE: 413-548-8000 FAX 413-549-4000  
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM

**New England Conservation/Wildlife Mix**

Botanical Name	Common Name	Indicator
<i>Elymus virginicus</i>	Virginia Wild Rye	FACW
<i>Schizachyrium scoparium</i>	Little Bluestem	FACU
<i>Audouinia pennsylvanica</i>	Big Bluestem	FAC
<i>Festuca rubra</i>	Red Fescue	FACU
<i>Sorghastrum nutans</i>	Indian Grass	UPL
<i>Panicum virginicum</i>	Switch Grass	FAC
<i>Chamaecrista fasciculata</i>	Partridge Pea	FACU
<i>Desmodium canadense</i>	Showy Tick Trefoil	FAC
<i>Asclepias tuberosa</i>	Butterfly Milkweed	RI
<i>Rudbeckia frundosa</i>	Begonia Ticks	FACW
<i>Eupatorium purpureum (Eupatorium maculatum)</i>	Purple Joe Pye Weed	FAC
<i>Rhaphis hirta</i>	Black-eyed Susan	FACU
<i>Aster pilosus (Symphoricarpos pilosus)</i>	Heath (or Hairy) Aster	UPL
<i>Solidago juncea</i>	Early Goldenrod	

APPLY: 25 LBS/ACRE (1750 sq ft/lb)

The New England Conservation/Wildlife Mix provides a permanent cover of grasses, wildflowers, and legumes for both good erosion control and wildlife habitat value. The mix is designed to be a no-maintenance seeding, and is appropriate for cut and fill slopes, detention basin side slopes, and disturbed areas adjacent to commercial and residential projects. New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the mix will remain unchanged. Price is 50lb bags, FOB warehouse, Plus 5% and applicable taxes.

**PLANT LIST:**

COMMON NAME	BOTANICAL NAME	QUANTITY	SIZE
<b>REPLACEMENT TREES</b>			
Red Maple	<i>Acer rubra</i>	6	3-4"
Red Oak	<i>Quercus rubra</i>	7	3-4"
<b>SHRUBS</b>			
Arrow wood Viburnum	<i>Viburnum Dentatum</i>	10	3 gal
Winterberry Holly	<i>Ilex verticillata</i>	10	3 gal
Highbush Blueberry	<i>Vaccinium corymbosum</i>	11	3 gal
Rosebay Rhododendron	<i>Rhododendron maximum</i>	5	3 gal
Winterberry Holly	<i>Ilex verticillata (male pollinator)</i>	1	1 gal
<b>SEED MIX</b>			
New England Conservation/Wildlife Seed Mix. Install per manufacturer's instructions.			

