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AQUATIC BENCH PLUG PLANTING DETAIL
SCALE: NOT TO SCALE

AQUATIC BENCH PLANT SCHEDULE

ZONE	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
INLET	SCIRPUS CYPERINUS	WOOL GRASS	2" PLUG	12" O.C.
1A	SPARGANUM AMERICANUM	BURREED	2" PLUG	18" O.C.
1B	PELTANDRA VIRGINICA	ARROW ARUM	2" PLUG	18" O.C.
2A	CAREX COMOSA	BEARDED SEDGE	2" PLUG	18" O.C.
2B	PONTEDERIA CORDATA	PICKERELWEED	2" PLUG	18" O.C.
3A	SCHOENOPLECTUS ACUTUS	HARDSTEM BULRUSH	2" PLUG	18" O.C.
3B	PELTANDRA VIRGINICA	ARROW ARUM	2" PLUG	18" O.C.
4A	JUNCUS EFFUSUS	SOFT RUSH	2" PLUG	18" O.C.
4B	ACORUS AMERICANUS	SWEET FLAG	2" PLUG	18" O.C.
5A	CAREX ORNATA	FRINGED SEDGE	2" PLUG	18" O.C.
5B	PONTEDERIA CORDATA	PICKERELWEED	2" PLUG	18" O.C.
6A	SCHOENOPLECTUS ACUTUS	HARDSTEM BULRUSH	2" PLUG	18" O.C.
6B	PELTANDRA VIRGINICA	ARROW ARUM	2" PLUG	18" O.C.

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S19B
**TYPICAL STORMWATER MANAGEMENT BASIN
AQUATIC BENCH PLUG PLANTING DETAIL**
SCALE: NOT TO SCALE

STORMWATER MANAGEMENT BASIN PLANTING NOTES:

- QUALITY ASSURANCE
 - NOMENCLATURE: PLANT NAMES SHALL CONFORM TO THE LATEST EDITION OF "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE.
 - SIZE AND GRADING: PLANT SIZES AND GRADING SHALL CONFORM TO THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK" AS SPONSORED BY THE AMERICAN ASSOCIATION OF NURSEYMEN, INC. (AAN), UNLESS OTHERWISE SPECIFIED.
 - NURSERY SOURCE: OBTAIN FRESHLY DUG, HEALTHY, VIGOROUS, PLANTS NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. PLANTS SHALL HAVE BEEN LINED OUT IN ROWS, ANNUALLY CULTIVATED, SPRAYED, PRUNED, AND FERTILIZED IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES. HEEDLED IN PLANTS AND PLANTS FROM COLD STORAGE ARE NOT ACCEPTABLE.
 - SUBSTITUTIONS: DO NOT MAKE SUBSTITUTIONS OF PLANT MATERIALS, IF REQUIRED LANDSCAPE MATERIAL IS NOT OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY AND PROPOSAL FOR USE OF EQUIVALENT MATERIAL. WHEN AUTHORIZED, ADJUSTMENTS OF CONTRACT AMOUNT (IF ANY) WILL BE MADE BY CHANGE ORDER.
 - SEEDING & PLANTING SEASONS AND TIMING CONDITIONS:
 - UNLESS OTHERWISE DIRECTED IN WRITING, SEED STORMWATER MANAGEMENT BASIN AREA FROM APRIL 15 TO JUNE 15, AND FROM AUGUST 15 TO OCTOBER 15.
 - UNLESS OTHERWISE DIRECTED IN WRITING THE PLANTING OF PLUGS SHALL BE FROM APRIL 15 TO OCTOBER 30.
 - AREAS UNDERGOING CLEARING OR GRADING AND ANY AREAS DISTURBED BY CONSTRUCTION ACTIVITIES WHERE LAWNS OR PLANTINGS ARE TO BE ESTABLISHED AND WORK IS COMPLETE, SHALL BE RESTORED WITH PERMANENT VEGETATIVE COVER AS SOON AS SITE AREAS ARE AVAILABLE AND WITHIN 14 DAYS AFTER WORK IS COMPLETE. WORK SHALL BE WITHIN THE SEASONAL LIMITATIONS FOR EACH AND LANDSCAPE WORK REQUIRED. PROVIDE STABILIZATION WITH TEMPORARY VEGETATIVE COVER (TOPSOIL AND TEMPORARY COVER SEED MIX) WITHIN 14 DAYS AFTER WORK IS COMPLETE. FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS.
 - TEMPORARY ANNUAL RYEGRASS COVER FOR SEEDING OUTSIDE PERMITTED SEEDING PERIODS. SEED AT THE RATE OF 3 TO 4 LBS PER 1,000 SF.
 - PRODUCTS:
 - IMPORTED TOPSOIL: PROVIDE TOPSOIL CONFORMING TO THE FOLLOWING:
 - ORIGINAL LOAM TOPSOIL, WELL DRAINED HOMOGENOUS TEXTURE AND OF UNIFORM GRADE, WITHOUT THE ADJUNCTURE OF SUBSOIL MATERIAL AND FREE OF INVASIVE WETLAND SPECIES SEEDS OR ROOTS, DENSE MATERIAL, HARDPAN, CLAY, STONES, SOD OR OTHER OBJECTIONABLE FOREIGN MATERIAL.
 - CONTAINING NOT LESS THAN 5% NOR MORE THAN 20% ORGANIC MATTER IN THAT PORTION OF A SAMPLE PASSING A 1/4" SIEVE WHEN DETERMINED BY THE WET COMBUSTION METHOD ON A SAMPLE DRIED AT 105° C.
 - CONTAINING A PH VALUE WITHIN THE RANGE OF 6.5 TO 7.5 ON THAT PORTION OF THE SAMPLE WHICH PASSES A 1/4" SIEVE.
 - CONTAINING THE FOLLOWING WASHED GRADATIONS:

SEIVE DESIGNATION	% PASSING
1/4"	100
NO. 200	97 - 100
	20 - 60
 - SEED: PROVIDE FRESH, CLEAN, NEW-CROP SEED MIXED IN THE PROPORTIONS SPECIFIED FOR SPECIES AND VARIETY, AND CONFORMING TO FEDERAL AND STATE STANDARDS. PROVIDE THE FOLLOWING MIXTURES:
 - WITHIN STORMWATER BASIN: NEW ENGLAND EROSION CONTROL/RESTORATION MIX AS SUPPLIED BY NEW ENGLAND WETLAND PLANTS, INC. 820 WEST ST., AMHERST, MA 01002, OR APPROVED EQUIVALENT. APPLY AT A RATE OF 1 LBS./245 S.F.
 - OUTSIDE STORMWATER BASIN: USE LAWN SEED AT THE RATE OF 5 TO 6 LBS PER 1,000 SF.

AMOUNT BY WEIGHT	SPECIES OR VARIETY	PURITY	% GERMINATION
40%	KENTUCKY BLUE GRASS	95%	60%
35%	PERENNIAL RYE	98%	90%
25%	RED FESCUE	97%	85%
100%			
- FERTILIZER (TO BE USED ON SEEDED LAWN AREAS OUTSIDE THE BASIN ONLY):
 - FOR STARTER FERTILIZING: COMMERCIAL STARTER FERTILIZER, GRANULAR, NONBURNING PRODUCT CONTAINING 5% NITROGEN, 10% AVAILABLE PHOSPHOROUS, AND 5% WATER SOLUBLE POTASH (5-10-5).
 - FOR FINAL FERTILIZING: IF APPLIED IN SPRING SEASON, SHALL BE A SLOW RELEASE COMMERCIAL FERTILIZER, GRANULAR WITH 3-1-2 NPK. IF APPLIED IN FALL SEASON, SHALL BE AS SPECIFIED IN (3.C.1) ABOVE.
- MULCH
 - LAWN AREAS OUTSIDE STORMWATER BASIN: HYDROSEED OR USE OAT OR WHEAT STRAW FREE OF WEEDS
 - EROSION CONTROL/RESTORATION MIX AREA WITHIN BASIN: HYDROSEED ONLY. DO NOT USE OTHER MULCH WITHIN THE BASIN.
- EXECUTION
 - PLANTING WORK SHALL BE UNDERTAKEN AS SOON AS SITE AREAS ARE AVAILABLE.
 - THE BASIN MUST BE DRAINED AND FINE GRADED TO FINISHED ELEVATION PRIOR TO PLANTING. PLANTING AREAS SHALL BE GRADED TO A SMOOTH EVEN SURFACE, FREE OF DEPRESSIONS OR RIDGES WITH A UNIFORM LOOSE, FINE TEXTURE.
 - CONTRACTOR SHALL EMPLOY APPROPRIATE SEDIMENT CONTROL MEASURES TO ASSURE WATER DRAINED FROM THE BASIN SHALL BE FREE FROM SEDIMENT PRIOR TO DISCHARGE TO RECEIVING CONVEYANCE SYSTEMS.
 - TOPSOIL SHALL BE SPREAD NO LESS THAN 4" THICK EXCEPT 6" THICK OVER THE AQUATIC BENCH.
 - THE TOPSOIL SHALL BE TESTED FOR PH AND LIME ADDED AS NECESSARY. ALL AMENDMENTS SHALL BE CHECKED AND APPROVED BY LANDSCAPE ARCHITECT BEFORE AMENDMENTS ARE MADE.
 - APPLY FERTILIZER AT RATE OF 4 LBS/1000 SF FOR LAWN AREAS.
 - ALL NEWLY SEEDED AREAS SHALL BE KEPT MOIST BY WATERING UNTIL VEGETATIVE COVERS ARE WELL ESTABLISHED. CONTRACTOR SHALL KEEP PLUG ROOTS MOIST UNTIL SUCH TIME THAT THE PERMANENT WATER SURFACE IS REACHED WITHIN THE BASIN.
 - THE WATER IN THE BASIN SHALL BE ALLOWED TO RISE TO ITS PERMANENT POOL LEVEL WHEN THE AQUATIC BENCH HAS BEEN PLANTED AND ONLY AT A RATE THAT WILL NOT DISTURB THE NEWLY PLANTED PLUGS.
 - VEGETATIVE AREAS ARE TO BE WARRANTED UNTIL THEY HAVE BECOME ESTABLISHED, AND NOT LESS THAN 60 DAYS AFTER COMPLETION OF ALL WORK AND FINAL ACCEPTANCE.

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REV.	DATE	DESCRIPTION
1	02/26/08	GENERAL REVISIONS PER TOWN AND ACOE COMMENTS
2	02/26/08	REVISD PER TOWN COMMENTS

ELM AVENUE EAST RESIDENTIAL DEVELOPMENT STORM WATER MANAGEMENT BASIN PLANTING DETAILS & SCHEDULE

TOWN OF BETTLEHEM, ALBANY COUNTY, NEW YORK

drawn CJB checked JML
date 12/19/03 scale AS NOTED
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