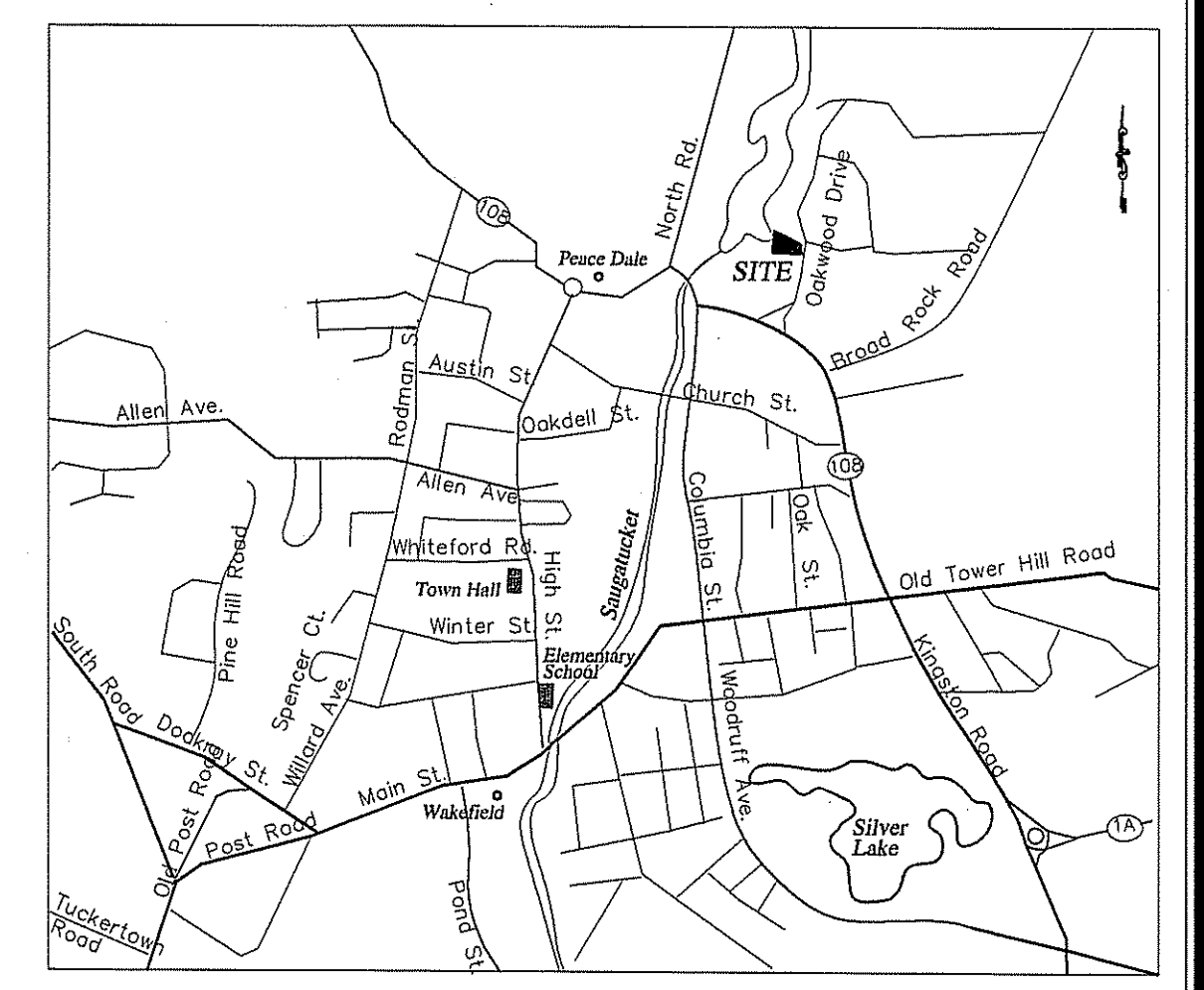


ZONING DISTRICT DIMENSIONAL REGULATIONS
ZONING DISTRICT USE: R-20

	MIN.	SITE
MINIMUM LOT AREA (SF.)	20,000 S.F.	49,666 S.F.
MINIMUM LOT FRONTAGE:	100 FT.	117 FT.
MINIMUM LOT WIDTH:	100 FT.	117 FT.
MINIMUM YARD SETBACKS:		
DWELLING:		
FRONT:	35 FT.	71 FT.
SIDE:	15 FT.	33/39 FT.
REAR:	35 FT.	211 FT.
ACCESSORY:		
REAR:	10 FT.	--
SIDE:	10 FT.	--
MAXIMUM BUILDING COVERAGE:	25 %	3.8 %
	(5,000 sf)	(1,800 sf)

- NOTES TO CONTRACTOR:**
- ALL WORK PERFORMED IN THE TOWN R.O.W. OF SHALL CONFORM TO THE MOST RECENT REVISION OF THE TOWN OF SOUTH KINGSTOWN CODE OF ORDINANCES CHAPTER 18: "STREETS & SIDEWALKS" & CHAPTER 19 "UTILITIES".
 - CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY LOCAL AND STATE PERMITS PRIOR TO BEGINNING CONSTRUCTION.
 - CONTRACTOR SHALL NOTIFY THIS ENGINEER FIVE DAYS PRIOR TO CONSTRUCTION AND ARRANGE FOR ANY INSPECTIONS REQUIRED HEREIN OR BY THE TOWN.
 - IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO DOCUMENT EXISTING CONDITIONS OF SURROUNDING PROPERTIES AND TO MAINTAIN THE INTEGRITY OF THE SAME. ANY DAMAGES TO ROADS, UTILITIES, OR ADJUTING PROPERTIES SHALL BE BORNE BY THE CONTRACTOR.
 - LOCATIONS AND DEPTHS OF EXISTING UTILITIES ARE APPROXIMATE AND HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS WITH "DIG SAFE" OR OTHER APPROPRIATE MEANS. ANY DAMAGE TO EXISTING UTILITIES SHALL BE THE CONTRACTORS RESPONSIBILITY.



GENERAL NOTES:

- THIS SITE IS NOT LOCATED WITHIN THE SALT POND SPECIAL MANAGEMENT AREA. WETLANDS WITHIN 100' OF THE PARCEL ARE SHOWN.
- THIS SITE WILL BE SERVICED BY PUBLIC WATER, UNITED WATER SUPPLY. PUBLIC SEWERS ARE AVAILABLE.
- TOWN OF SOUTH KINGSTOWN STORMWATER ORDINANCE FOLLOWED FOR STORMWATER CONTROLS; 10 YEAR DESIGN EVENT.
- NO WORK IS PROPOSED WITHIN BIOLOGICAL WETLANDS OR 50' PERIMETER WETLANDS. EROSION CONTROLS TO BE SET OUTSIDE THE 50' WETLAND PERIMETER. THE LIMIT OF DISTURBANCE SHOWN ON THIS PLAN INCLUDES THE AREA OF EROSION CONTROLS AS WORK WILL BE REQUIRED TO INSTALL AND REMOVE SUCH DEVICES. NO WORK IS PROPOSED BETWEEN EROSION CONTROLS AND WETLAND RESOURCES OTHER THAN RESTORATION PLANTING.

EROSION & SEDIMENT CONTROL NOTES:

- EXTREME CARE SHALL BE EXERCISED TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING A WETLAND, STREET, OR NEIGHBORING PROPERTY. THE CONTRACTOR SHALL IMMEDIATELY CLEAN AND RESTORE ANY DISTURBED AREAS.
- ALL EROSION CONTROL METHODS, MATERIALS, AND MAINTENANCE SHALL BE ACCOMPLISHED ACCORDING TO THE RHODE ISLAND SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, PREPARED BY THE UNITED STATES DEPARTMENT OF AGRICULTURE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL TEMPORARY EROSION AND SEDIMENT CONTROLS, AS SHOWN ON THE PLANS AND DIRECTED BY THE ENGINEER. ALL RUNOFF SHALL BE CONTROLLED. IN NO CASE SHALL ANY DIRECT RUNOFF BE ALLOWED TO ENTER ONTO ADJUTING PROPERTIES OR INTO THE WETLAND BUFFERS.
- HAYBALES/SILT FENCING SHALL BE PLACED IMMEDIATELY DOWN SLOPE OF SOIL DISTURBANCE AREAS AS SHOWN ON THE PLANS. HAY HAY EROSION CHECKS SHALL BE PLACED AT ALL DRAINAGE STRUCTURE INLETS, EXISTING AND PROPOSED, DURING CONSTRUCTION. ADDITIONAL HAYBALES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER.
- SPOIL AND STOCKPILE MATERIALS REMAINING EXPOSED FOR LONGER THAN 30 DAYS SHALL BE ENCIRCLED WITH SILT FENCING OR HAYBALES AND COVERED WITH EROSION CONTROL MIX (NOTE 9).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS UNTIL ALL AREAS ARE STABILIZED. CONTROLS SHALL REMAIN IN PLACE UNTIL A GOOD STAND OF VEGETATION IS ESTABLISHED.
- SEEDING - SEED IS TO BE DISTRIBUTED EVENLY OVER THE TOP 1 INCH OF TOPSOIL. SEED SHALL BE URI #2, OR APPROVED EQUAL. APPLY AT A RATE OF 4-5 # / 1,000 S.F. RECOMMENDED SEEDING DATES ARE MARCH 15 - JUNE 15 AND SEPTEMBER 15 - NOVEMBER 15.
- SHOULD THE VEGETATION PLANTING SEASON BE PASSED, WINTER MULCHING OF ALL EXPOSED SURFACES SHALL BE COMPLETED BY DECEMBER 1. WINTER MULCHING SHALL CONSIST OF THE FOLLOWING EROSION CONTROL MIX.
- EROSION CONTROL MATERIALS

EROSION CONTROL MIX: USE EROSION CONTROL MIX AS A LONG-TERM SOIL COVER THAT WILL EVENTUALLY ALLOW THE GROWTH OF VEGETATION IF DESIRED.

- EROSION CONTROL MIX INCLUDES SHREDDED OR COMPOSTED BARK, STUMP GRININGS, OR OTHER COMPOSTED WOOD PRODUCTS, WOOD CHIPS, GROUND CONSTRUCTION DEBRIS, OR PROCESSED WOOD ARE NOT ACCEPTABLE.
- APPLY THE EROSION CONTROL MIX AS A LAYER AT LEAST THREE INCHES THICK. DO NOT COMPACT THE MIX WITH EQUIPMENT.

- HAY MULCH**
- USE HAY MULCH AS A TEMPORARY MEASURE TO PROTECT BARE SOILS OR TO COVER NEWLY SEEDING AREAS.
 - APPLY AT A RATE OF TWO SQUARE BALES (70-90 POUNDS) PER 1000 SQ FT OR 1.5 TO 2 TONS (90-100 BALES) PER ACRE.
 - ANCHOR THE HAY MULCH USING ONE OF THE FOLLOWING METHODS:
 - STAPLE JUTE OR PLASTIC NETTING OVER THE MULCH ACCORDING TO THE NET OR JUTE MANUFACTURER'S RECOMMENDATION.
 - STRETCH TWINE BETWEEN PESS IN A CROSS-CROSS PATTERN OVER THE MULCH (4-8 PESS PER SQ YD).
 - MULCHING SHALL FOLLOW GUIDELINES IN THE RI SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, CHAPTER 4 & CHAPTER 5, A TEMPORARY MULCHING. STRAW / HAY SHALL BE APPLIED AT 90# / 1,000 S.F. FREE FROM WEEDS AND ANCHORED WITH MULCH NETTING.

SWALE CONSTRUCTION NOTES:

- THE SWALE AREA SHALL BE CONSTRUCTED FOLLOWING THE COMPLETION AND STABILIZATION OF OTHER SITE WORK. COMPACTION OF THE VEGETATED SWALE AREA PRIOR TO AND DURING CONSTRUCTION MUST BE AVOIDED. EXCAVATION SHALL BE COMPLETED USING LIGHT EQUIPMENT WITH WIDE TRACKS. IF THE AREA DOES BECOME COMPACTED, SOIL MUST BE TILLED TO A MINIMUM DEPTH OF 12".
- FOLLOW SOIL SPECIFICATIONS TO PROVIDE A PLANTING MEDIA WITH ADEQUATE NUTRIENTS. PLANTING MEDIA SHALL BE PLACED IN 12" LIFTS.

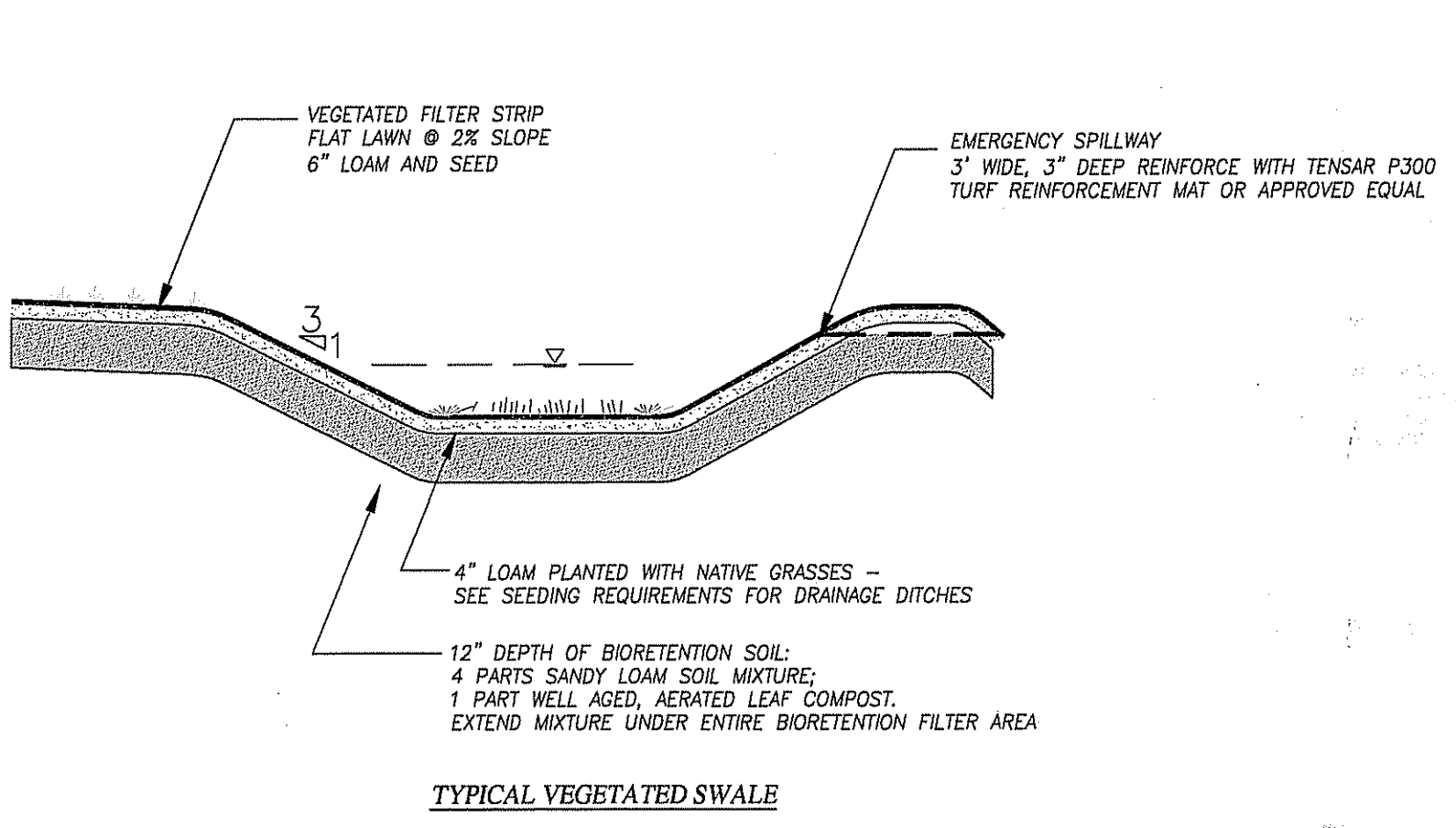
MATERIALS

PLANTING MEDIA - THE MATERIAL TO BE FURNISHED SHALL BE A UNIFORM MIX FREE OF SUBSOIL, REFUSE, STUMPS, ROOTS, ROCKS, BRUSH, WEEDS OR OTHER MATERIAL WHICH WOULD PREVENT THE FORMATION OF A SUITABLE SEED BED. THE MEDIA SHALL CONSIST OF THE 4 PARTS PLANTING SOIL & 1 PART WELL AGED, AERATED, LEAF COMPOST.

PLANTING SOIL:
 SAND: 85-88%
 SOIL FINES: 8-12% (NO MORE THAN 2% CLAY)
 ORGANIC MATTER: 3-5%

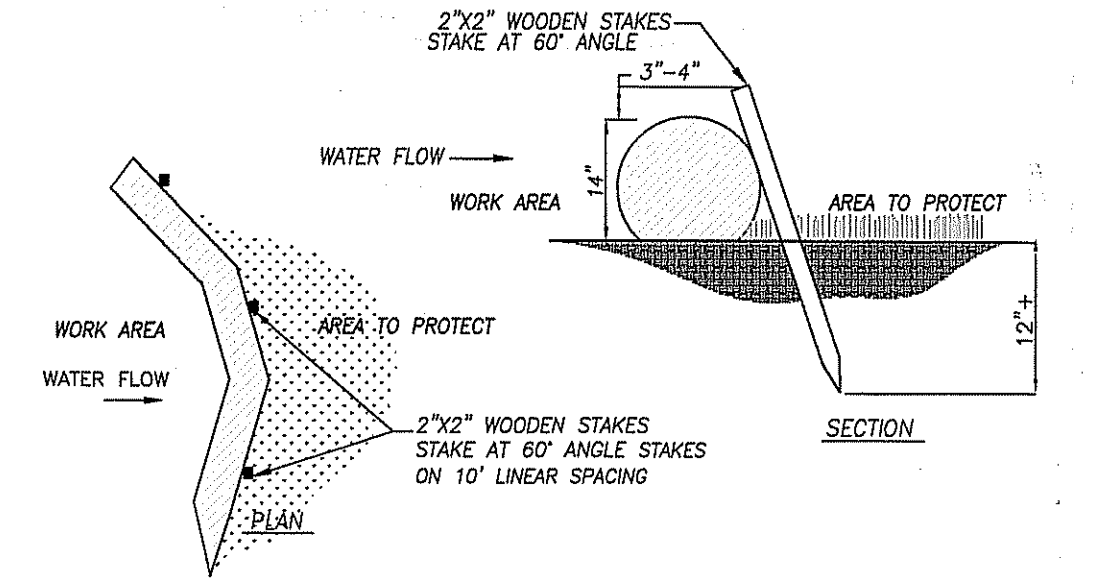
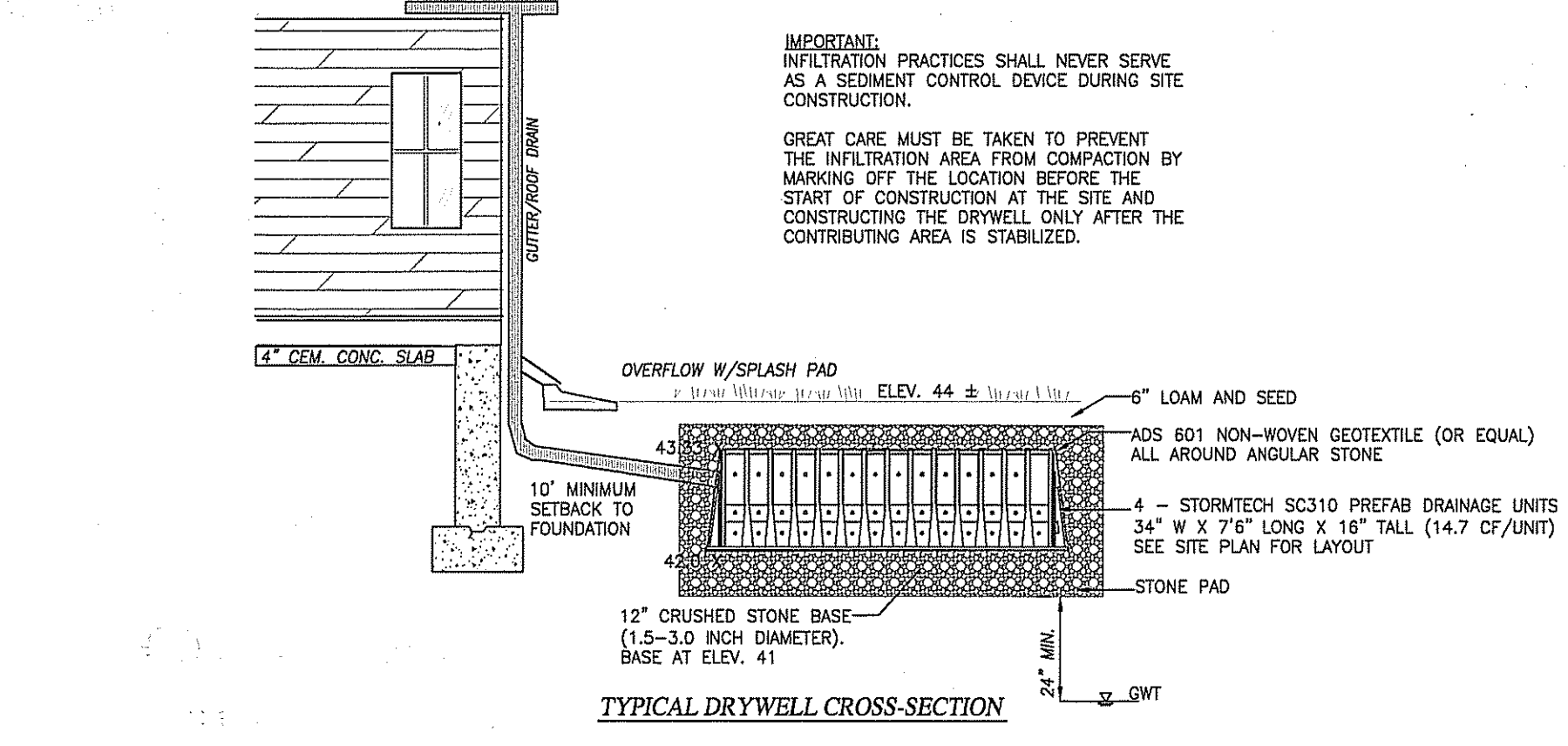
- A TEXTURAL ANALYSIS IS RECOMMENDED TO ENSURE THE BIORETENTION SOIL MEETS THE SPECIFICATION LISTED ABOVE. THE BIORETENTION SOIL SHOULD ALSO BE TESTED FOR THE FOLLOWING CRITERIA:
- PH RANGE: 5.2 - 7.0
 - MAGNESIUM NOT TO EXCEED 32 PPM
 - PHOSPHORUS P205 NOT TO EXCEED 69 PPM
 - POTASSIUM K2O NOT TO EXCEED 78 PPM
 - SOLUBLE SALTS NOT TO EXCEED 500 PPM
- SHOULD THE PH FALL OUT OF THE ACCEPTABLE RANGE, IT MAY BE MODIFIED (HIGHER) WITH LIME OR (LOWER) WITH IRON SULFATE PLUS SULFUR.

- INSTALLATION**
- IT IS VERY IMPORTANT TO MINIMIZE COMPACTION OF BOTH THE BASE OF THE SWALE AREA AND THE REQUIRED BACKFILL. WHEN POSSIBLE, USE EXCAVATION HOES TO REMOVE ORIGINAL SOIL. IF THE TREATMENT AREA IS EXCAVATED USING A LOADER, THE CONTRACTOR SHOULD USE WIDE TRACK OR MARSH TRACK EQUIPMENT, OR LIGHT EQUIPMENT WITH TURF TYPE TIRES. USE OF EQUIPMENT WITH NARROW TRACKS OR NARROW TIRES, RUBBER TIRES WITH LARGE LUGS, OR HIGH PRESSURE TIRES ARE NOT ACCEPTABLE.
 - COMPACTION CAN BE ALLEVATED AT THE BASE OF THE SWALE BY USING A PRIMARY TILLING OPERATION SUCH AS A CHISEL PLOW, RIPPER, OR SUBSOILER. THESE TILLING OPERATIONS ARE PERFORMED THROUGH THE SOIL PROFILE THROUGH THE 12"-18" COMPACTION ZONE. SUBSTITUTE METHODS MUST BE APPROVED BY THE ENGINEER. ROTOTILLERS TYPICALLY DO NOT TILL DEEP ENOUGH TO REDUCE THE EFFECTS OF COMPACTION FROM HEAVY EQUIPMENT.
 - WHEN BACKFILLING THE SWALE PLACE SOIL IN LIFTS 12IN OR GREATER. DO NOT USE HEAVY EQUIPMENT WITHIN THE BIORETENTION BASIN. HEAVY EQUIPMENT CAN BE USED AROUND THE PERIMETER OF THE BASIN TO SUPPLY SOILS AND SAND. GRADE BIORETENTION MATERIALS WITH LIGHT EQUIPMENT SUCH AS A COMPACT LOADER OR A DOZER/LOADER WITH MARSH TRACKS.

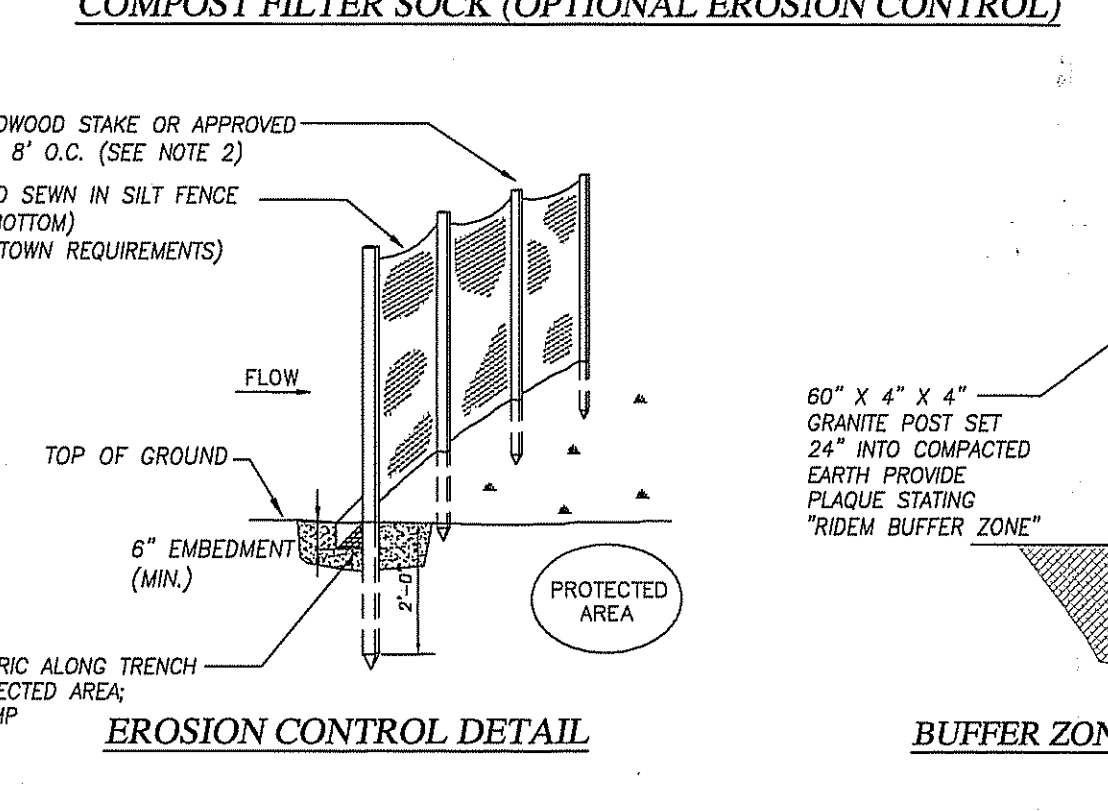


INFILTRATION SYSTEM CONSTRUCTION NOTES

- INFILTRATION TRENCH OR CHAMBER SYSTEMS MAY NOT RECEIVE RUN-OFF UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA TO THE INFILTRATION SYSTEM HAS RECEIVED FINAL STABILIZATION.
- CONSTRUCTION EQUIPMENT AND TRAFFIC SHALL BE RESTRICTED FROM TRAVELING OVER THE INFILTRATION TRENCH OR CHAMBER AREAS TO MINIMIZE COMPACTION OF THE SOIL.
- EXCAVATE THE INFILTRATION CHAMBER TO THE DESIGN DIMENSIONS. EXCAVATED MATERIALS SHALL BE PLACED AWAY FROM THE TRENCH/CHAMBER SIDES TO ENHANCE TRENCH WALL STABILITY. LARGE TREE ROOTS MUST BE TRIMMED FLUSH WITH THE TRENCH SIDES IN ORDER TO PREVENT FABRIC PUNCTURING OR TEARING OF THE FILTER FABRIC DURING SUBSEQUENT INSTALLATION PROCEDURES. THE SIDE WALLS OF THE TRENCH/CHAMBER SHALL BE ROUGHENED WHERE SHEARED AND SEALED BY HEAVY EQUIPMENT.
- INFILTRATION CHAMBERS SHOULD CONSIST OF STORMTECH RC-310 UNITS. ANY SUBSTITUTIONS MUST BE OF EQUAL SIZE (STORAGE CAPACITY & HEIGHT) AND COMPRISED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HDPE).
- ASHTO M288 CLASS 2 NON-WOVEN GEOTEXTILE CLASS "C" GEOTEXTILE OR BETTER SHALL INTERFACE BETWEEN THE TRENCH/CHAMBER SIDE WALLS AND BETWEEN THE STONE RESERVOIR AND GRAVEL FILTER LAYERS. A PARTIAL LIST OF NONWOVEN FILTER FABRICS THAT MEET THE CLASS CRITERIA IS CONTAINED INCLUDES (MIRAF 180-N, AMOCO 4552, WETBEC M70, GEOLON M70, CARTRAGE FAX-805).
- THE WIDTH OF THE GEOTEXTILE MUST INCLUDE SUFFICIENT MATERIAL TO CONFORM TO TRENCH/CHAMBER PERIMETER IRREGULARITIES AND FOR A 6-INCH MINIMUM TOP OVERLAP. THE FILTER FABRIC SHALL BE TUCKED UNDER THE STONE LAYER ON THE BOTTOM OF THE INFILTRATION TRENCH/CHAMBER FOR A DISTANCE OF 6 TO 12 INCHES.
- THE STONE AGGREGATE SHOULD BE PLACED IN 8" LIFTS AND LOOSELY COMPACTED. THE GRAVEL STONE FOR THE INFILTRATION TRENCH/CHAMBER SHALL BE WASHED AND MEET ONE OF THE FOLLOWING ASHTO STD. M-43; SIZE NO. 2 OR NO. 3.
- CARE SHALL BE EXERCISED TO PREVENT NATURAL OR FILL SOILS FROM INTERMIXING WITH THE STONE AGGREGATE. ALL CONTAMINATED STONE AGGREGATE SHALL BE REMOVED AND REPLACED WITH UNCONTAMINATED STONE AGGREGATE.
- VOIDS CAN BE CREATED BETWEEN THE FABRIC AND THE EXCAVATION SIDES AND SHALL BE AVOIDED. REMOVING BOULDERS OR OTHER OBSTACLES FROM THE TRENCH WALLS IS ONE SOURCE OF SUCH VOIDS; THEREFORE, NATURAL SOILS SHOULD BE PLACED IN THESE VOIDS AT THE MOST CONVENIENT TIME DURING CONSTRUCTION TO ENSURE FABRIC CONFORMITY TO THE EXCAVATION SIDES.
- PVC SHOULD BE IN ACCORDANCE WITH RIDOT SPECIFICATION SECTION M.04 DRAINAGE AND THE FOLLOWING PROVISIONS, AS APPLICABLE. PVC DISTRIBUTION PIPES SHALL BE SCHEDULE 40 AND MEET ASTM STD. D 1784. ALL FITTINGS AND PERFORATIONS (1/2 INCH IN DIAMETER) SHALL MEET ASTM STD. D 2729.
- THE CONTRACTOR MUST REFER TO STORMTECH'S INSTALLATION INSTRUCTIONS FOR A TABLE OF ACCEPTABLE VEHICLE LOADS AT VARIOUS DEPTHS OF COVER. THIS INFORMATION IS ALSO AVAILABLE AT STORMTECH'S WEBSITE: WWW.STORMTECH.COM. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING VEHICLES THAT EXCEED STORMTECH'S REQUIREMENTS FROM TRAVELING ACROSS OR PARKING OVER THE STORMWATER SYSTEM. TEMPORARY FENCING, WARNING TAPE AND APPROPRIATELY LOCATED SIGNS ARE COMMONLY USED TO PREVENT UNAUTHORIZED VEHICLES FROM ENTERING SENSITIVE CONSTRUCTION AREAS.



- SEDIMENT CONTROL SHOULD BE INSTALLED PARALLEL TO THE BASE OF THE SLOPE OR OTHER DISTURBED AREA IN EXTREME CONDITIONS (I.E., 2:1 SLOPES). A SECOND SEDIMENT CONTROL SHALL BE CONSTRUCTED AT THE TOP OF THE SLOPE.
- EFFECTIVE SOX HEIGHT IN THE FIELD SHOULD BE AS FOLLOWS:
 12" DIAMETER SEDIMENT CONTROL = 9.5" HIGH,
 18" DIAMETER SEDIMENT CONTROL = 14.5" HIGH
- STAKES SHALL BE INSTALLED THROUGH THE MIDDLE OF THE SEDIMENT CONTROL ON 10 FT (3M) CENTERS, USING 2 IN (50MM) BY 2 IN (50MM) BY 3 FT (1M) HARDWOOD STAKES. IN THE EVENT STAKING IS NOT POSSIBLE, I.E. WHEN SEDIMENT CONTROL IS USED ON PAVEMENT, HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE SEDIMENT CONTROL TO HELP STABILIZE DURING RAINFALL/RUNOFF EVENTS.
- STAKING DEPTH FOR SAND AND SILT LOAM SOILS SHALL BE 12 IN (300MM), AND 8 IN (200MM) FOR CLAY SOILS.
- SOCK IS TYPICALLY FILLED WITH 100% WENT, WEED/SEED/DISEASE FREE RECYCLED KILN-DRIED INDUSTRIAL WOOD WASTE BUT CAN ALSO BE FILLED WITH LOCALLY PRODUCED COMPOST OR CHIPPED TREEBARK. FOLLOW MANUFACTURER'S INSTRUCTIONS.

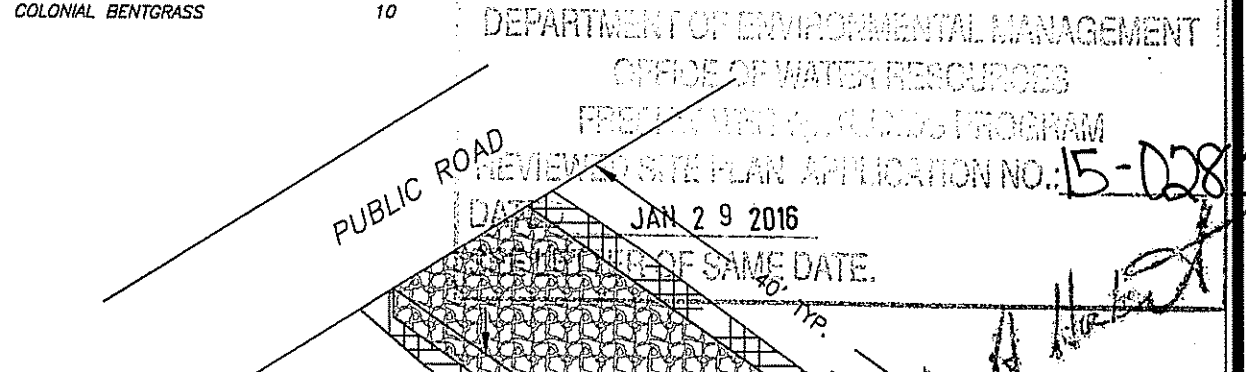


GENERAL USE - TURFGRASS SEED MIX. (URI #2)
 APPLICATION RATE: 5-7 LBS / 1,000 S.F.

MIX	% BY VOLUME
CREEPING RED FESCUE	40
IMPROVED KENTUCKY BLUEGRASS	20
KENTUCKY BLUE 98/85	20
PERENNIAL RYEGRASS	20

SHADE / LOW MAINTENANCE TURFGRASS SEED MIX. (URI #3)
 APPLICATION RATE: 4-5 LBS / 1,000 S.F.

MIX	% BY VOLUME
CREEPING RED FESCUE	50
FALL FESCUE OR REED CANARYGRASS	50



- SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE RI STANDARD SPECIFICATIONS.
 - CRUSHED STONE SHALL CONFORM TO THE FOLLOWING GRADATION:
- | U.S. STANDARD SIEVE SIZE | % PASSING BY WEIGHT |
|--------------------------|---------------------|
| 2" | 100 |
| 1.5" | 95-100 |
| 1" | 75-95 |
| 0.75" | 40-65 |
| 0.425" | 5-15 |

SITE PLAN
OAKWOODS DRIVE
A.P. 49-1 / LOT 164
SOUTH KINGSTOWN, RHODE ISLAND

PREPARED BY:
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PREPARED FOR:
MELISSA & SEAN MCDONALD
 2 CHRISTOPHER CT.
 WESTERLY, RHODE ISLAND
 OWNER / APPLICANT

DATE: 11/17/15
 SCALE: 1"=40'
1
 SHEET 1 of 1

REVISIONS

REV.	DATE	DESCRIPTION	DATE: 11/17/15