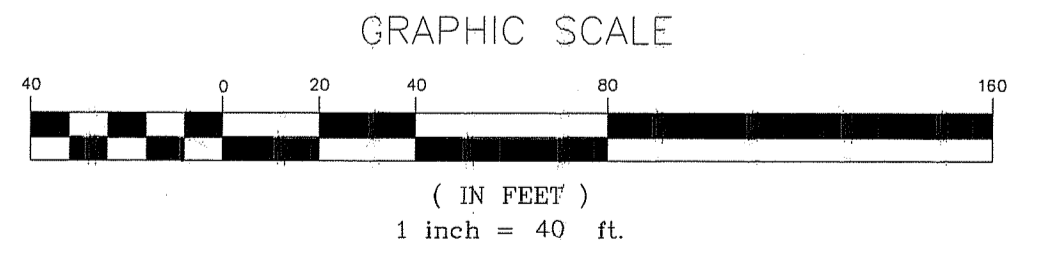


DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED **NOV 17 2020** FILE # **20-0236**
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Freeman

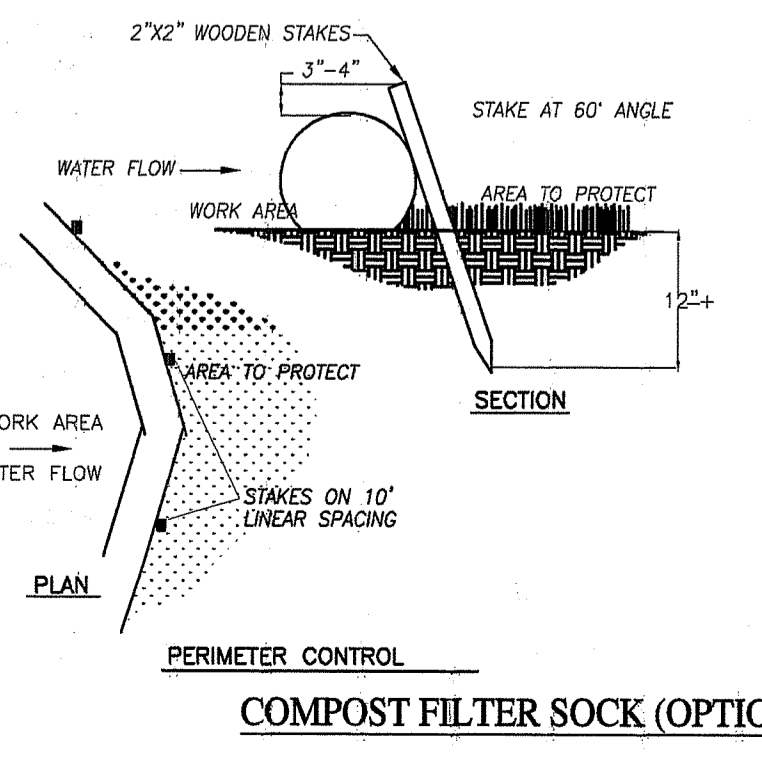


- LEGEND**
- 101' --- EXISTING CONTOURS
 - 10' --- PROPOSED CONTOUR
 - EXISTING SITE CONDITIONS
 - PROPOSED CONDITIONS
 - PROPERTY LINE
 - EXISTING WATER LINE
 - EXISTING WELL
 - EXISTING UTILITY POLE
 - EXISTING DRAINAGE
 - TREELINE
 - STONEMALL
 - FENCE
 - TEST HOLES / SOIL PROBS
 - EROSION CONTROLS

- LANDSCAPING REQUIREMENTS:**
- EVERGREEN SCREEN
STACKER PLANTINGS 7' O.C.
- EVERGREEN TREES:
3" TALL BALLED AND BURLAPPED THUA OCCIDENTALIS NIGRA - ARBORVITAE OR JUNIPERUS VIRGINIANA - EASTERN RED CEDAR
- 3" TALL BALLED AND BURLAPPED MYRTICA PENNSYLVANICA - NORTHERN BAYBERRY VACCINIUM CORYMBOSUM - HIGH BUSH BLUEBERRY LEX VERTICILLATA - WINTERBERRY VIBURNUM DENTATUM - SOUTHERN ARROWWOOD

- TEMPORARY WINTER MULCH / SOIL STABILIZATION**
- IF 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 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 GRINDINGS, OR OTHER COMPOSTED WOOD PRODUCTS. WOOD CHIPS, GROUND CONSTRUCTION DEBRIS AND PROCESSED WOOD DEBRIS ARE NOT ACCEPTABLE.
 - APPLY THE EROSION CONTROL MIX AS A LAYER AT LEAST THREE INCHES THICK. DO NOT COMPACT.
- HAY MULCH**
- USE HAY MULCH AS A TEMPORARY MEASURE TO PROTECT BARE SOILS OR TO COVER NEWLY SEEDS 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 BY STAPLING NETTING OVER THE MULCH ACCORDING TO MANUFACTURER'S RECOMMENDATIONS, OR STRETCHING TWINE BETWEEN PEGS IN A CRISS-CROSS PATTERN OVER THE MULCH (4-6 PEGS PER SQ YD).
 - STRAW / HAY SHALL BE APPLIED AT 90# / 1,000 S.F. FREE FROM WEEDS AND ANCHORED WITH MULCH NETTING.

- REGULATED AREAS & WATERWAYS**
- DISTURBED AREAS IN BUFFER ZONES WILL BE SEEDS WITH A WILDLIFE CONSERVATION MIX.
- BUFFER ZONES / WETLAND AREAS:**
- APPLICATION RATE: 5 LBS / 1,000 S.F. MIX % BY VOLUME
- | | | |
|--------------------------------|----|---|
| PERENNIAL BLYERGRASS | 25 | 1 |
| CREeping RED FESCUE | 25 | 1 |
| ANNUAL RYE | 25 | 1 |
| TALL FESCUE | 17 | |
| KENTUCKY BLUEGRASS | 8 | |
| COLONIAL BENTGRASS | 1 | |
| RED TOP | | |
| WHITE CLOVER* | | |
| * CLOVER SEED TO BE INOCULATED | | |
- SHADE / LOW MAINTENANCE LAWN (LRI #3)**
- APPLICATION RATE: 4-5 LBS / 1,000 S.F. MIX % BY VOLUME
- | | |
|---------------------|----|
| CHEWING FESCUE | 50 |
| KENTUCKY BLUE 98/85 | 40 |
| COLONIAL BENTGRASS | 10 |

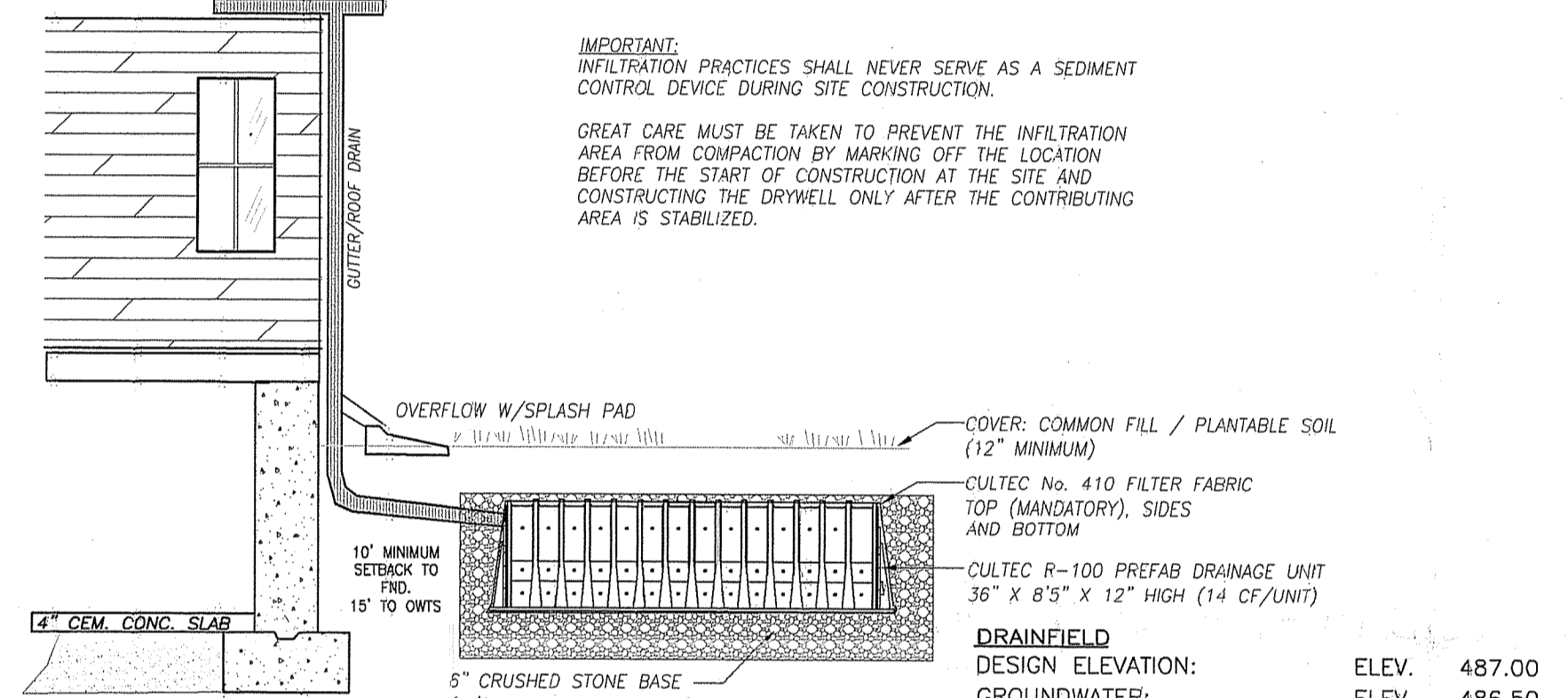


GENERAL NOTES:

- THIS SITE IS NOT LOCATED WITHIN A CRITICAL RESOURCE AREA, DRINKING WATER RESERVOIR, GROUNDWATER RESERVOIR, OR NATURAL RESOURCE AREA AS DEFINED BY CRMC & RIDEM.
- ACCORDING TO THE FEMA NATIONAL FLOOD INSURANCE RATE MAP, COMMUNITY PANEL # 44007 C0130G, REVISED 3/2/2009, THE ENTIRETY OF PLAT 138 / LOT 35 IS CLASSIFIED AS ZONE X, UNSHADED, WHICH IS DEFINED AS AREAS OF MINIMAL FLOOD HAZARD - AREAS WHICH ARE OUTSIDE THE SPECIAL FLOOD HAZARD AREA (SFHA).
- ONSITE SOILS IN THE DEVELOPABLE AREAS ARE CLASSIFIED BY THE RHODE ISLAND SOIL SURVEY AS (CHB) CANTON AND CHARLTON VERY STONY FINE SANDY LOAMS, 3 TO 8% SLOPES & (SUB) SUTTON VERY STONY FINE SANDY LOAM (0 TO 8% SLOPES). BOTH SOILS ARE LISTED AS SUITABLE FOR DEVELOPMENT; HYDROLOGICAL GROUP B SOILS. WETLAND SOILS ARE CLASSIFIED AS (RF) RIDGEBURY, WHITMAN, AND LEICESTER EXTREMELY STONY FINE SANDY LOAMS.
- THIS PARCEL WILL BE SERVICED BY PRIVATE WELL WATER; PRIVATE SEWER; ELECTRIC POWER & TELECOMMUNICATIONS OF CHOICE. NO PUBLIC WASTEWATER SYSTEM LIES WITHIN 200' OF THE PROPOSED WORK.
- ALL PRIVATE DRINKING WATER WELLS WITHIN 200' OF THE PROPOSED OWTS HAVE BEEN SHOWN. ALL PUBLIC WELLS WITHIN 500' OF THE SITE HAVE BEEN SHOWN. PUBLIC WATER SERVICE IS NOT PROVIDED IN THIS NEIGHBORHOOD.

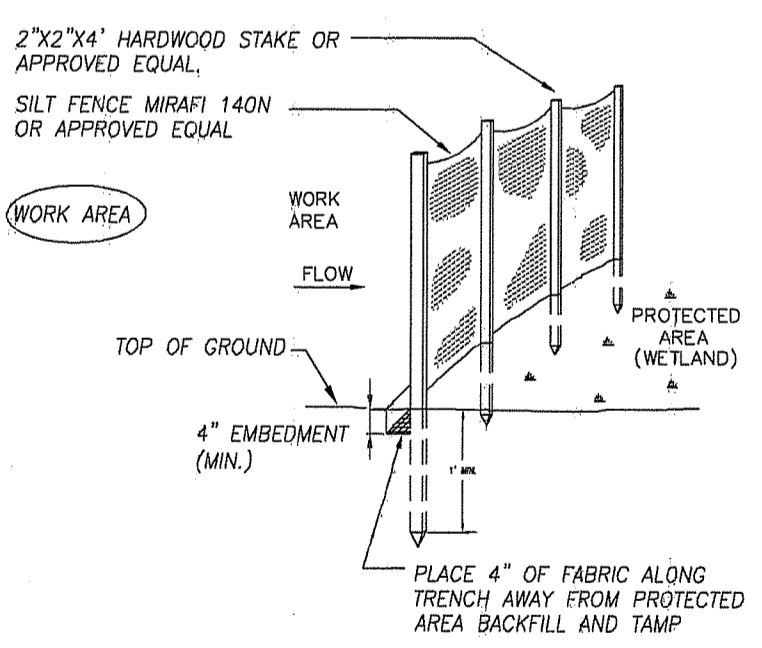
INFILTRATION SYSTEM CONSTRUCTION NOTES

- 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 CULTEC RECHARGER C-100 HD UNITS. ANY SUBSTITUTIONS MUST BE OF EQUAL SIZE AND COMPRISED OF HIGH MOLECULAR WEIGHT HIGH DENSITY POLYETHYLENE (HDPE) AND MEET AASHTO H10 AND H20 STANDARDS. (CULTEC, INC. OF BROOKFIELD, CT. (203-775-4416 OR 1-800-428-5832)
- A 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 "C" CRITERIA IS CONTAINED INCLUDES (MIRAFI 180-N, AMOCO 4552, WEBTEC N70, GEOLON N70, CARTHAGE FX-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 SAND LAYER ON THE BOTTOM OF THE INFILTRATION TRENCH/CHAMBER FOR A DISTANCE OF 6 TO 12 INCHES.
- THE STONE AGGREGATE SHOULD BE PLACED IN LIFTS AND COMPACTED USING PLATE COMPACTORS. A MAXIMUM LOOSE LIFT THICKNESS OF 8 INCHES IS RECOMMENDED. THE GRAVEL STONE FOR THE INFILTRATION TRENCH/CHAMBER SHALL BE WASHED AND MEET ONE OF THE FOLLOWING AASHTO STD. M-43; SIZE NO. 2 OR NO. 3.
- 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 VOID; THEREFORE, NATURAL SOILS SHOULD BE PLACED IN THESE VOID AT THE MOST CONVENIENT TIME DURING CONSTRUCTION TO ENSURE FABRIC CONFORMITY TO THE EXCAVATION SIDES.
- PVC PIPES SHALL BE SCHEDULE 40 AND MEET ASTM STD. D 1784.



ROOF DRYWELL INFILTRATION SYSTEM

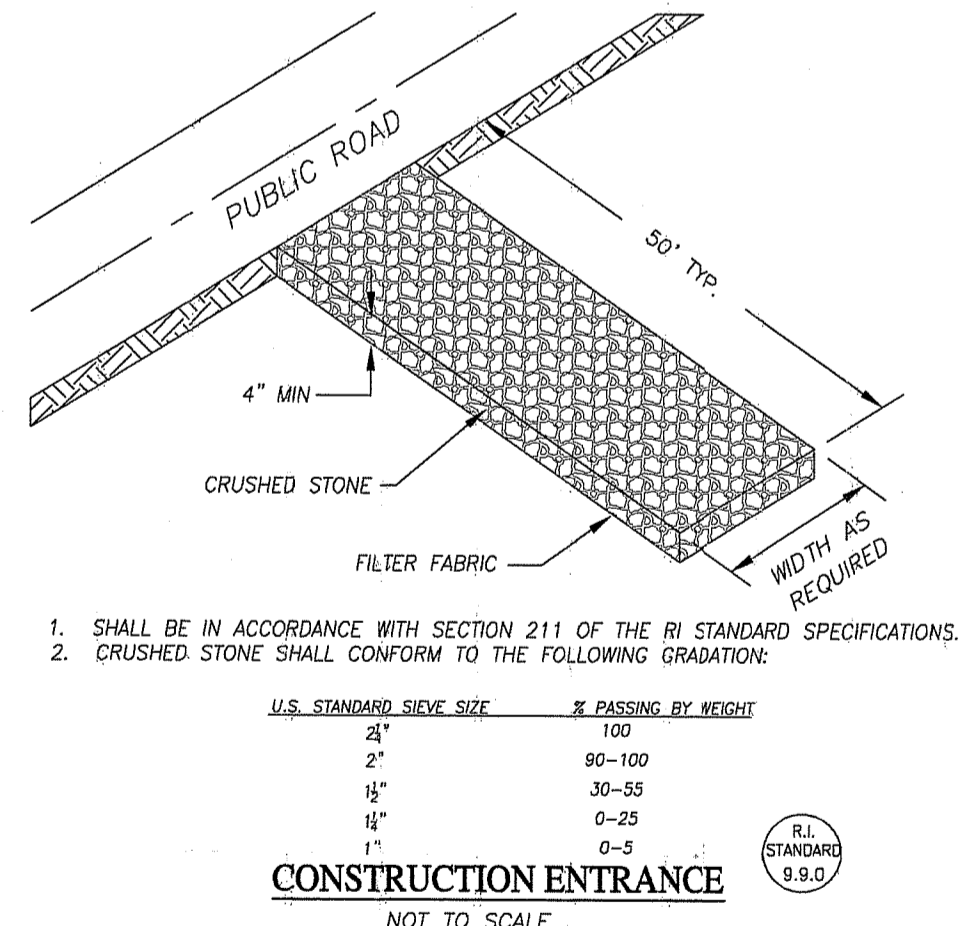
CULTEC C-100 PREFAB DRAINAGE UNIT
36" X 8.5" X 12" HIGH (14 CF/UNIT)



SILT FENCE DETAIL

NOTES:

- 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:
8" DIAMETER SEDIMENT CONTROL = 8.5' HIGH
12" DIAMETER SEDIMENT CONTROL = 9.5' HIGH
18" DIAMETER SEDIMENT CONTROL = 14.5' HIGH
24" DIAMETER SEDIMENT CONTROL = 19' HIGH
 - STAKES SHALL BE INSTALLED THROUGH THE MIDDLE OF THE SEDIMENT CONTROL ON 10 FT (3M) CENTERS, LONG 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 HARBOR, HEAVY CONCRETE BLOCKS SHALL BE USED BETWEEN 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.
 - SOX IS TYPICALLY FILLED WITH 100% INERT, WEED/SEED/DISEASE FREE RECYCLED KILN-DRIED INDUSTRIAL WOOD WASTE BUT CAN ALSO BE FILLED WITH LOCALLY PRODUCED COMPOST OR CHIPPED TIMBER DEBRIS. FOLLOW MANUFACTURER'S INSTRUCTIONS.
- NOTE: FOLLOW MANUFACTURER'S SPECIFICATION



CONSTRUCTION ENTRANCE

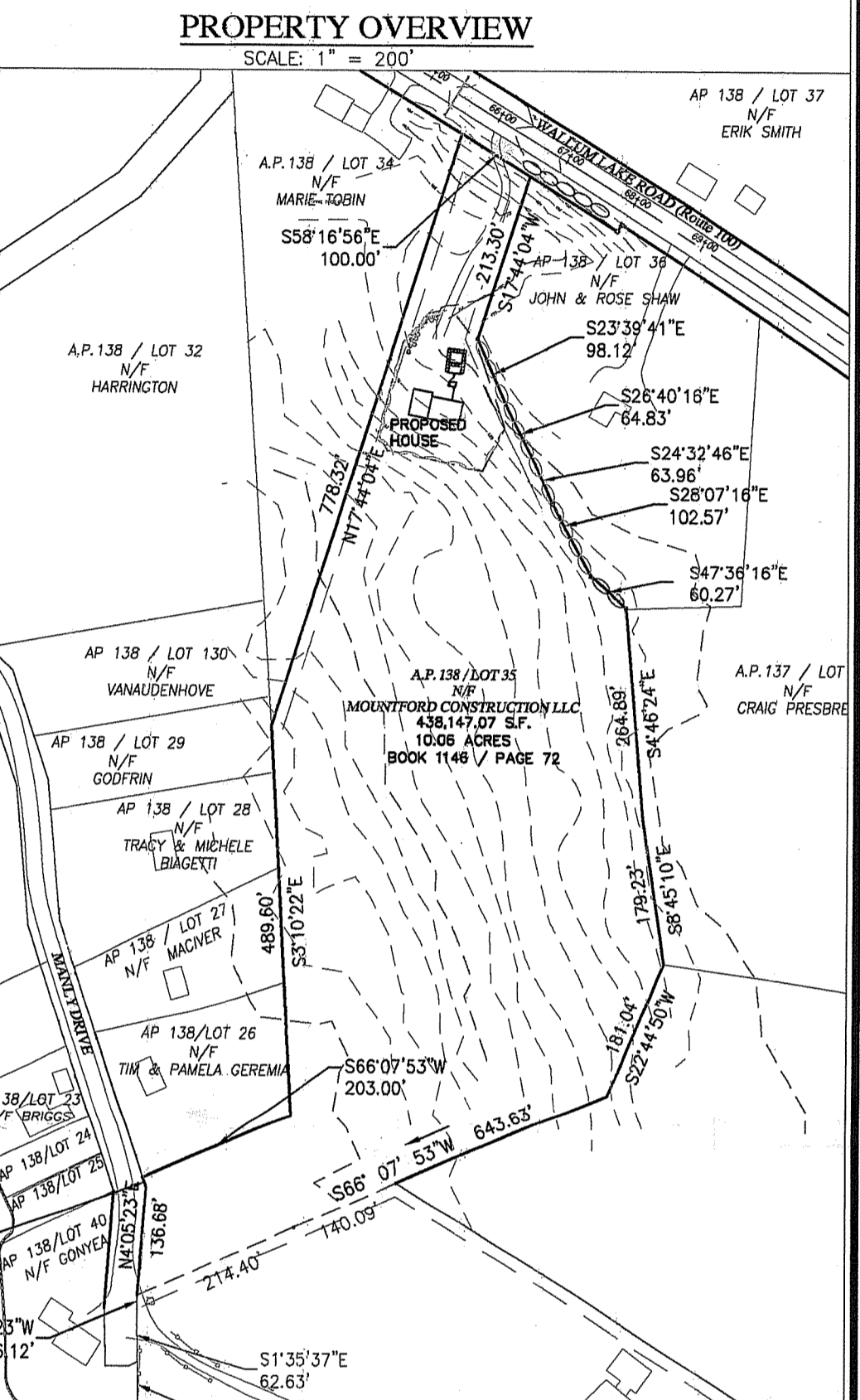
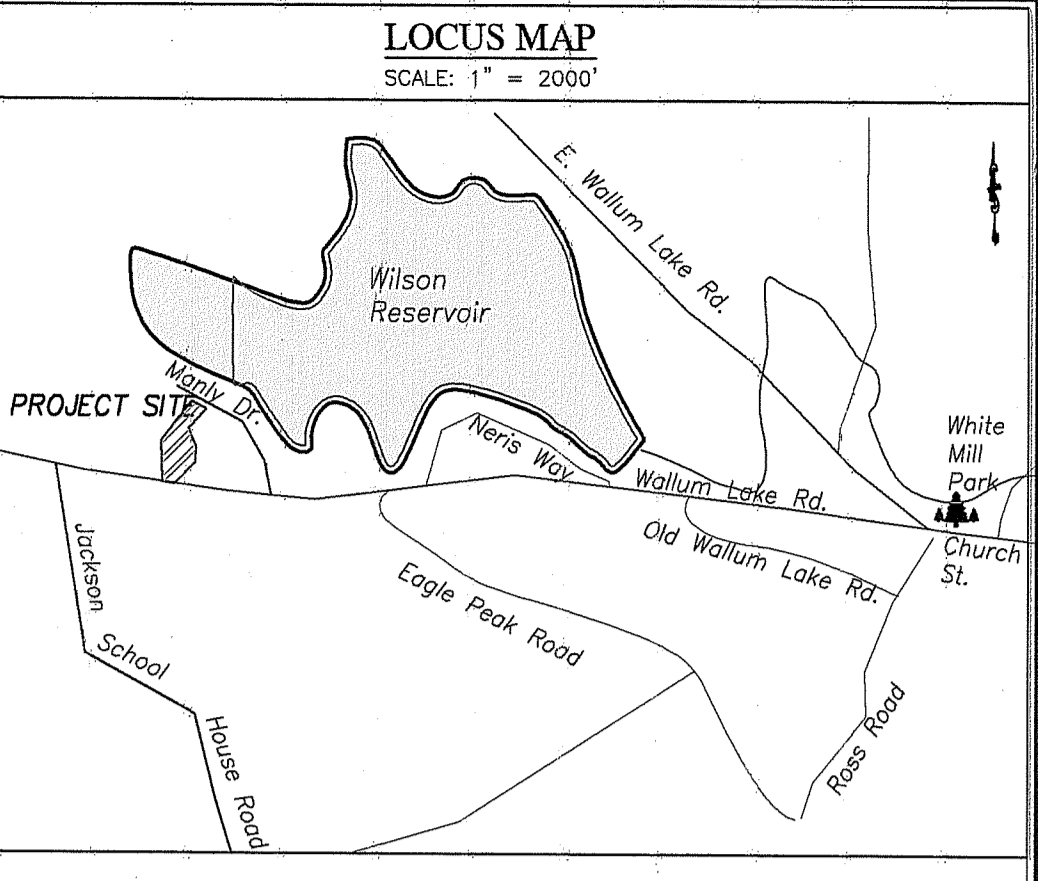
NOT TO SCALE

DIMENSIONAL REGULATIONS

BURRILLVILLE ZONING DISTRICT: F-5

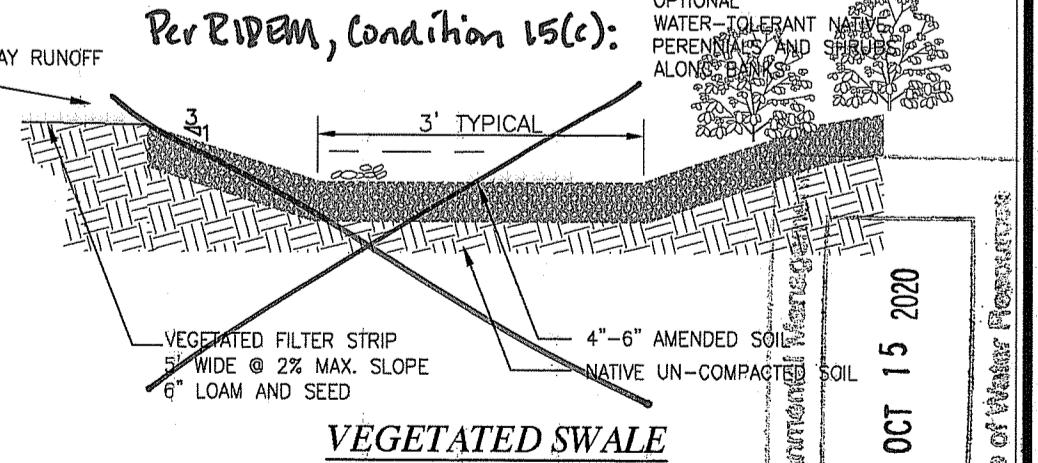
MINIMUM LOT AREA: 5 ACRES
MINIMUM LOT FRONTAGE: 450 FT.
MAXIMUM LOT (BLDG) COVERAGE: 25%
MINIMUM YARD SETBACKS:
FRONT 40 FT.
SIDE 15 FT.
REAR 40 FT.

MAXIMUM STRUCTURE HEIGHT:
PRINCIPAL 50 FT.
ACCESSORY 25 FT.



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.
- FILTER SOCKS / SILT FENCING SHALL BE PLACED IMMEDIATELY DOWN SLOPE OF SOIL DISTURBANCE AREAS AS SHOWN ON THE PLANS. BALED HAY EROSION CHECKS SHALL BE PLACED AT ALL DRAINAGE STRUCTURE INLETS, EXISTING AND PROPOSED, DURING CONSTRUCTION. ADDITIONAL CONTROLS 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 FILTER SOCKS AND COVERED WITH EROSION CONTROL SEED MIX OR WINTER MULCHING.
- 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. SEE BELOW FOR SEED MIXTURES.
- ANY SLOPE PROTECTION BLANKETS USED AT THIS PROJECT SHALL BE THE 100% BIODEGRADABLE STRAW AND COCONUT FIBER BLANKETS WHICH SHALL DISINTEGRATE IN-PLACE, NOT REQUIRING FUTURE MAINTENANCE.



SITE PLAN
ASSESSOR'S PLAT 138 / LOT 35
WALLUM LAKE ROAD
BURRILLVILLE, RHODE ISLAND

PREPARED BY:
JEFFREY J. CAMPOPIANO, P.E.
16 WEST MAIN STREET
WICKFORD, RHODE ISLAND 02852
PHONE: (401) 295-3307

REGISTERED PROFESSIONAL ENGINEER CIVIL
No. 9872

REV.	DATE	DESCRIPTION
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OCT 15 2020