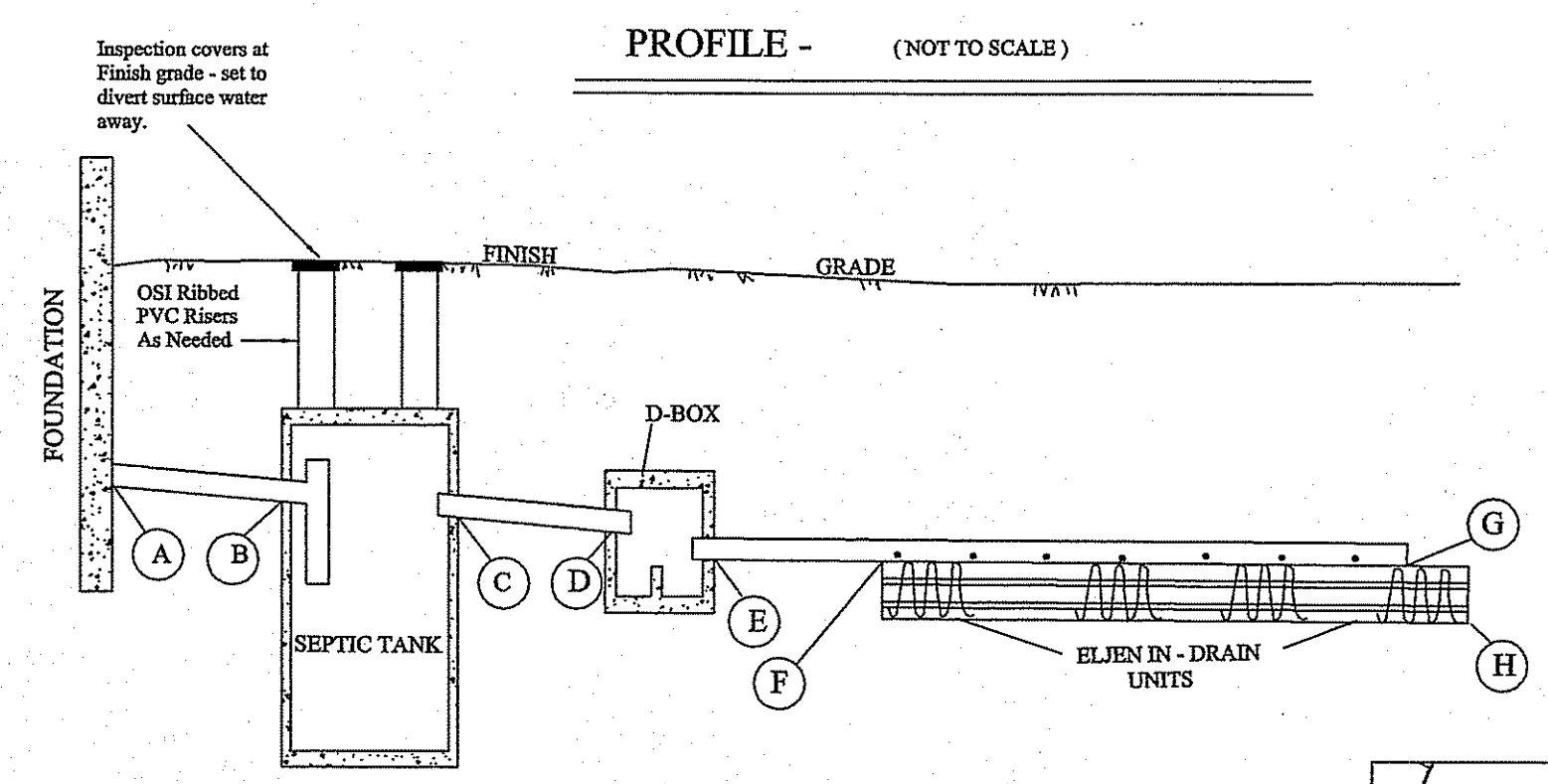
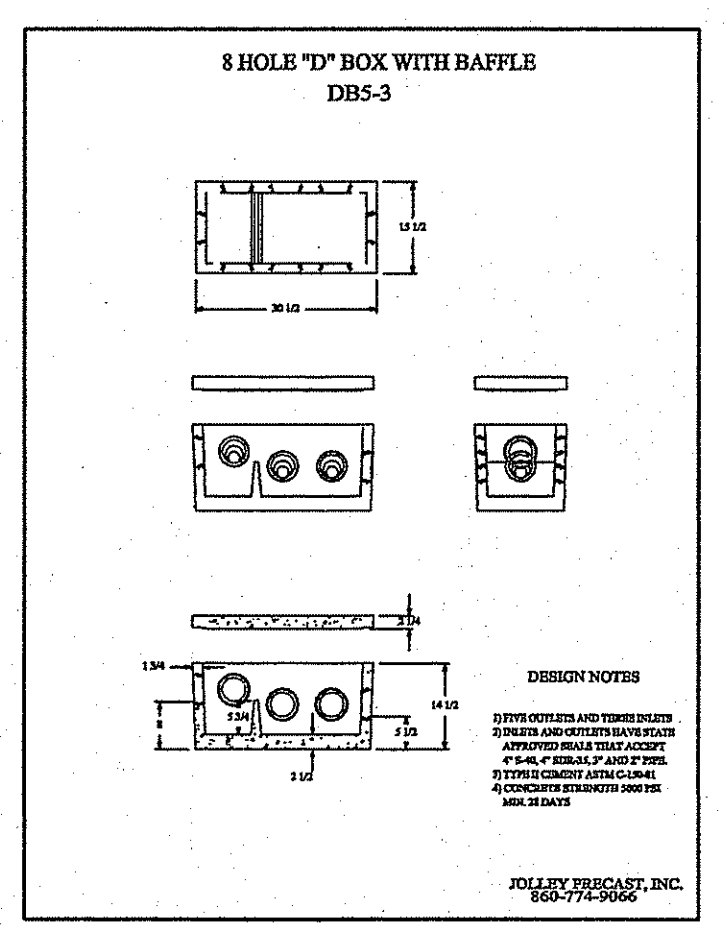
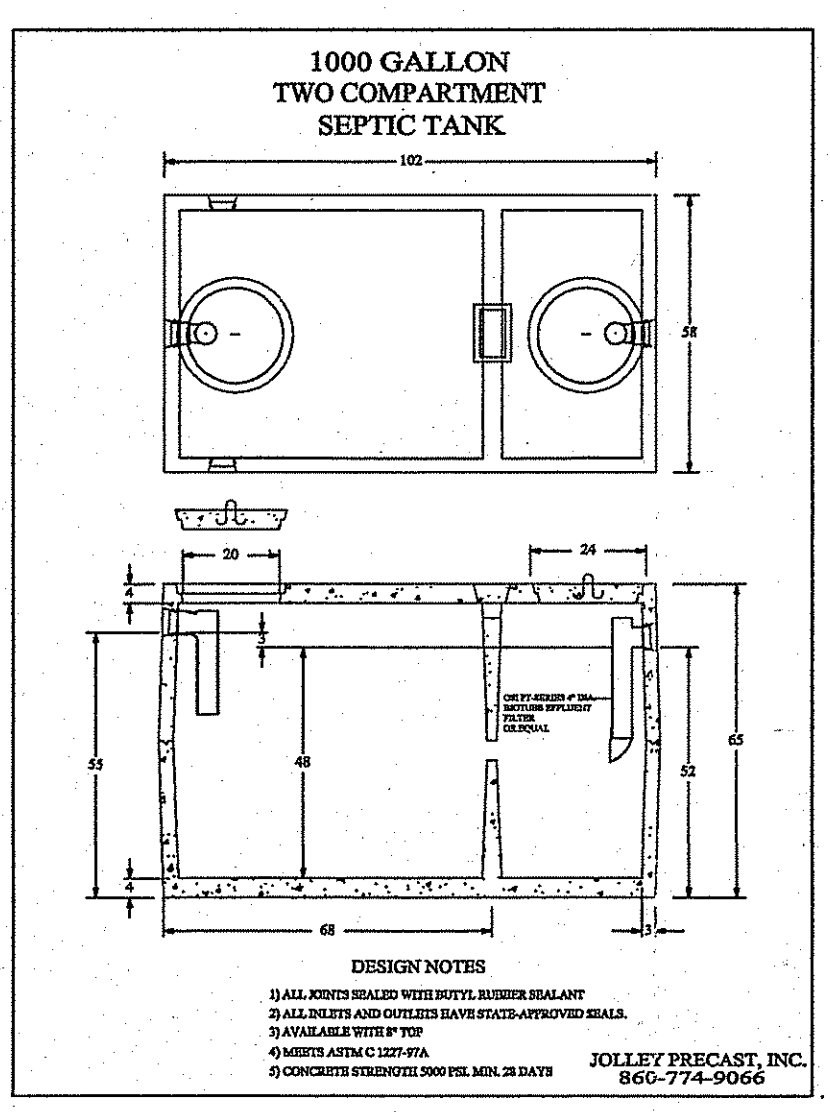


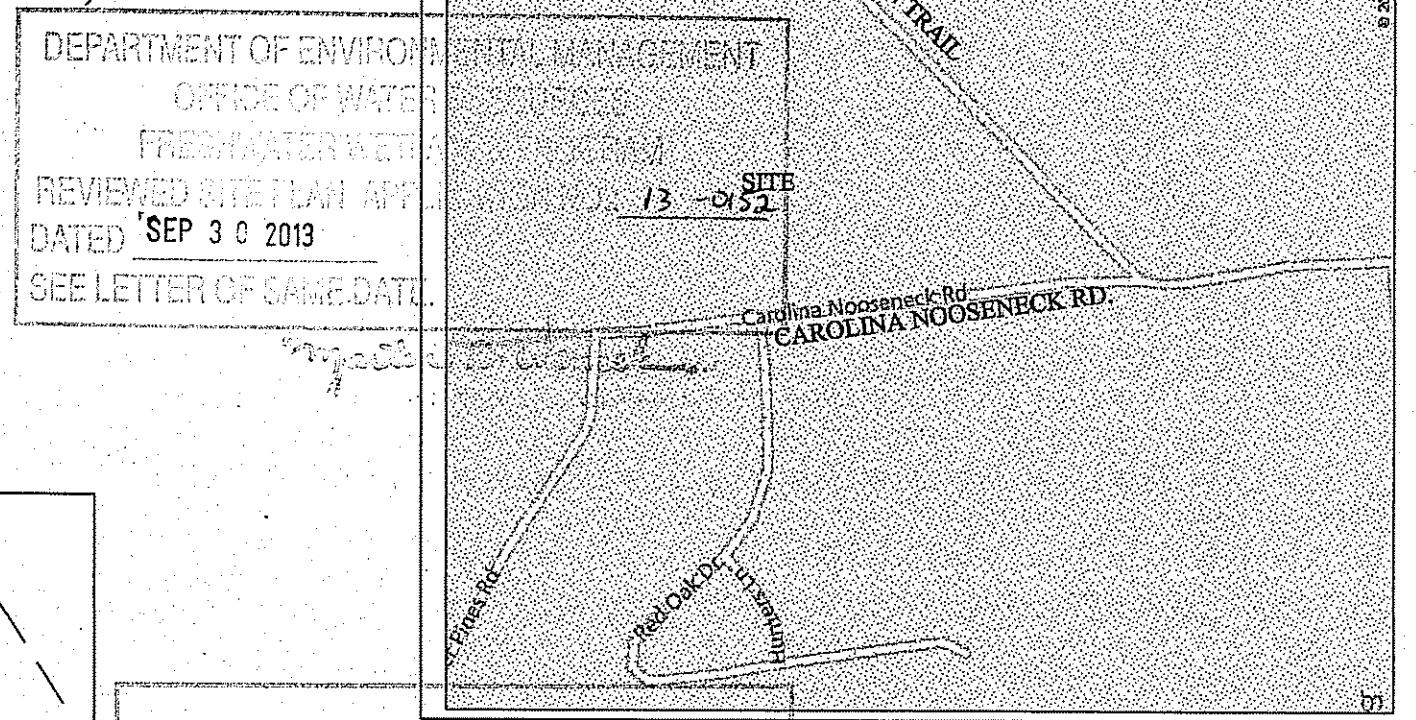
CURRENT ZONING DISTRICT = RM2
 LOT SIZE = 2 AC.
 LOT WIDTH = 200'
 FRONT YARD = 50'
 REAR YARD = 100'
 SIDE YARD = 35'



SEPTIC SYSTEM ELEVATION SCHEDULE (FT.)

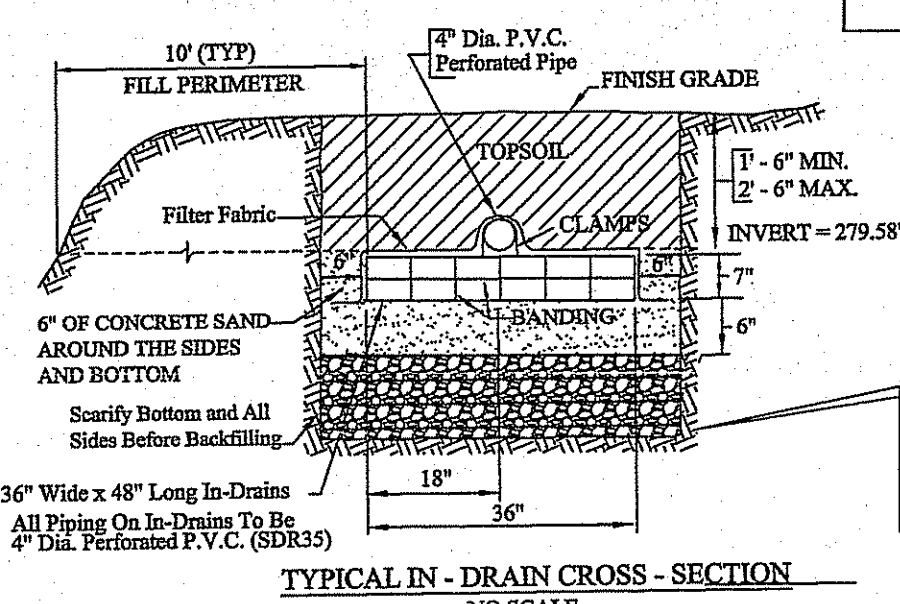
A. DWELLING INVERT = 285.30'
B. SEPTIC TANK INV. IN = 284.17' (TOP TANK = 284.67')
C. SEPTIC TANK INV. OUT = 283.92'
D. DISTRIBUTION BOX INV. IN = 279.92'
E. DISTRIBUTION BOX INV. OUT = 279.75'
F. IN-DRAIN HEAD INVERT = 279.58'
G. IN-DRAIN END INVERT = 279.58'
H. BOTTOM OF IN-DRAIN UNITS = 279.00'

* There is no impervious soil layer or ledge within 5 feet of the bottom of the proposed septic field.



Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

SEP 3 2013

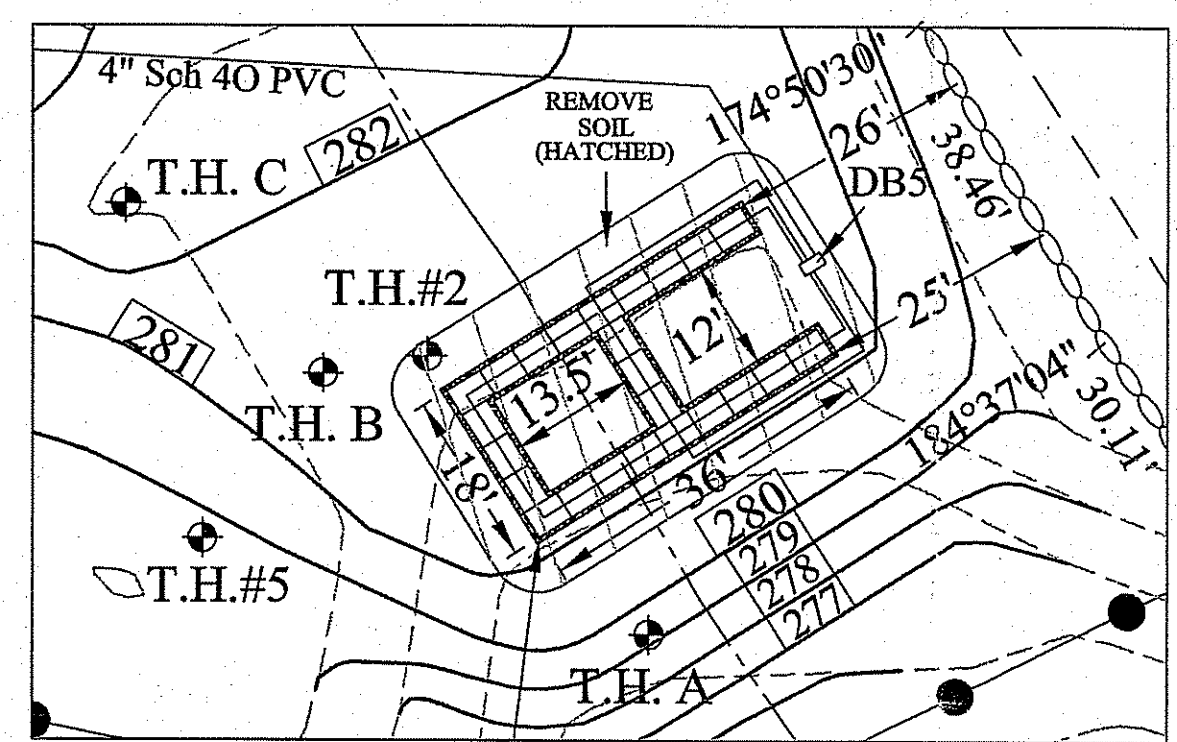


IN-DRAIN DESIGN CRITERIA
 115 GALS PER BEDROOM X 3 = 345 GALS PER DAY / 0.52 (5 SOIL) = 663.46 S.F.
 663.46 S.F. / 7 S.F. PER L.F. (IN-DRAINS) = 94.78 L.F. = 24 L.F. (total of In-Drain Interconnections)
 = 70.78 L.F. / 2 LINES = 35.39 L.F. 36"/4" (Length of In-Drain) = 9 UNITS PER LINE + 6 UNITS (Interconnections)
 = 24 TOTAL IN-DRAIN UNITS TOTAL S.F. PROVIDED = 72' x 24' = 96' x 7' = 672 S.F. > 663.46 REQUIRED

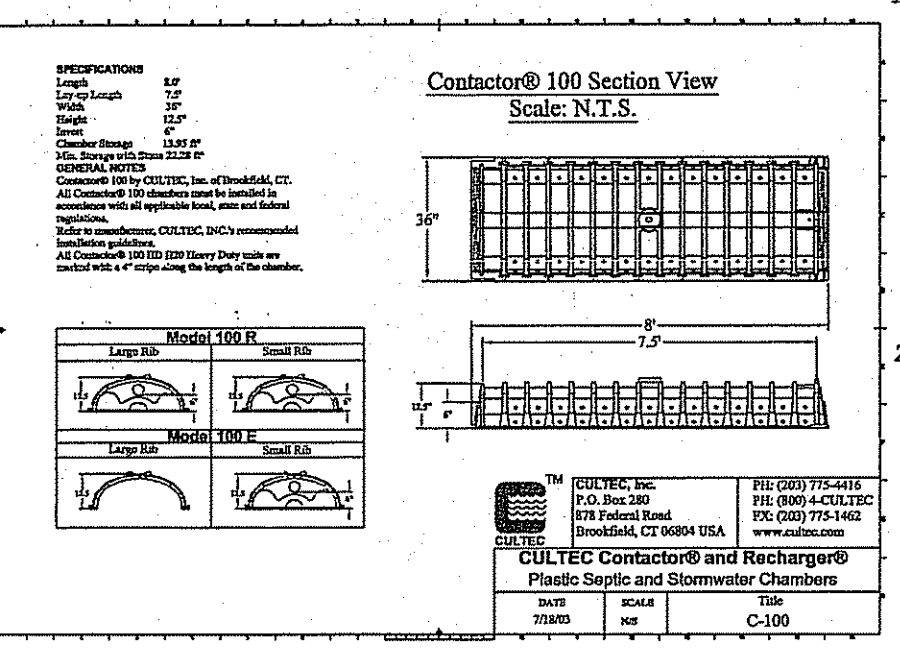
NOTE: STRIP SOIL & VEGETATION DIRECTLY BELOW & 5' OUT FROM SYSTEM FILL WITH CLEAN COARSE GRAVEL

ROOF RUNOFF ELEVATION SCH.

ZONE 1	ZONE 2
ROOF DRAINAGE AREA = 1,344 S.F. X 0.08' (1") RAINFALL = 107.52 IN ³	ROOF DRAINAGE AREA = 1,344 S.F. X 0.08' (1") RAINFALL = 107.52 IN ³
+ 22.288 IN ³ / UNIT = 4.82 UNITS	+ 22.288 IN ³ / UNIT = 4.82 UNITS
5 CULTREC CONTACTOR 100 UNITS	5 CULTREC CONTACTOR 100 UNITS
PROVIDED W/ 6" OF 1.5" - 2" WASHED CRUSHED STONE BELOW & W/ 1" OF 1.5" - 2" WASHED STONE AROUND THE PERIMETER	PROVIDED W/ 6" OF 1.5" - 2" WASHED CRUSHED STONE BELOW & W/ 1" OF 1.5" - 2" WASHED STONE AROUND THE PERIMETER
MIN. FINISH GRADE = 286.79'	MIN. FINISH GRADE = 284.46'

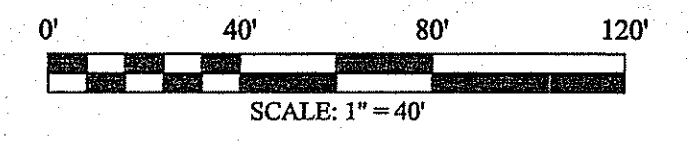
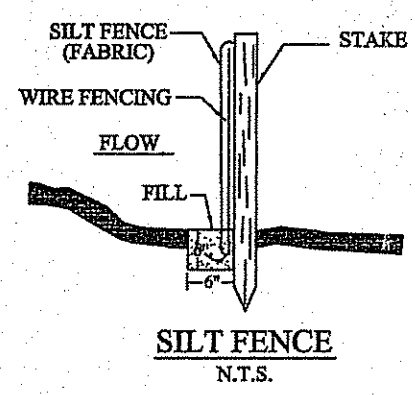


- SEPTIC CONSTRUCTION NOTES:
- The water supply will be by a proposed private well, which is more than 100' from the proposed OWTS. There are no neighboring existing or proposed private wells within 100' or proposed private wells within 500' of the proposed septic system. The general vicinity is served with private wells; all existing or proposed private wells within 200' of the OWTS are as referenced.
 - There will be no subsurface water lines or subsurface drains within 25 ft. of proposed septic field.
 - Clear all trees and stumps within 10 ft. of proposed septic system.
 - Prior to any construction, it is the responsibility of the contractor to the benchmark. If any discrepancies are noted, please contact designer immediately.
 - The Eljen In-Drain units are to have a minimum of 6" of concrete sand (less than 5% passing a # 200 sieve, ASTM C-33) directly around and below each unit.
 - The topsoil, subsoil and other undesirable material in the system area (trench lines) and 5' beyond the system (hatched area) must be removed to elev. 276.50' ft. The bottom of the excavation area must be scarified, after scarification backfill the excavated area with clean coarse gravel up to elev. 279.58', then remove gravel in area of trench lines down to elev. 278.20' and install 6" of concrete sand up to elev. 279.00' (bottom of In-Drain Units). Install the remaining field as indicated, the Eljen In-Drain units are to be set level per the manufacturer's specifications.
 - The distribution box shall have a minimum bottom area of 3 sq. ft. and shall be placed on a stable level surface (compacted processed gravel or processed stone, 1/2" to 2" diameter). D-box to adhere to OWTS Rule 31.
 - The leaching area is to be graded properly to finish grade and loaded (4" minimum compacted) and seeded (arvn mix). Minimum slope over field must be 1% but not to exceed 3%.
 - Parking or vehicular traffic over leach field is prohibited. Where vehicular traffic is proposed over any piping Sch. 40 PVC must be utilized. The proposed building sewer line from the house to the septic tank will be 4" Sch. 40 PVC.
 - Minimum cover over distribution line invert = 2.5 ft. (Elev. 282.08'). Minimum cover over distribution line invert = 1.50 ft. (Elev. 281.88').
 - The property lines as delineated meet a Class III Standard as adopted by the Rhode Island Board of Registration for Professional Land Surveyors.
 - The distribution line head elevation of 279.58 ft. must be maintained 10 ft. from the entire septic field edge (edge of In-Drain units).
 - Clamps provided with units are to be placed over the pipe and pressed into In-Drain units to prevent movement of pipe during backfilling.
 - All leach field piping is to be 4" SDR-35 PVC or equivalent. The piping over the Eljen In-Drain units is to be perforated only on the bottom (all other piping is to be solid).
 - Prior to backfilling over the Eljen In-Drain units a filter fabric is to be placed over the top. All backfill material is to be screened so as to be free of rocks, etc. In backfilling the following sequence is to be followed:
 - Secure filter fabric with hand shoveled sand.
 - First heavy load must be placed over covered (filter fabric) pipe.
 - Second and third loads are to be placed on either side of first load.
 - Repeat 1 and 2 until entire trench is backfilled.
 - All backfilling/grading should be done in 6" lifts. Upon completing all backfilling, compact with a light track machine with caution, avoid crushing or shifting the pipe assembly. When compacting the soil, the light track machine must follow the direction of the pipe assembly (parallel), do not run the track machine perpendicular to the pipe assembly. Do not use a wheeled machine to backfill over the pipe assembly and units to shift or inappropriately settle.
 - The distribution box should be physically marked in the field.
 - A benchmark must be set within 150 feet of the proposed septic system and dwelling, prior to the start of any construction and must remain in place until all construction has been completed.
 - The proposed activity is not within RIDEM-Freshwater Wetlands jurisdiction. The proposed OWTS is 110' from the freshwater wetland edge.
 - Install a two-compartment 1000-gallon precast concrete tank with proper inlet sanitary tee and outlet tee (housing an Oranco FT - Series 4" Diameter Biotube Effluent Filter or equivalent). Bring inspection covers over the inlet and outlet ports to finish grade. Inspection covers are to be fiberglass and mechanically fastened to ribbed PVC risers adhering to the requirements of OWTS Rule 26.7 Access Openings. The septic tank should be pumped out every three to five years depending on use.
 - No garbage disposal units shall be tied into the plumbing network, as they are not allowed to discharge into the proposed septic system, per the manufacturer and RIDEM-OWTS Program requirements.
 - Discharge or backwash from a water treatment system is not allowed to drain into the proposed OWTS.
 - The wetland edge as delineated was flagged by Independent Environmental Consultants, Inc. Paul Shea, P.W.S.
 - The proposed project is outside RIDEM - Freshwater Wetlands jurisdiction as all proposed alterations are outside all applicable wetland buffers/setbacks.
 - The parcel as delineated is located partially in a Flood Zone A (no BFE established) on the Flood Insurance Map entitled "FIRM Flood Insurance Rate Map Washington County, Rhode Island (All Jurisdictions) Panel 68 of 368 Community Richmond, Town of Map Number 44009C0068H Effective Date October 19, 2010".



LEGEND

- These standard symbols will be found in the drawing.
- ⊙ EX. DRILL HOLE
 - ▲ EX. WOOD STAKE
 - ⊕ SOIL EVALUATION OR TEST HOLE
 - ⊙ EXISTING OR PROPOSED WELL
 - STONE WALL
 - BUILDING SETBACK LINE
 - EXISTING CONTOUR ELEVATION
 - PROPOSED CONTOUR ELEVATION
 - W — WATERLINE
 - PROPOSED SPOT ELEV.
 - WETLAND EDGE



IN-DRAIN FIELD
 9 UNITS PER LINE X 2 LINES + 6 UNITS (INTERCONNECTED) = 24 TOTAL IN-DRAIN UNITS W/ 1" OF CONCRETE SAND AROUND & UNDER 18" W X 36".
 REMOVE SOIL & VEGETATION (HATCHED AREA) DIRECTLY BELOW AND 5' OUT FROM SYSTEM TO ELEVATION 276.20'. FILL WITH CLEAN COARSE GRAVEL TO ELEVATION 279.28'.

EUGENE F. SPRING
 No. 3166
 REGISTERED PROFESSIONAL ENGINEER

RICHARD A. GREENE
 No. 1731
 REGISTERED PROFESSIONAL LAND SURVEYOR

DATE	REVISIONS

PLAN SHOWING PROPOSED ON SITE WASTEWATER TREATMENT SYSTEM PREPARED FOR:
PIERRE DUVAL
 ASSESSOR'S PLAT 3C, LOT 7-4
 OLD MOUNTAIN TRAIL
 &
 CAROLINA NOOSENECK ROAD
 RICHMOND, R.I.
 SCALE: 1" = 40' DATE: JUNE 2013

RICHARD A. GREENE & ASSOCIATES, INC.
 220 RICHMOND TOWNHOUSE ROAD
 CAROLINA, RHODE ISLAND, 02812
 TEL: 401-364-9405
 FAX: 401-364-9403