

LOCATION MAP

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WETLAND PLANTING LIST & BUFFER POST REQUIREMENTS

SYMBOL	NAME	QUANTITY
●	BAYBERRY	23

- NOTES:
1. A double row of bayberry shall be planted in the area indicated. The plants shall be spaced 6 feet on center and shall be a minimum of 2 gallon capacity.
 2. Plantings shall be installed during the Spring or Fall (April - June and September - October).
 3. All plantings shall be guaranteed for 1 year. Plantings that do not survive within a year from installation shall be replaced.
 4. Area behind proposed plantings to be allowed to revegetate naturally.
 5. Install three buffer posts (pressure treated, cedar, or stone bounds) in the locations indicated. The buffer posts must be a minimum of two (2) feet above grade.

SEPTIC CONSTRUCTION NOTES:

1. Provide a two-compartment 1500-gallon precast concrete septic tank with proper inlet sanitary tee and outlet sanitary tee (housing an Orenco FT-Series 4" Diameter Biotope Effluent Filter or equivalent). Bring inspection cover over the outlet port to finish grade, the inlet port must have an inspection cover within 12" of finish grade. Inspection covers to be installed per OWTS Rule 26.7 Access Openings, pg. 54.
2. Construct a diffuser system as shown on site plan. Bring a minimum of one inspection cover 1 ft. from finish grade in each diffuser line per OWTS Rule 34.6.2 (Units 4 & 10). A total of 1.0 ft. of 3/4" to 2" washed processed stone is required around and underneath the diffusers. Excavate all soil in the proposed leach field (diffuser lines) to elevation 51.50 ft. removing brush, topsoil, subsoil, undesirable material (booklets, etc.), soil containing fines, and all trees including those within 10 feet of the proposed leach field. The bottom of the excavation must be level and thoroughly scarified. Place 6" (0.50') of clean, coarse gravel (per OWTS Rule 32.12) up to elev. 52.00 ft. (bottom of stone), then install 1.0' of 3/4" to 2" washed processed stone in each line up to elev. 53.00 ft. (bottom of flow diffusers). Construct the remaining septic field as indicated beginning with the placement of the diffuser units. Installation of the proposed leach field must adhere to OWTS Rule 34.7, pg. 69.
3. All septic field piping to be 4" SDR-35 PVC. The building sewer line shall be 4" Sch. 40 PVC. Vehicular traffic over piping is allowed if Sch. 40 PVC is used.
4. Stone used around and under diffusers is to be cleaned washed stone, 3/4" to 2" diameter, free of fines, dust, silt, sand, or other debris.
5. Area over diffusers to be brought to an average finish grade of 56.50 ft. with soil free from rocks (less than a 6" diameter). Maintain a finish grade of 54.00 ft. (diffuser invert) 10-ft. out from the septic field as indicated on site plan. Grade to ensure surface water runoff. Loam and seed area over installed system.
6. There are no water lines or drains including subsurface drains within 25 ft. of the proposed leach field and septic tank. There are no down-gradient subsurface drains within 50 ft. of the proposed leach field and septic tank.
7. Clear all trees and stumps within 10 ft. of septic field.
8. Prior to any construction, it is the responsibility of the contractor to verify the benchmark. If any discrepancies are noted, please contact designer immediately.
9. Parking or vehicular traffic over system is only allowed if HS-20 diffusers are specified.
10. Maximum cover over diffuser invert = 2.5 ft. (Elev. 56.50'). Minimum cover over diffuser invert = 1.5 ft. (55.50').
11. Benchmark is to be set within 150 ft. of proposed ISDS, prior to any construction.
12. There are no private wells existing or proposed within 100 ft. of the proposed leach field. All existing or proposed private wells within 200 ft. of the proposed leach field are as referenced and there are no existing or proposed public wells within 500 ft. of the proposed septic system.
13. 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 3/4" to 2" diameter) D-Box to adhere to OWTS Rule 31.
14. No garbage disposal units shall be tied into the existing plumbing network, as they are not allowed to discharge into the proposed septic system, per RIDEM-OWTS Program requirements.
15. The proposed improvements including the OWTS are more than 100' from the stream flow (< 10' wide) associated with spring and more than 50' from the Fringe wooded swamp contiguous with Franklin Swamp. The proposed leachfield is 150' from the freshwater wetland edge. There are no other freshwater wetlands within 200' of the proposed improvements. The proposed activity is outside CRMC jurisdiction.
16. The subject parcel is not located within the "Critical Resource Area" as defined by RIDEM-OWTS Rules.
17. Discharge or backwash from a water treatment system is not allowed to drain into the proposed septic system.
18. Reference is hereby made to that plan entitled, "Plan of Subdivision New Shoreham, R.I. for Bartram B. Plumb by Stanley Engineering, Inc. Scale: 1" = 50' February, 1979" as recorded in the Land Evidence Records of the Town of New Shoreham, RI under Envelope No. 162 and Map No. 211.
19. Wetland edge delineated (flagged) by other and field located by Richard A. Greene & Associates, Inc.
20. The plan as depicted conforms to a Class IV Standard Survey as established by the RI Board of Professional Surveyors.
21. The wetland edge northerly and southerly of the numbered wetland flags is approximate and is extrapolated from topographic mapping previously completed by Stanley Engineering. The wetland edge in these areas is basically at the toe of slope. The wetland edge (numbered flags) in near proximity to the proposed improvements is accurate and is based on an actual field survey completed by Richard A. Greene & Associates, Inc. The area northerly and southerly from the numbered flags is densely vegetated and it is not feasible nor necessary to field survey these areas since they are further away from the project area than the nearest field surveyed numbered flags. The topography in the project area down to the numbered flags is accurate and based on a field survey completed by Richard A. Greene & Associates, Inc.

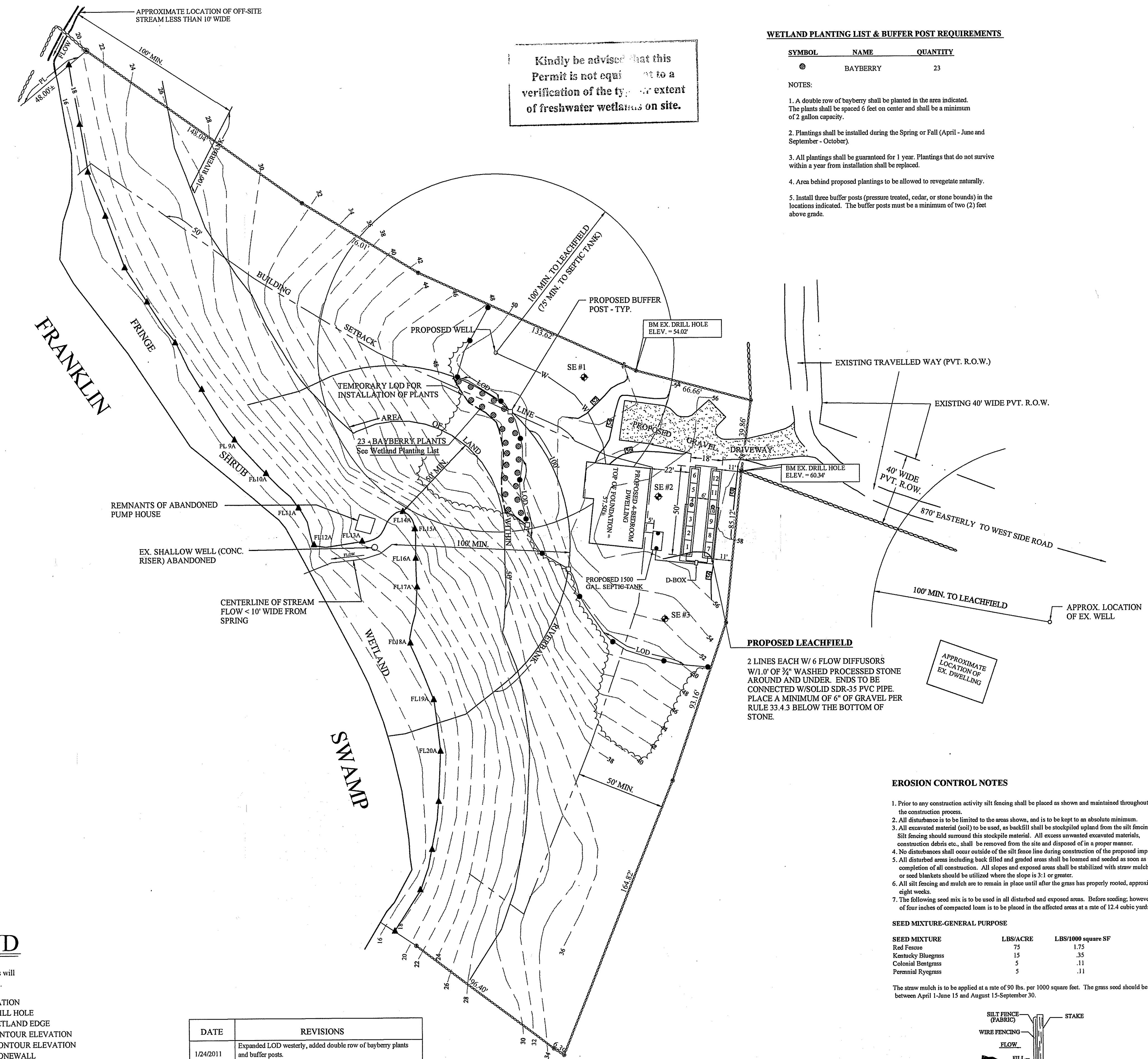
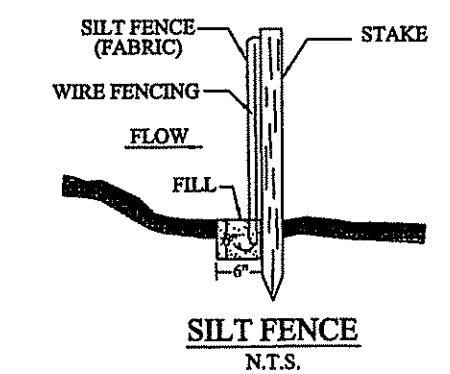
EROSION CONTROL NOTES

1. Prior to any construction activity silt fencing shall be placed as shown and maintained throughout the construction process.
2. All disturbance is to be limited to the areas shown, and is to be kept to an absolute minimum.
3. All excavated material (soil) to be used, as backfill shall be stockpiled upland from the silt fencing. Silt fencing should surround this stockpile material. All excess unwanted excavated materials, construction debris etc., shall be removed from the site and disposed of in a proper manner.
4. No disturbances shall occur outside of the silt fence line during construction of the proposed improvements.
5. All disturbed areas including back filled and graded areas shall be loamed and seeded as soon as possible upon completion of all construction. All slopes and exposed areas shall be stabilized with straw mulch. Jute netting or seed blankets should be utilized where the slope is 3:1 or greater.
6. All silt fencing and mulch are to remain in place until after the grass has properly rooted, approximately six to eight weeks.
7. The following seed mix is to be used in all disturbed and exposed areas. Before seeding; however, a minimum of four inches of compacted loam is to be placed in the affected areas at a rate of 12.4 cubic yards per 1000 square feet.

SEED MIXTURE-GENERAL PURPOSE

SEED MIXTURE	LBS/ACRE	LBS/1000 square SF
Red Fescue	75	1.75
Kentucky Bluegrass	15	.35
Colonial Bentgrass	5	.11
Perennial Ryegrass	5	.11

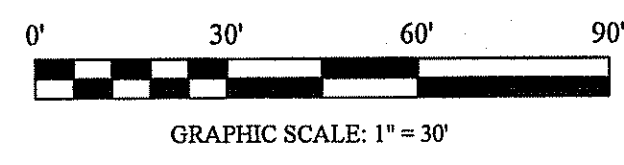
The straw mulch is to be applied at a rate of 90 lbs. per 1000 square feet. The grass seed should be planted between April 1-June 15 and August 15-September 30.



LEGEND

- These standard symbols will be found in the drawing.
- ◆ SOIL EVALUATION
 - EXISTING DRILL HOLE
 - FLAGGED WETLAND EDGE
 - EXISTING CONTOUR ELEVATION
 - PROPOSED CONTOUR ELEVATION
 - EXISTING STONEWALL ELEVATION
 - PROPOSED WATERLINE
 - SILT FENCE (LOD)
 - TEMPORARY LOD FOR PLANTINGS
 - EDGE OF BRUSH/TREE LINE
 - PROPOSED BUFFER POST

DATE	REVISIONS
1/24/2011	Expanded LOD westerly, added double row of bayberry plants and buffer posts.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED FEB 01 2011 FILE # 10-0222
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Kathy L. Freeman

PLAN SHOWING ON-SITE WASTEWATER TREATMENT SYSTEM AND SITE IMPROVEMENTS
PREPARED FOR:
JASON PAGE
Office of Water Resources

RICHARD A. GREENE
PROFESSIONAL LAND SURVEYOR

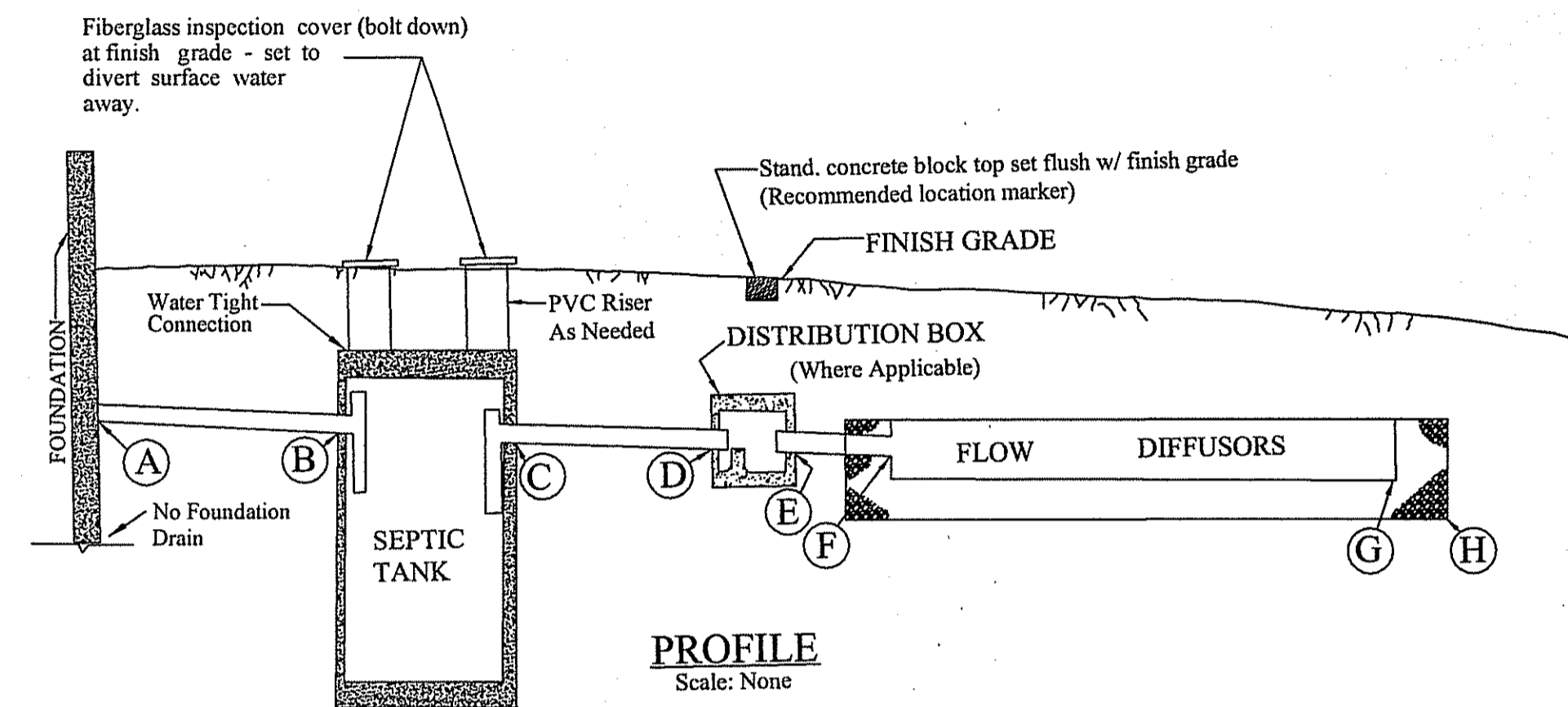
ASSESSOR'S PLAT 15, LOT 39-4
OFF WEST SIDE ROAD
NEW SHOREHAM, RHODE ISLAND
SCALE: 1" = 30' DATE: OCTOBER 2010
RICHARD A. GREENE & ASSOCIATES, INC.
220 RICHMOND TOWNHOUSE ROAD
CAROLINA, RI 02812
TEL: (401) 364-9405
FAX: (401) 364-9403
SHEET 1 OF 2

**SEPTIC SYSTEM
ELEVATION SCHEDULE (FT.)**

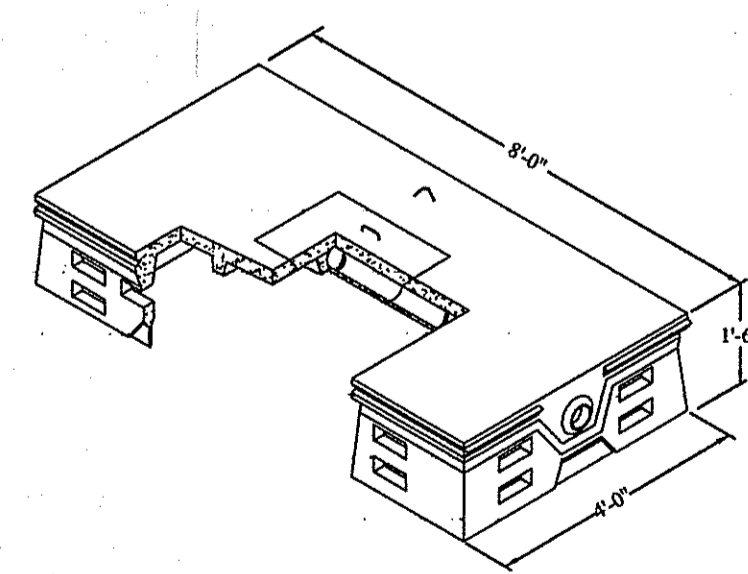
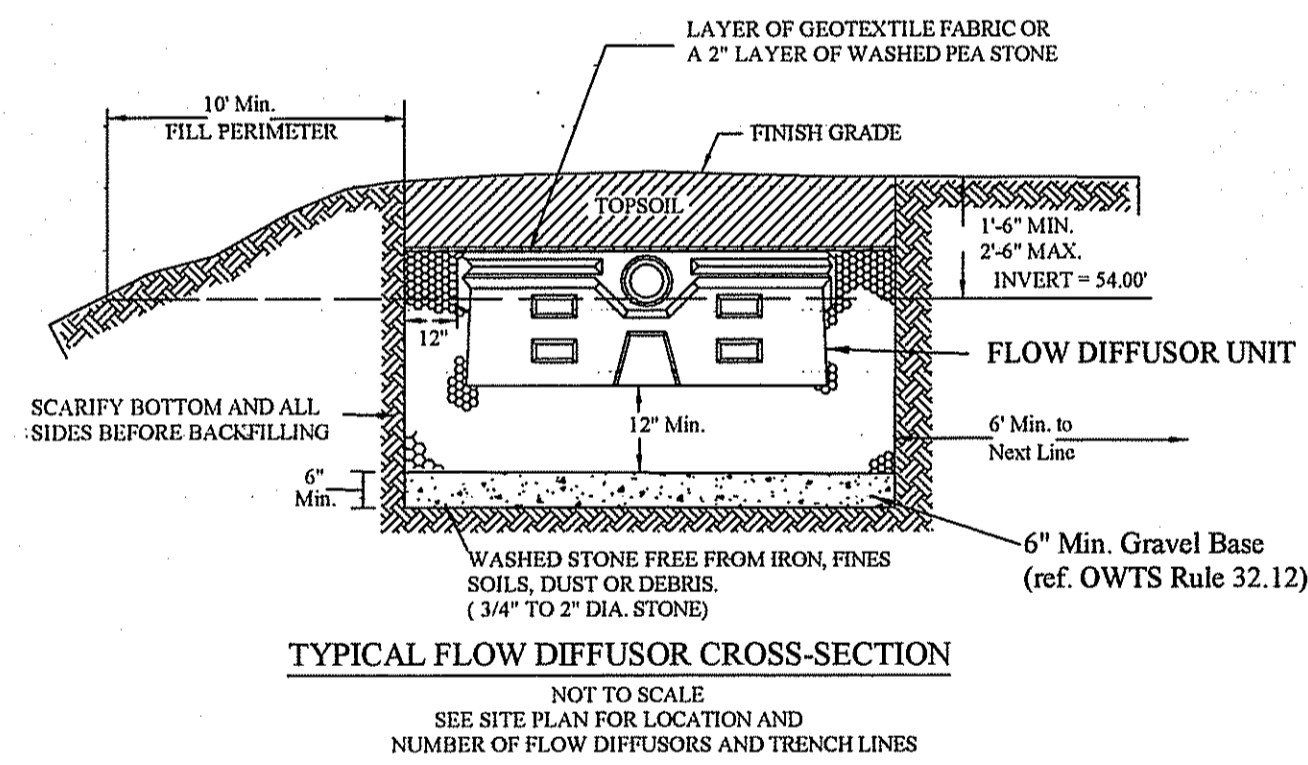
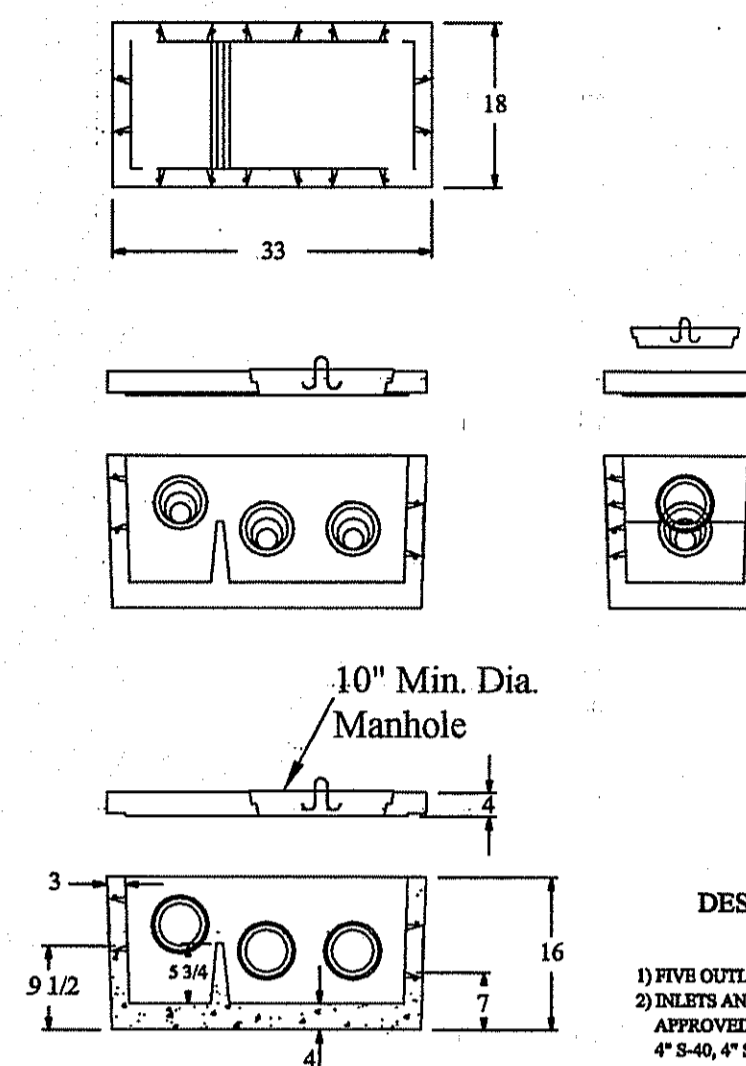
- A. DWELLING INVERT = 55.00
- B. SEPTIC TANK INV. IN = 54.85
- C. SEPTIC TANK INV. OUT = 54.60
- D. DISTRIBUTION BOX INV. IN = 54.17
- E. DISTRIBUTION BOX INV. OUT = 54.00
- F. FLOW DIFFUSER INVERT = 54.00
- G. BOTTOM OF FLOW DIFFUSER = 53.00
- H. BOTTOM OF STONE = 52.00

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

SE 1 Grade El. = 50.57 - 9.50' to GWT = 41.07' GWT ELEVATION
SE 2 Grade El. = 57.0' - 9.0' to GWT = 48.0' GWT ELEVATION
SE 3 Grade El. = 52.25 - 4.0' to GWT = 48.25' GWT ELEVATION
DESIGN BASED ON GWT ELEVATION OF 48.0' (SE 2)



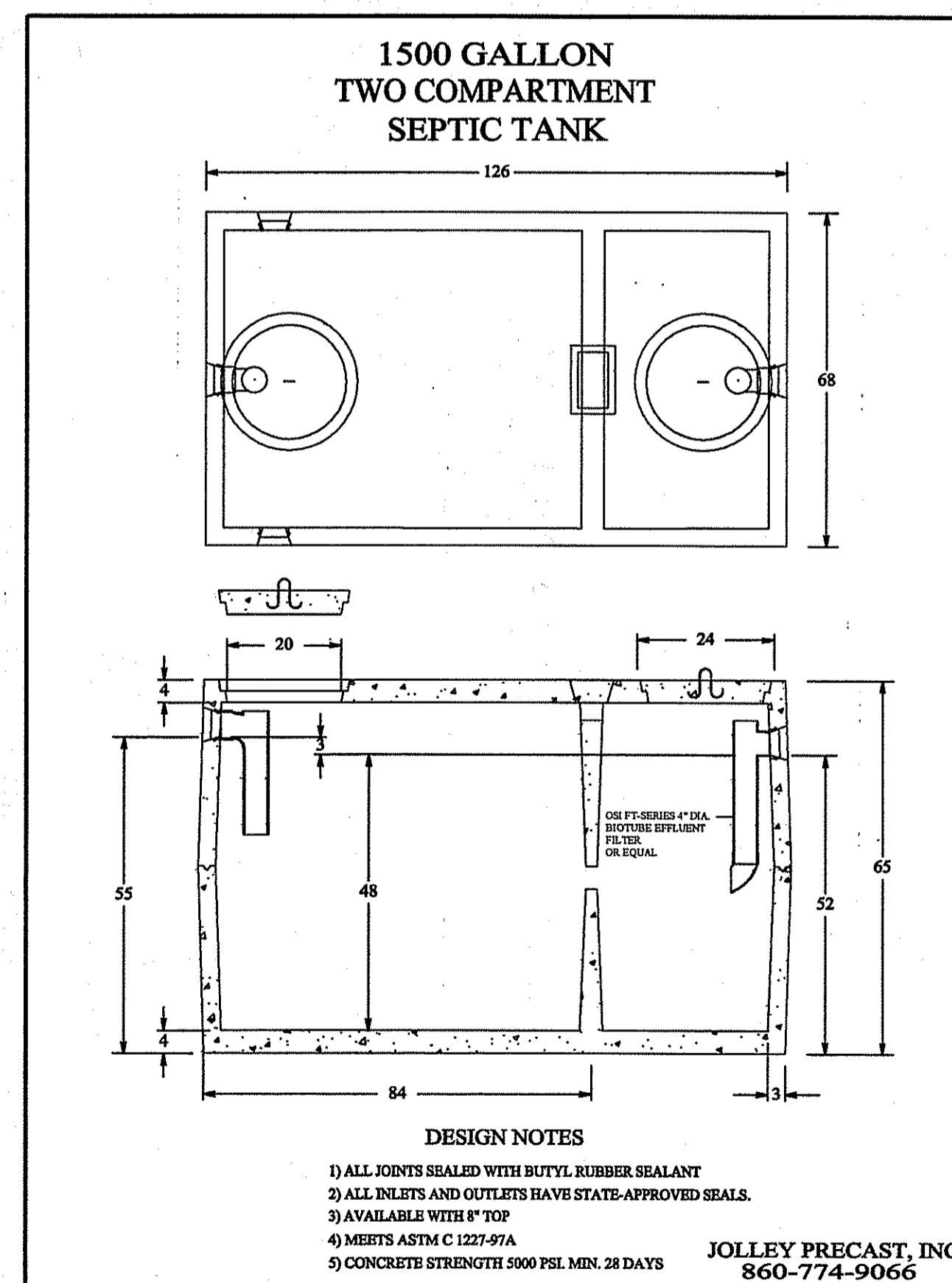
**8 HOLE "D" BOX WITH BAFFLE
DB5-3
H20**



FLOW DIFFUSER SPECIFICATIONS

- UNITS 1, 2, 3, 5, 6, 7, 8, 9, 11 & 12 - FD 4 x 8 - L
- UNITS 4 & 10 - FD 4 x 8 - D (Side Inlets)

* All unused inlets to be sealed watertight with grout.



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ON-SITE WASTEWATER TREATMENT SYSTEM
CONSTRUCTION NOTES AND DETAILS
PREPARED FOR:
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OFF WEST SIDE ROAD
NEW SHOREHAM, RHODE ISLAND
SCALE: NONE DATE: OCTOBER 2010
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