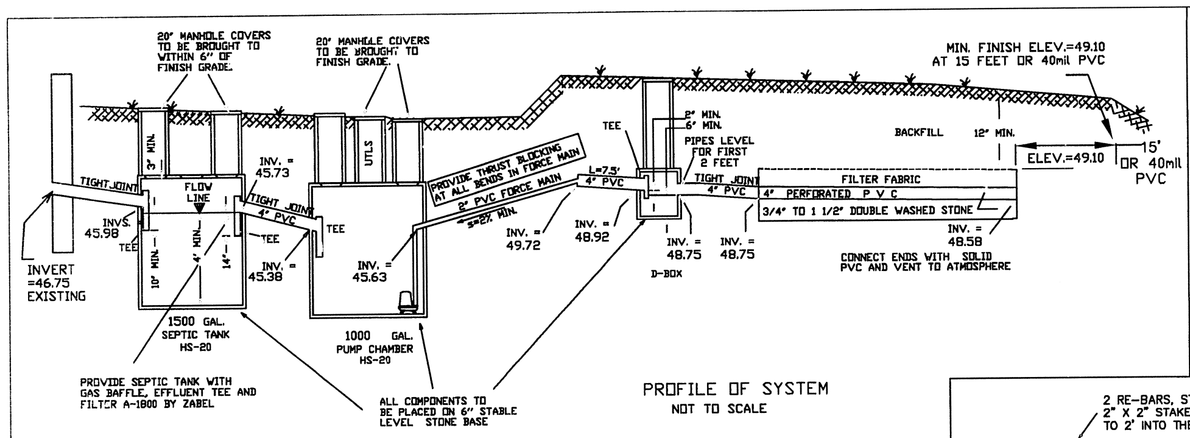
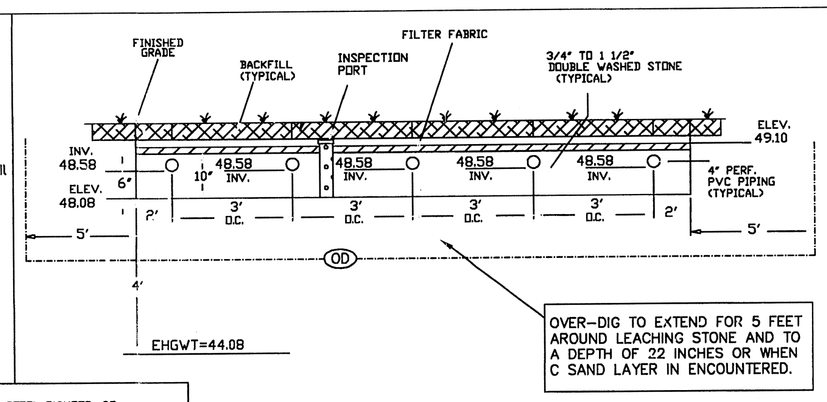


PROFILE OF SYSTEM

NOT TO SCALE

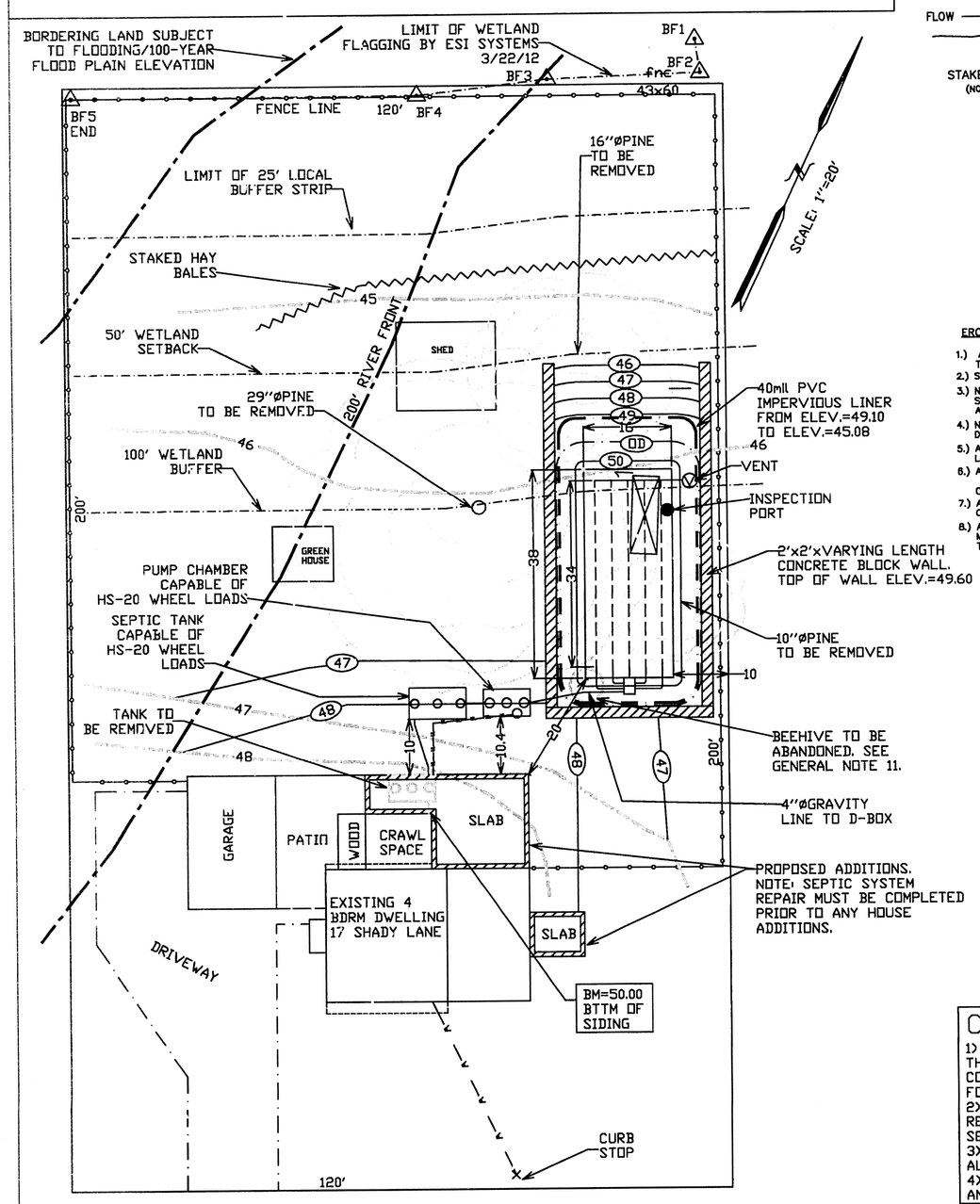


END SECTION THROUGH LEACH FIELD

NOT TO SCALE

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL CONFORM TO THE TOWN OF SEEKONK BOARD OF HEALTH RULES AND REGULATIONS AND TITLE 5, THE STATE ENVIRONMENTAL CODE.
2. THIS PLAN IS TO BE USED FOR THE CONSTRUCTION OF THE DESIGN DISPOSAL SYSTEM. THIS PLAN DOES NOT REPRESENT ACTUAL AS BUILT CONDITIONS UNLESS OTHERWISE NOTED.
3. THE PROPOSED SYSTEM SHOWN HEREON IS NOT DESIGNED FOR THE USE OF A GARBAGE DISPOSAL AND SAID USE IS NOT ALLOWED.
4. THE SEPTIC TANK SHOULD BE PUMPED OUT EVERY ONE TO TWO YEARS DEPENDING ON USE.
5. ALL BASE AGGREGATE FOR LEACHING STRUCTURES SHALL CONSIST OF 3/4" TO 1 ½"DOUBLE WASHED STONE FREE OF IRON, FINES, AND DUST IN PLACE.
6. TIGHT JOINT PIPING TO CONSIST OF POLYVINYL CHLORIDE PIPE (PVC) SCHEDULE 40, UNLESS OTHERWISE NOTED.
7. NO PERMANENT STRUCTURE MAY BE CONSTRUCTED OVER THE SEPTIC SYSTEM AREA.
8. BEFORE BEGINNING ANY EXCAVATION OR DEMOLITION CALL "DIG SAFE" AT 1-888-344-7233 TO NOTIFY MEMBER UTILITIES.
9. THE GRADE ABOVE AND ADJACENT TO THE LEACHING FACILITY SHALL BE SLOPED TO PREVENT THE ACCUMULATION OF SURFACE DRAINAGE (2% MINIMUM SLOPE).
10. THE OVER-DIG AREA, (OD) IF SHOWN HEREON IS TO BE STRIPPED OF ALL TREES, BRUSH, STUMPS, TOPSOIL, PEAT, OR OTHER IMPERVIOUS MATERIALS. THE (OD) AREA EXTENDS 5 FEET HORIZONTALLY AROUND THE PROPOSED SYSTEM AND TO THE DEPTH SPECIFIED. THE REPLACEMENT MATERIAL SHALL MEET SPECIFICATIONS OF 310 CMR 15.255 OF THE STATE ENVIRONMENTAL CODE.
11. ANY SOILS ASSOCIATED WITH EXISTING FAILED LEACHING FACILITIES SHALL BE REMOVED AND REPLACED WITH MATERIAL MEETING SPECIFICATIONS OF 310 CMR 15.255 OFTHE STATE ENVIRONMENTAL CODE.
12. THERE SHALL BE NO BACK FILLING PRIOR TO ENGINEERING AND BOARD OF HEALTH INSPECTION AND APPROVAL.
13. INSPECTION PORT TO BE 4"ØPERFORATED WITH SCREW TYPE CAP INSTALLED TO WITHIN 3"OF FINAL GRADE.
14. ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC MARKING TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED
15. THE FINISHED GRADE OVER SEPTIC SYSTEM SHALL BE GRADED, LOAMED, AND SEEDED.

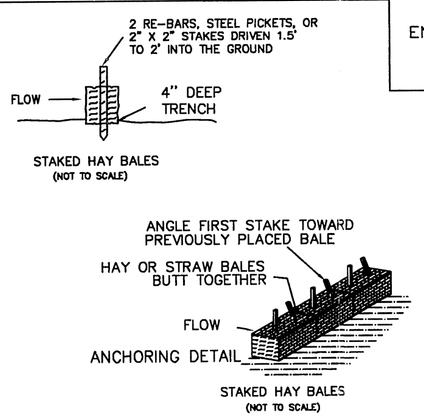


SHADY LANE

VARIANCE REQUEST:
1. 310 CMR 15.404 (2) (b) "A MINIMUM OF FIVE FEET OF SEPARATION BETWEEN THE BOTTOM OF THE SOIL ABSORPTION SYSTEM AND THE HIGH GROUNDWATER ELEVATION SHALL BE PROVIDED, USING FILL IF NECESSARY. THE LOCAL APPROVING AUTHORITY MAY ALLOW A FOUR FOOT SEPARATION ONLY IN FULL COMPLIANCE WITH 310 CMR 15.405

WE ARE REQUESTING A VARIANCE FROM TITLE 5 OF THE STATE SANITARY CODE TO REDUCE THE MINIMUM GROUNDWATER SEPARATION FROM 5 FEET TO 4 FEET AS PER 310 CMR 15.404, APPROVALS FOR UPGRADES TO MAXIMUM FEASIBLE COMPLIANCE.

NOTE: THIS PLAN DOES NOT REPRESENT A PROPERTY BOUNDARY SURVEY.



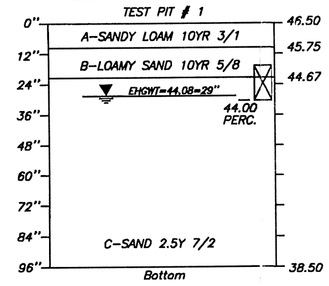
EROSION & SEDIMENTATION CONTROL

1.) ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF EARTHWORK.
2.) STAKED HAY BALES TO BE INSTALLED IN ACCORDANCE WITH THE DETAILS PROVIDED.
3.) NO WORK IS TO OCCUR ON THE WETLAND SIDE OF THE PERIMETER EROSION AND SEDIMENTATION CONTROLS OTHER THAN THAT SPECIFIED FOR MITIGATION. ALL PERIMETER CONTROLS SERVE AS THE PROJECT LIMIT OF DISTURBANCE.
4.) NO STONES, BRUSH, CONSTRUCTION DEBRIS, LITTER, OR OTHER MATERIALS ARE TO BE DEPOSITED ON THE WETLAND SIDE OF THE EROSION AND SEDIMENTATION CONTROLS.
5.) ALL DISTURBED SOILS NOT DESIGNATED FOR OTHER SURFACE TREATMENT ARE TO BE LOAMED AND SEEDED IMMEDIATELY FOLLOWING FINAL GRADING.
6.) ALL EXPOSED SOILS SHALL BE PROTECTED WITH STRAW MULCH (OR EQUIVALENT) IMMEDIATELY AFTER SEEDING. OVER SEEDING SHALL BE CONDUCTED IN THE SPRING AS NEEDED.
7.) APPROPRIATE PRECAUTIONS SHOULD BE TAKEN TO PREVENT THE TRANSPORT OF SOIL OFF SITE FROM CONSTRUCTION EQUIPMENT.
8.) ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE PROPERLY MAINTAINED AND MUST REMAIN IN PLACE UNTIL THE SOILS HAVE BEEN STABILIZED TO THE SATISFACTION OF THE SEEKONK CONSERVATION COMMISSION.

TEST PIT LOG

NOT TO SCALE

Date Excavated: 11/17/11
Logged by: DEAN MONSEES
Observed by: BETH HALLAL
Board of Health: SEEKONK
Geologic Material: OUTWASH
Landform: OUTWASH PLAIN
DESIGN PERC. RATE: <2mpi



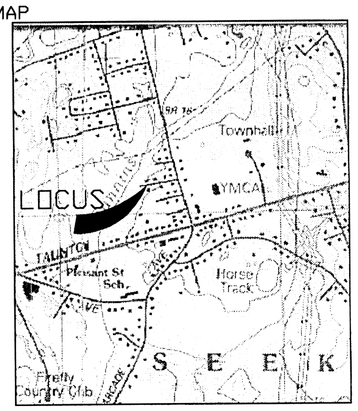
CONSTRUCTION NOTES:

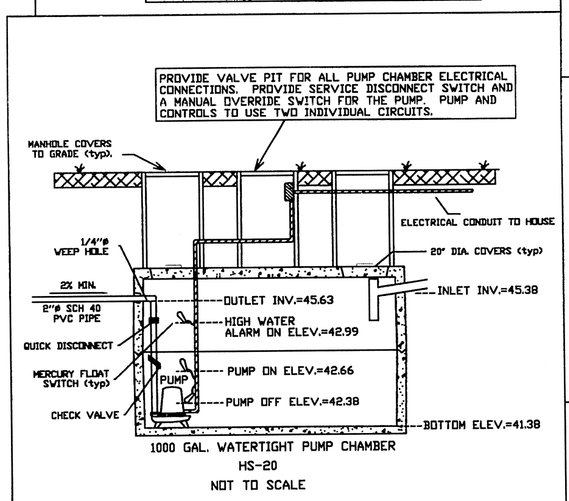
1) OSD systems associates, Inc. TO BE NOTIFIED BY THE INSTALLING CONTRACTOR AT THE START OF CONSTRUCTION AND TO BE GIVEN 24 HOUR NOTICE FOR AS-BUILT.
2) GARBAGE DISPOSAL, IF PRESENT, IS TO BE REMOVED AS PART OF THIS SEPTIC SYSTEM REPAIR. SEE GENERAL NOTE #3.
3) NO INCREASE IN FLOW BEYOND 4 BEDROOMS IS ALLOWED
4) SEPTIC SYSTEM MUST BE INSTALLED PRIOR TO ANY WORK ON HOUSE ADDITIONS.

THE BUILDING SEWER OUTLET(S) SHOWN ON THIS PLAN IS (ARE) BASED ON BEST AVAILABLE INFORMATION AT THE TIME OF PLAN DESIGN AND APPROVAL. ANY DESIGN AND/OR CONSTRUCTION COSTS ASSOCIATED WITH ADDITIONAL OUTLETS LATER REVEALED BECOME THE RESPONSIBILITY OF THE OWNER(S).

I CERTIFY THAT I HAVE CONTACTED THE SEEKONK WATER DISTRICT AND THE WATER SERVICE CURB STOP TO LOT#356 IS SHOWN CORRECTLY. THE WATER SERVICE SHOWN ON THIS PLAN IS IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE SEEKONK WATER DISTRICT.

LOCUS MAP



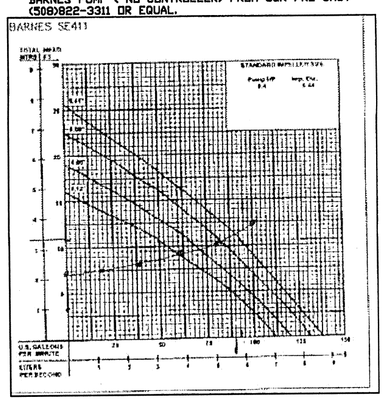


NOT TO SCALE

CROSS SECTION OF PUMP CHAMBER

SUBMERSIBLE SEWAGE PUMP & PUMP CHAMBER

SPECIFICATIONS:
FURNISH AND INSTALL ONE PUMP STATION ITEM NO. PC1000P4W-1000 GALLON PC SIMPLEX SYSTEM WITH SE411 BARNES PUMP (NO CONTROLLER) FROM J&R PRE CAST (508)822-3311 OR EQUAL.



DESIGN CALCULATIONS

FLOW: SIZE FOR 4 BEDROOMS
(4bdrm)(110gpd/bdrm) = 440 gpd 880 PEAK

SEPTIC TANK: HS-20
NEW 1500 GAL TANK > 880

LEACHING FIELD:
RATE = (1/.74) sf/gpd FOR PERC = (2mpi CLASS I
MINIMUM SIZE: (440gpd)(1/.74)sf/gpd) = 595 sf
USE LEACHING FIELD 16'x38'=608sf

PUMP CHAMBER: HS-20
CHAMBER CAPACITY: 1000 GAL
USE A 66.4 GAL DOSE +1.6 GAL
BACK FLOW=68 GAL TOTAL DOSE
DEPTH OF DOSE: 0.28'
RESERVE VOLUME REQUIRED=440GAL
DEPTH OF RESERVE VOLUME REQUIRED=1.84'

LEGEND

DEEP OBSERVATION HOLE	EXISTING SPOT GRADE 47x38
DISTRIBUTION BOX	EXISTING CONTOUR 46
SEPTIC TANK	PROPOSED CONTOUR 47
PUMP CHAMBER	PROPOSED SPOT GRADE 51xO
WETLAND FLAG/LINE BF3	WATER LINE
	UTILITY LINE

REVISIONS

DATE	DESCRIPTION
8/4/12	REMOVE WALL FROM 50' WETLAND SETBACK
7/10/12	SHOW BLSF/100yr-FLOOD PLAIN, 200' RIVER FRONT

SEWAGE DISPOSAL SYSTEM REPAIR PLAN

LOT NUMBERS: 356-358,381-383 PLAT NO.: 19
AREA OF LOT: 24,000sf

LOT ADDRESS: 17 SHADY LANE
IN
SEEKONK, MA 02771

PREPARED FOR:
KEITH RONDEAU
17 SHADY LANE
SEEKONK, MA 02771

SCALE: AS SHOWN
DATE: 4/1/12

DESIGNED BY: DRM
JOB NO: 12-109
FILE: 17SHADY.dwg

RECEIVED AUG 07 2012 SEEKONK CONSERVATION

RDA

OSD systems associates, Inc.
45 ASTRAL AVENUE
RIVERSIDE, R.I. 02915
(401) 465-6324
OSD