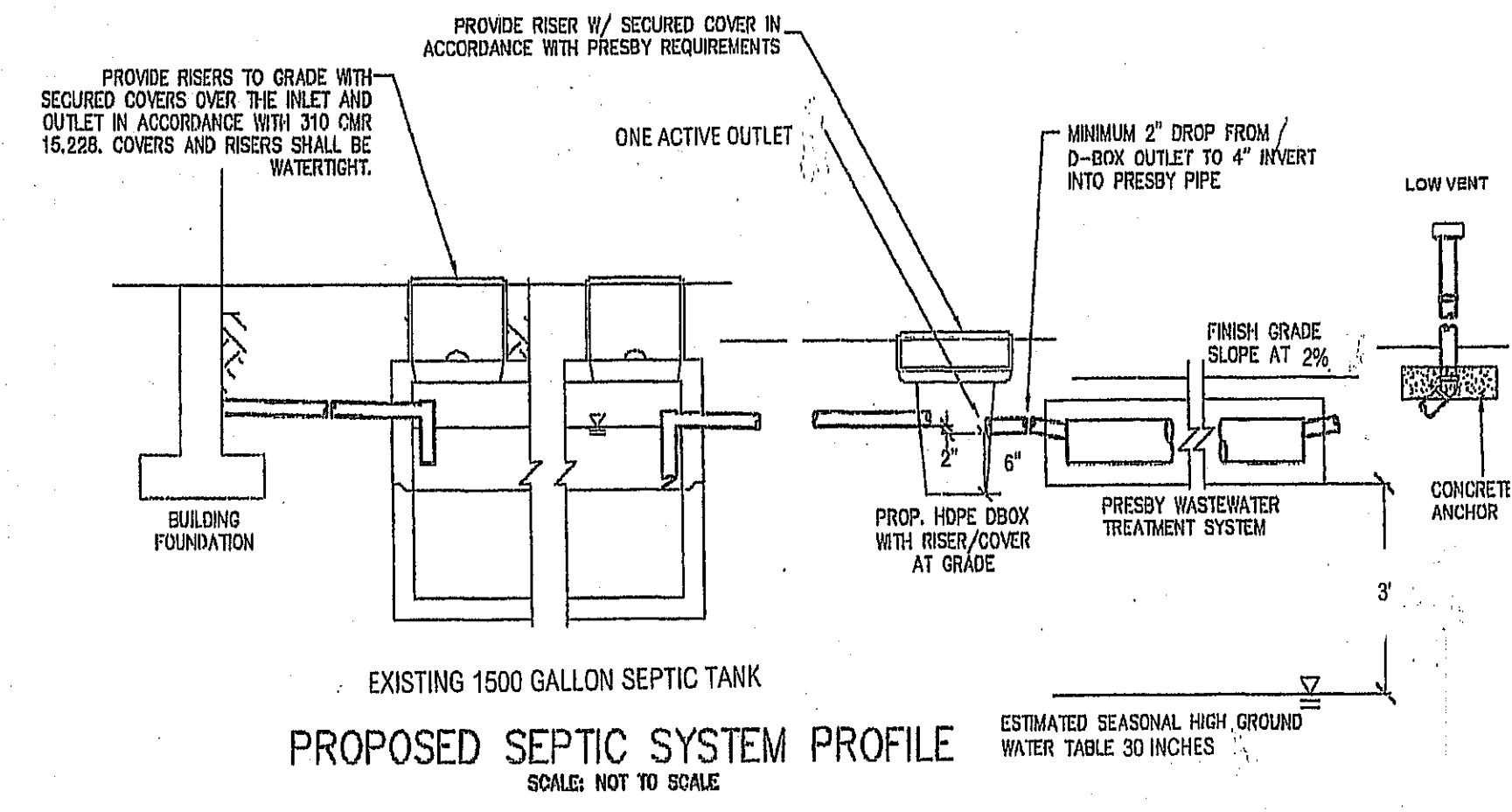
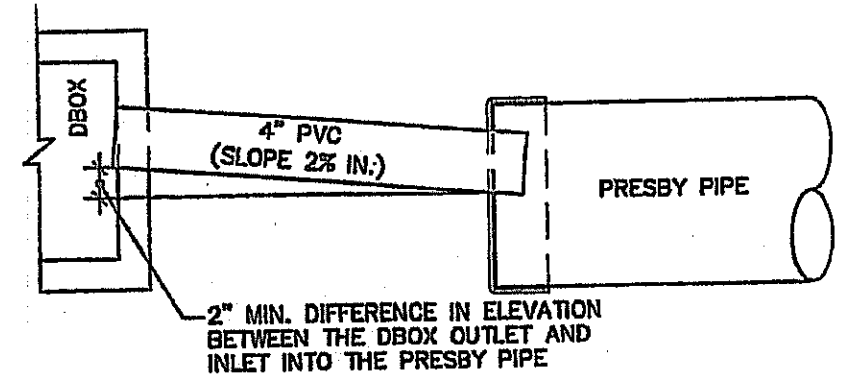
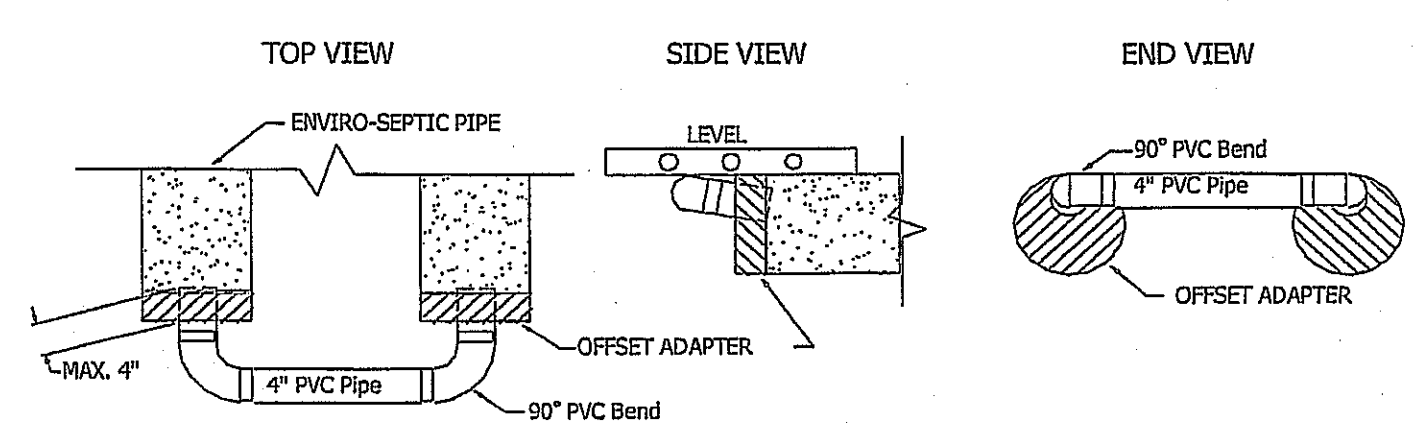


NOTES:
1. SEPTIC TANK AND DIST. BOX TO BE PLACED ON A LEVEL & STABLE BASE THAT HAS BEEN COMPACTED BY A VIBRATORY COMPACTOR OR EQUIV.
2. MIN. 4'-0" ELEV. REQUIRED BETWEEN BOTTOM OF LEACHING AREA AND MAX. G.W. ELEV.
3. THE DESIGN ELEVATIONS INDICATED WILL PROVIDE AT LEAST THESE MINIMUM SLOPES FOR THE LENGTHS INDICATED ON PLAN. IF ANY COMPONENT OF THE SYSTEM IS MOVED, THE DESIGN ELEVATIONS MAY NOT PROVIDE ADEQUATE SLOPE.
4. ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC TAPE OR A COMPARABLE MEANS IN ACCORDANCE WITH 310 CMR 15.221(12).

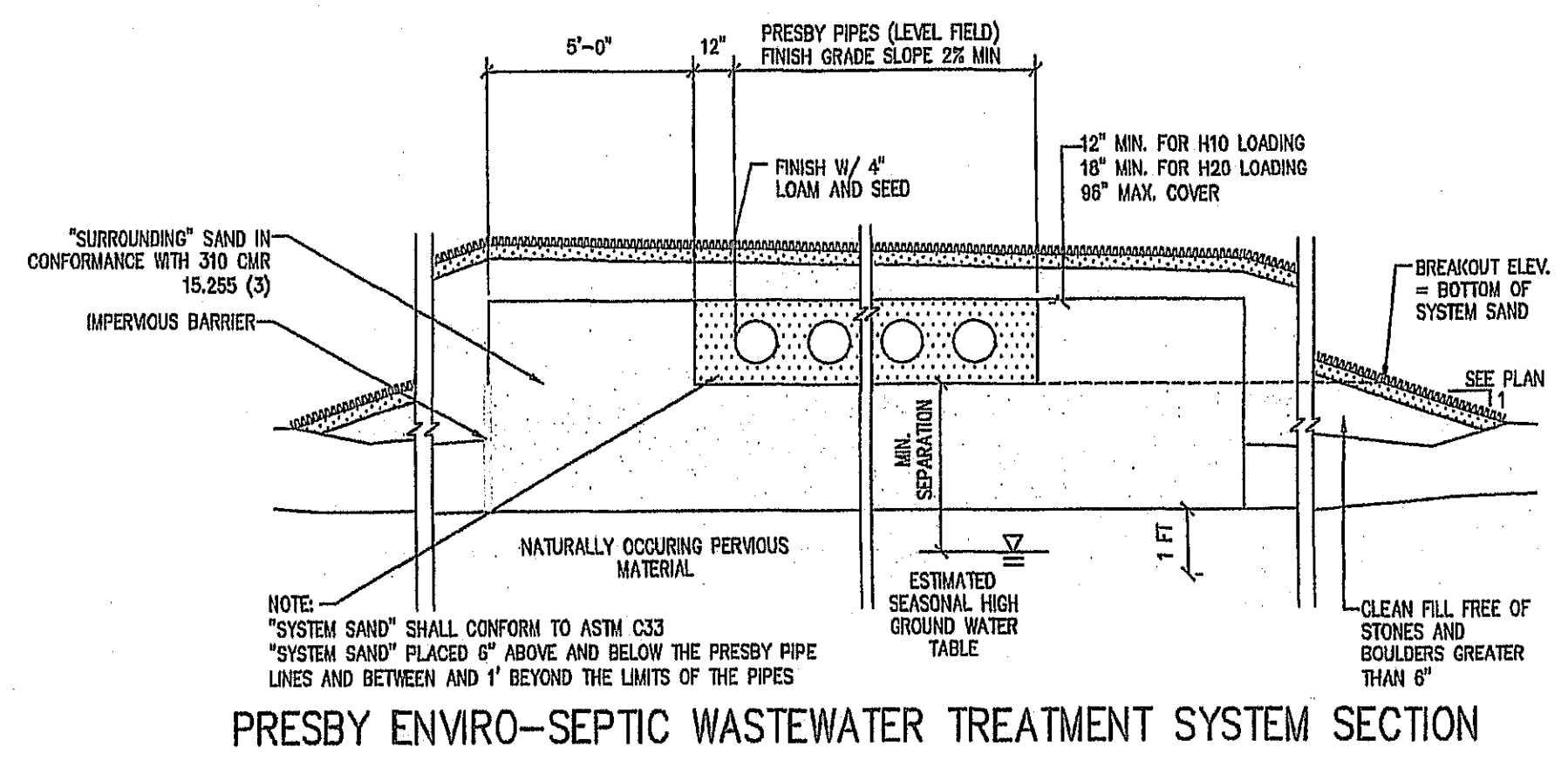


RAISED CONNECTION

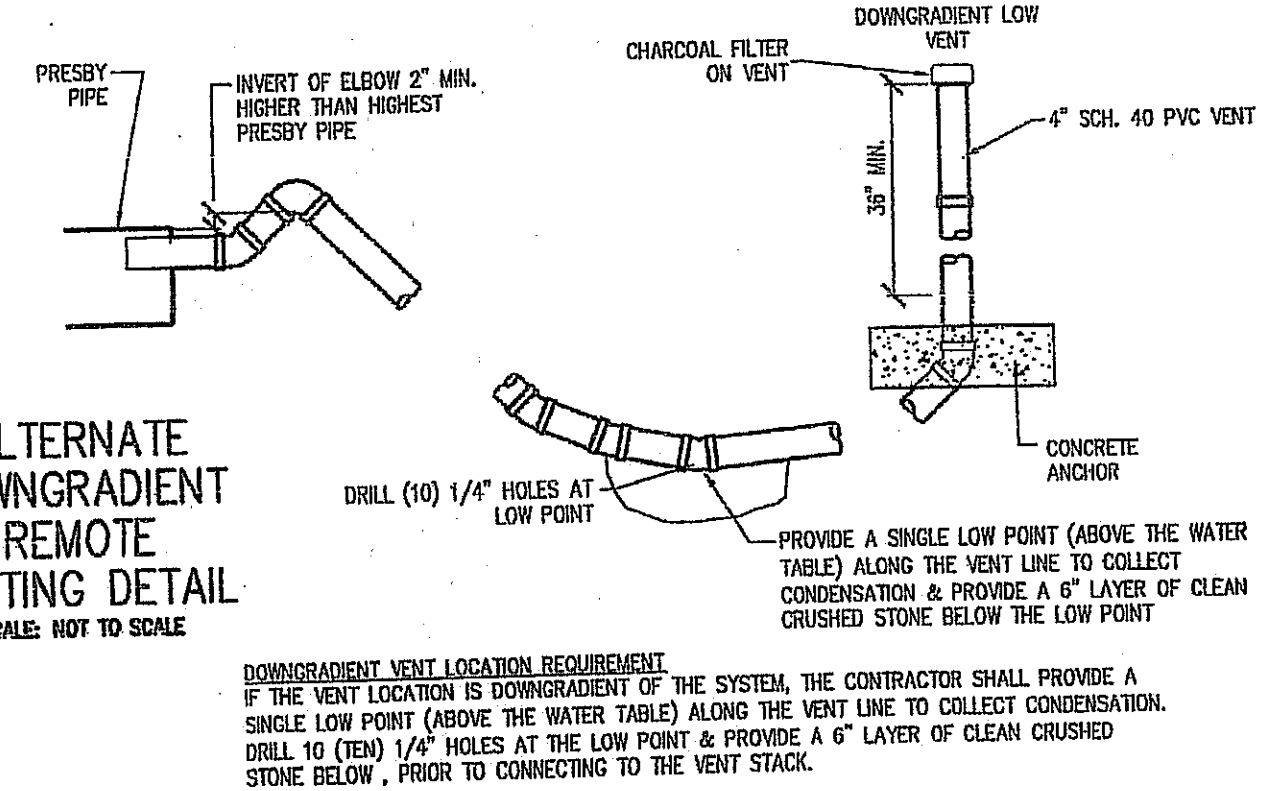


LOCAL UPGRADE REQUEST

14.405 (1)(b) REQUEST TO REDUCE THE REQUIRED 4 FOOT SEPARATION BETWEEN THE BOTTOM OF THE SOIL ABSORPTION SYSTEM AND THE HIGH GROUND WATER ELEVATION TO 3 FEET. (SOIL PERCOLATION RATE 20 MINUTES PER INCH).



ALTERNATE REMOTE VENTING DETAIL



PROP. OBSERVATION PORT SECTION

NOTE: PROPERTY LINES SHOWN ON THIS PLAN ARE APPROXIMATE AND ARE INTENDED FOR USE WITH THIS SEPTIC SYSTEM PLAN ONLY. ANY OTHER USE IS STRICTLY FORBIDDEN.

SCHEDULE OF ELEVATIONS

INVERT @ FOUNDATION	101.26' EXISTING
INVERT @ SEPTIC TANK IN	101.06' EXISTING
INVERT @ SEPTIC TANK OUT	101.80' EXISTING
INVERT @ D-BOX IN	101.25'
INVERT @ D-BOX OUT	101.08'
INVERT @ PRESBY PIPE	99.91'
BOTTOM OF PRESBY PIPE	99.33'
TOP OF PRESBY PIPE	100.33'
BOTTOM OF SYSTEM SAND	98.83'
DESIGN ELEVATION	98.33'
GROUNDWATER ELEVATION	95.83'
BREAKOUT ELEVATION	98.83'
FINISHED GRDE OVER S.A.S	101.33'

DESIGN INFORMATION

DESIGN FLOW = 440 G.P.D. 4 BEDROOMS X 110 G.P.D. = 440
DESIGN PERCOLATION RATE = 20 M.P.I. CLASS II SOIL
4 BEDROOM HOUSE @ 20 MPI REQUIRES 200 L.F. OF PRESBY SEPTIC PIPE
PROPOSED SYSTEM PROVIDES 5 LINES @ 40' TOTAL OF 200 L.F.
SAS SLOPE IS 0% REQUIRES MIN. 1.50' O.C. SPACING, SPACE LINES @ 2.25' O.C.

LEACHING AREA PROVIDED:
BED AREA REQUIRED FOR CONVENTIONAL SYSTEM IS 833 S.F.
40% REDUCTION FOR PRESBY ENVIRO SEPTIC SYSTEM IS 500 S.F.
PROPOSED SYSTEM BED IS 42' L X 12' W = 504 S.F. OF BED AREA
504 S.F IS > 500 S.F. O.K.

PROVIDE:

1 FIELD 42' L X 12' W = 504 S.F. OF C-33 SYSTEM SAND
5 LINES 40' LONG 2.25' O.C.
OUTSIDE EDGE OF PIPE #1 - #5 = 10'
PROVIDE 1 FOOT OF C-33 SAND AROUND EDGE OF PRESBY PIPE.
USE A SERIAL SYSTEM

GENERAL NOTES

ALL MODIFICATIONS TO THIS PLAN MUST BE PRE-APPROVED IN WRITING BY THE DESIGN ENGINEER AND THE LOCAL BOARD OF HEALTH.

THE INSTALLER SHALL HAVE A CURRENT, VALID INSTALLERS PERMIT ISSUED BY THE LOCAL BOARD OF HEALTH IN THE TOWN THE WORK IS PROPOSED.

ALL SYSTEM SAND SHALL BE WASHED AND THE INSTALLER SHALL PROVIDE TO THE BOH DOCUMENTATION OF A SIEVE ANALYSIS ON ALL SAND USED IN THE INSTALLATION OF THE SYSTEM.

ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF TITLE 5 AND THE LOCAL BOARD OF HEALTH.

THREE INSPECTIONS BY THE DESIGN ENGINEER AND THE LOCAL BOARD OF HEALTH SHALL BE REQUIRED TO OBTAIN A CERTIFICATE OF COMPLIANCE. 1. BOTTOM INSPECTION FOR THE REMOVAL OF TOP AND SUBSOIL, AND ANY UNSUITABLE MATERIAL. 2. COMPONENT INSPECTION INCLUDING BUT NOT LIMITED TO SEPTIC TANK, PUMP CHAMBER, DISTRIBUTION BOX, SOIL ABSORPTION SYSTEM, BUILDING SEWER AND ANY OTHER COMPONENTS USED IN THE CONSTRUCTION OF THE SYSTEM. 3. FINAL GRADING AND SOIL STABILIZATION INSPECTION.

HEAVY EQUIPMENT OR ANY OTHER MACHINERY THAT MAY CRUSH OR DISTURB THE SYSTEM SHALL NOT BE ALLOWED ON THE DISPOSAL SYSTEM.

THE SYSTEM WAS NOT DESIGNED TO FACILITATE A GARBAGE DISPOSAL.
TOPSOIL, SUBSOIL, FILL, OR ANY OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM THE AREA OF THE SOIL ABSORPTION SYSTEM AND FOR A DISTANCE OF 5 FEET ON ALL SIDES OF THE SAS.

WHERE A SOIL ABSORPTION SYSTEM IS TO BE CONSTRUCTED IN FILL, THE FILL SHALL BE PLACED IN 12 INCH LIFTS AND COMPACTED OR ALLOWED TO SETTLE FOR 1 YEAR. THE FILL SHALL CONFORM TO TITLE 5 SPECIFICATIONS AND THE REQUIREMENTS OF THE LOCAL BOARD OF HEALTH.

THE BASE FOR THE SEPTIC TANK, PUMP CHAMBER, AND DISTRIBUTION BOX SHALL BE PLACED ON A FIRM AND LEVEL BASE OF 6" OF CRUSHED STONE, AND SHALL BE COMPACTED BY A VIBRATORY TAMPER OR EQUAL.

ALL INTERIOR PLUMBING SHALL BE CONNECTED TO THE PROPOSED SEPTIC SYSTEM.

BACKWASH FROM WATER SOFTENING, CONDITIONING AND FILTRATION SYSTEMS SHALL NOT BE DISCHARGED TO THE SEPTIC SYSTEM.

THE FOUR CORNERS OF THE SYSTEM SHALL BE STAKED BY THE CONTRACTOR TO FACILITATE THE FINAL GRADING INSPECTION.

ALL WETLAND RESOURCES WITHIN 150 FEET OF THE SYSTEM ARE SHOWN ON THE PLAN.

ALL WELLS WITHIN 150 FEET OF THE SYSTEM ARE SHOWN OR NOTED ON THE PLAN.

ALL APPLICABLE STATE AND LOCAL PERMITS SHALL BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.

HYDROLIC CEMENT IS REQUIRED TO SEAL ALL CONNECTIONS TO THE TANK, PUMP CHAMBER AND DISTRIBUTION BOX.

PROPERTY LINES ARE BASED ON RECORDED DOCUMENTS AND FIELD OBSERVATIONS.

THE LOT DOES NOT LIE WITHIN A FLOOD PLAIN AS SHOWN ON FLOOD INSURANCE RATE MAPS.

IF FILL OVER THE D BOX IS GREATER THAN 9 INCHES A RISER MUST BE PROVIDED TO BRING THE D BOX WITHIN 6 INCHES OF GRADE.

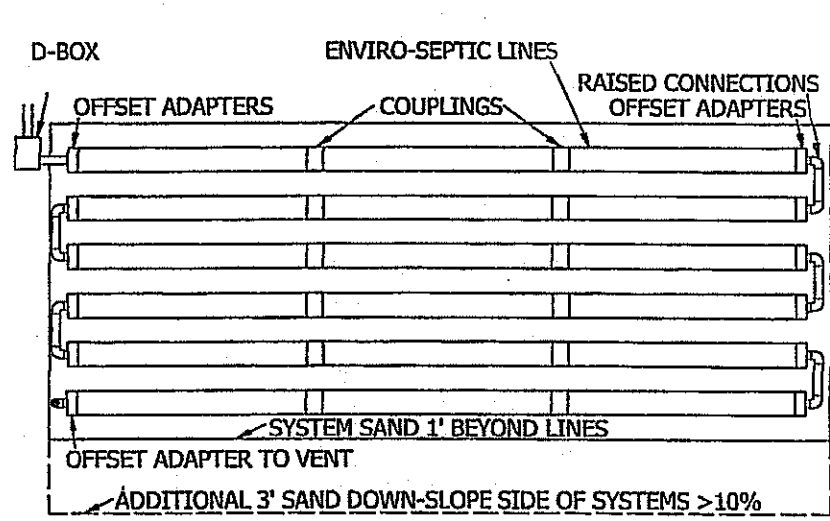
IT IS RECOMMENDED THAT THE SYSTEM BE PUMPED EVERY 2 YEARS AND A MAINTAINANCE INSPECTION IS PERFORMED ANNUALLY.

ALL COMPONENTS SHALL BE MARKED WITH MAGNETIC TAPE. THE TAPE SHALL BE OF PROPER RATING TO LOCATE COMPONENTS AT THE PROPOSED DEPTH.

THE CONTRACTOR SHALL INSTALL A MINIMUM OF ONE INSPECTION PORT IN THE SAS. THE PORT SHALL BE 4 INCH PERFERATED SCH.40 PIPE WITH A SCREW CAP. THE TOP OF THE PORT SHALL BE A MAXIMUM 3 INCHES BELOW GRADE AND EXTEND TO THE TOP OF THE SYSTEM SAND.

ALL SYSTEM PIPING SHALL BE SCHEDULE 40.

TYPICAL SERIAL SYSTEM



SOIL TESTING RESULTS

DATE OF TEST: 6/30/05
TEST PERFORMED BY: WILLIAM COYLE WITNESS: EARL BERNIER LEICESTER B.O.H.
PERC # 1- 12 MPI, PERC # 2- 20 MPI

SOIL LOGS

DEEP HOLE #1	ELEV. 98.00'	DEEP HOLE #2	ELEV. 96.22'
0-5 A SL 10 YR 3/3		0-7 A SL 10 YR 3/3	
5-26 Bw SL 10 YR 4/4		7-30 Bw SL 10 YR 4/4	
26-82 C SL 2.5 Y 5/3		30-80 C SL 2.5 Y 5/3	
REDOX @ 30"		REDOX @ 32"	

PREPARED FOR

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PERC TESTS
SOIL EVALUATIONS
SYSTEM DESIGN
WETLAND DELINEATION
ENVIRONMENTAL CONSULTING

PROPOSED SEPTIC SYSTEM REPAIR

I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION PURSUANT TO 310 CMR 15.017 TO CONDUCT SOIL EVALUATIONS AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSISTENT WITH THE REQUIRED TRAINING, EXPERTISE, AND EXPERIENCE DESCRIBED IN 310 CMR 15.017. I FURTHER CERTIFY THAT THE RESULTS OF MY SOIL EVALUATION, AS INDICATED ON THE ATTACHED SOIL EVALUATION FORM, ARE ACCURATE AND IN ACCORDANCE WITH 310 CMR 15.100 THROUGH 51.107.

5 HEMLOCK ST.
LEICESTER, MA
PLAN DATE
JUNE 17, 2021

