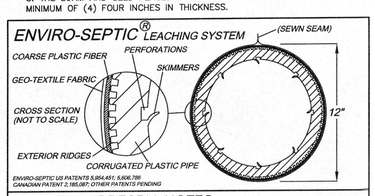
BACKFILL NOTES

1. THE SOIL PLACED AS BACKFILL OVER THE SOIL ABSORPTION SYSTEM SHALL BE A MINIMUM OF (9) NINE IINCHES, EXCLUDING TOPSOIL, PLACED IN LIFTS AND SUFFICIENTLY COMPACTED TO PREVENT DEPRESSION DUE TO SETTLING WHICH MAY INTERCEPT OR COLLECT SURFACE WATER RUNOFF ABOVE THE SYSTEM. BACKFILL MUST BE CLEAN AND FREE OF STONES AND BOULDERS GREATER THAN SIX INCHES IN SIZE. TAILINGS, CLAY OR SIMILAR MATERIALS ARE PROHIBITED..

2. FINAL COVER ABOVE THE SYSTEM SHALL BE STABILIZED AND GRADED TO REDUCE INFILTRATION OF SURFACE WATER AND MINIMIZE EROSION. FINISH GRADE SHALL HAVE A MINIMUM SLOPE OF 0.02 FEET PER FOOT.

3. THE LOAM AND SEED PLACED OVER THE BACKFILL SHALL BE A MINIMUM OF (4) FOUR INCHES IN THICKNESS.



PRESBY NOTES

1) SYSTEM TO BE INSTALLED IN ACCORDANCE WITH PRODUCT DESIGN AND INSTALLATION MANUAL, STATE AND LOCAL REGULATIONS. FOR PRODUCT INFORMATION OR THE NEAREST DEALER CONTACT PRESBY ENVIRONMENTAL, INC. ROUTE 117–P.O. BOX 617 SUGAR HILL, NH 03585 – PHONE 1–800–473–5298 WWW.PRESBYENVIRONMENTAL.COM
2) MINIMUM OF 6" OF MEDIUM TO COARSE SAND WITH LESS THAN 2% PASSING A # 200 SIEVE REQUIRED AROUND CIRCUMFERENCE OF ENVIRO–SEPTIC PIPES. (SEE DESIGN AND INSTALLATION MANUAL FOR COMPLETE SAND AND FILL SPECIFICATIONS.)
3) INSTALLER ADVISED TO CONTACT DIG SAFE PRIOR TO CONSTRUCTION.
4) DO NOT INSTALL SYSTEM ON FROZEN GROUND OR LEAVE SYSTEM UNCOVERED FOR EXTENDED PERIODS OF TIME.
5) NO DRAINS, HOT TUBS, SAUNAS, GARBAGE DISPOSALS ETC.. SHALL BE INCORPORATED INTO THIS SYSTEM UNLESS OTHERWISE SPECIFIED.
6)MAINTENANCE: RECOMMEND INSPECTION OF SEPTIC TANKS AT LEAST ONCE EVERY TWO YEARS AND CLEAN IF COMBINED THICKNESS OF SLUDGE AND SCUM EQUALS MORE THAN 1/4 OF THE LIQUID DEPTH INSIDE THE TANK.
7) THIS DOCUMENT IS FOR THE CONSTRUCTION OF THE EFFLUENT DISPOSAL SYSTEM SHOWN. ANYONE USING INFORMATION FROM THIS DOCUMENT FOR ANY OTHER PURPOSE DOES SO AT THEIR OWN RISK.
8) ONLY A CERTIFIED PRESBY INSTALLER MAY INSTALL THIS SYTEM. WRITTEN PROOF OF CERTIFICATION MUST BE PROVIDED TO THE LOCAL APPROVING AUTHORITY AND DESIGNER PRIOR TO INSTALLING THE SYSTEM.
9) PRIOR TO THE ISSUANCE OF A CERTIFICATE OF COMPLIANCE THE SYSTEM DESIGNER AND INSTALLER SHALL PROVIDE SEPARATE WRITTEN CERTIFICATIONS THAT THE SYSTEM HAS BEEN INSTALLED IN COMPLIANCE WITH THE D.E.P. APPROVAL LETTER FOR THE SYSTEM.
10) SYSTEM INSTALLER SHALL PROVIDE THE SYSTEM OWNER, DESIGNER, AND LOCAL APPROVING AUTHORITY WITH A LADING CERTIFYING THAT THE SAND MEETS ASTM–C33.
11) THE SYSTEM INSTALLER SHALL COMPLETE THE SYSTEM INSTALLATION FORM AND FORWARD IT TO COMPANY, DESIGNER, AND LOCAL APPROVING AUTHORITY.
12) PRESBY ENVIRONMENTAL, INC. WILL NOT BE RESPONSIBLE FOR SYSTEMS DESIGNED OR INSTALLED THAT DO NOT MEET THE STANDARDS ESTABLISHED BY THE PRESBY ENVIRONMENTAL PROCEDURES AND SPECIFICATIONS.

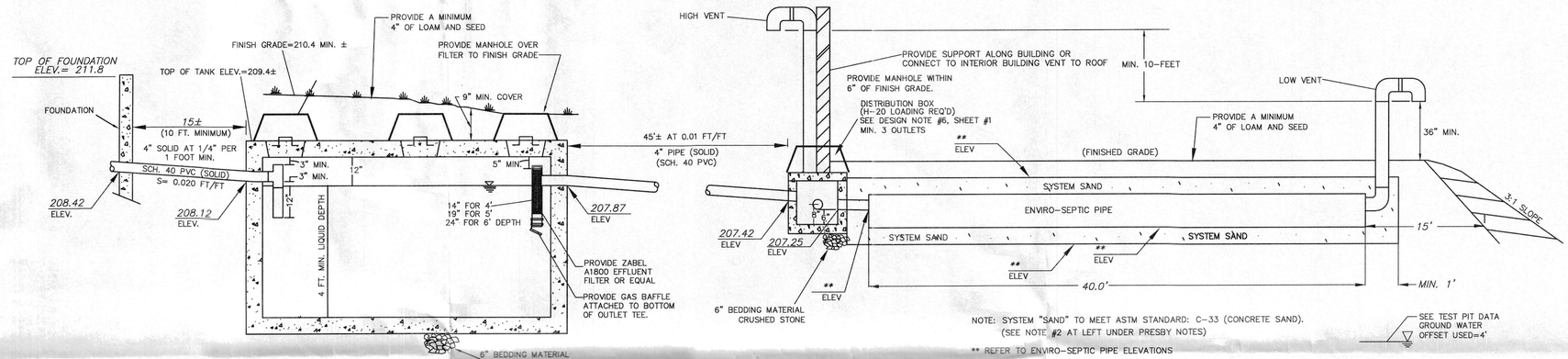
DESIGN CRITERIA

- NUMBER OF BEDROOMS: 4
- DESIGN FLOW: 4 BEDROOMS x 110 GPD = 440 GPD
- PERCOLATION RATE: 8 MIN./INCH
- ENVIRO–SEPTIC PIPE REQUIRED: 280 LINEAR FEET
- ENVIRO–SEPTIC PIPE PROVIDED: 280 LINEAR FEET
- SYSTEM SAND BED AREA REQUIRED: 667 SQ. FT. FOR A CONVENTIONAL PIPE AND AGGREGATE SYSTEM
- RESERVE AREA PROVDEID = 672 SQ. FT.
- SYSTEM SAND BED AREA PROVIDED: 504 SQ. FT. PRESBY AREA CAN BE NO LESS THAN 60% OF A CONVENTIONAL PIPE AND AGGREGATE SYSTEM. PRESBY MANUAL CALLS FOR MINIMUM SAND BED SIZE OF 400 SQ. FT. SYSTEM SAND BED PROVIDED = 504 SQ. FT.
- INSTALL 7 LINES OF PRESBY ENVIRO–SEPTIC PIPE: 40' LONG (1.5' O.C.)
- SEPTIC TANK VOLUME REQUIRED: 880 GALLONS
- SEPTIC TANK VOLUME PROVIDED: 1,500 GALLONS
- NO PRODUCT SUBSTITUTIONS PERMITTED WITHOUT PRIOR APPROVAL OF DESIGNER.

PROFILE OF SYSTEM

NOT TO SCALE

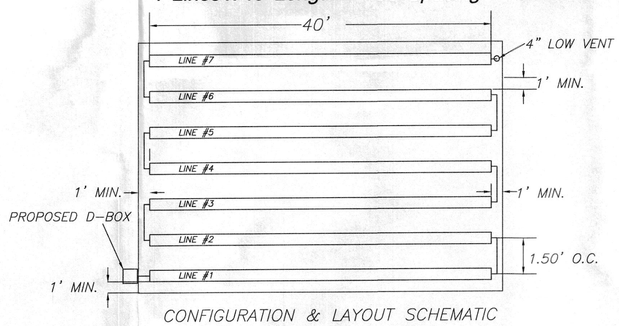
NOTE: ALL SYSTEM COMPONENTS SHALL BE MARKED WITH MAGNETIC TAPE OR A COMPARABLE MEANS IN ORDER TO LOCATE THEM ONCE BURIED. PER 310 CMR 15.221(12)



SEPTIC TANK

1,500 GALLON LIQUID CAPACITY

Sand Bed=42' x 12' = 504 sq. ft.
7 Lines x 40' Length x 1.50' Spacing



CONFIGURATION & LAYOUT SCHEMATIC

ENVIRO–SEPTIC PIPE ELEVATIONS							
LINE NUMBER	#1	#2	#3	#4	#5	#6	#7
TOP OF SAND	207.83	207.68	207.53	207.38	207.23	207.08	206.93
TOP OF PIPE	207.50	207.35	207.20	207.05	206.90	206.75	206.60
4" PVC INVERT	207.17	–	–	–	–	–	–
BOTTOM OF PIPE	206.50	206.35	206.20	206.05	205.90	205.75	205.60
BOTTOM OF SAND	206.00	205.85	205.70	205.55	205.40	205.25	205.10
EXISTING GRADE	210.00	210.4	210.8	211.0	211.8	212.0	207.00
GROUNDWATER	202.00	203.0	203.4	203.6	204.2	205.0	199.00

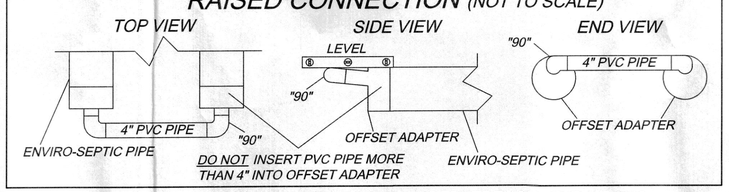
AS–BUILT ENVIRO–SEPTIC PIPE ELEVATIONS							
LINE NUMBER	#1	#2	#3	#4	#5	#6	#6
TOP OF SAND							
TOP OF PIPE							
4" PVC INVERT							
BOTTOM OF PIPE							
BOTTOM OF SAND							

NOTES:
- TOPSOIL AND ORGANIC MATERIAL TO BE REMOVED FROM DISPOSAL AREA PRIOR TO PLACING SAND OR FILL.
- FINAL GRADING TO SHED SURFACE WATER AWAY FROM SYSTEM COMPONENTS.
-MIN 10" / MAX 18" COVER OVER ENVIRO-SEPTIC PIPE

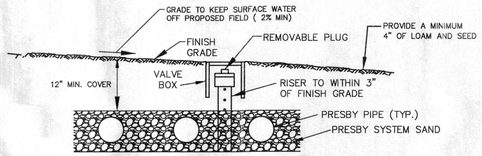
NOTE TO INSTALLER:

CONTACT DESIGNER PRIOR TO SYSTEM INSTALLATION. DESIGNER MUST BE ON SITE ONCE TOPSOIL AND ORGANIC MATERIAL IS REMOVED AND PRIOR TO PLACEMENT OF ANY SAND OR FILL. DESIGNER MAY BE PRESENT, AT HIS OPTION WHILE FILL IS PLACED AND BEFORE ENVIRO-SEPTIC PIPE IS INSTALLED.

RAISED CONNECTION (NOT TO SCALE)



**NOTE: SEE ELEVATIONS TABLE FOR STEPPED TRENCH ELEVATIONS.*

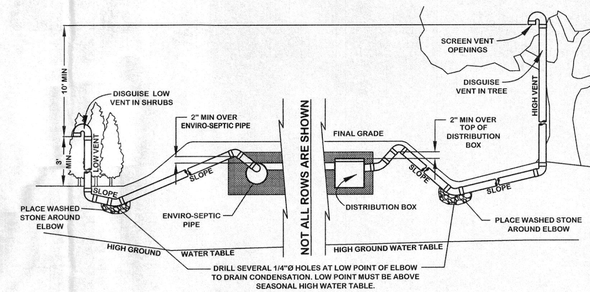


S.A.S. INSPECTION PORT DETAIL

NO SCALE

NOTES:

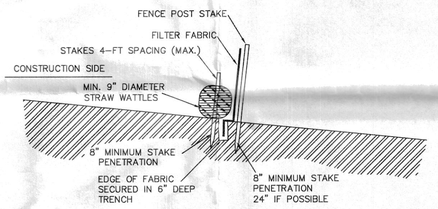
1. PER 310 CMR 15.240(13), AN INSPECTION PORT IS REQUIRED TO BE INSTALLED AS PART OF A NEW S.A.S.
2. INSPECTION PORT SHALL CONSIST OF A PERFORATED 4" PIPE PLACED VERTICALLY DOWN INTO THE SEPTIC SAND TO THE NATURALLY OCCURRING SOIL OR SAND FILL BELOW THE SEPTIC SAND.
3. THE PIPE SHALL BE CAPPED WITH A SCREW TYPE CAP AND ACCESSIBLE TO WITHIN 3" OF FINISH GRADE.
4. IF PRESBY SYSTEM IS USED, INSPECTION PORT TO BE PLACED IN MIDDLE OF PRESBY SYSTEM BETWEEN LATERALS.
5. VALVE BOX IS OPTIONAL.
6. THE INSPECTION PORT PIPE SHALL BE WRAPPED IN GEOTEXTILE FABRIC.



REMOTE VENTING

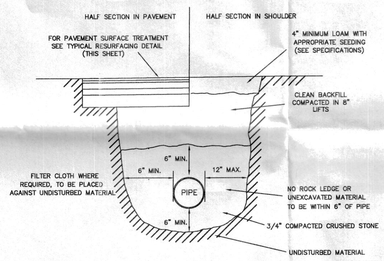
(NOT TO SCALE)

NOTE: THE HIGH VENT CAN BE THROUGH THE ROOF VENT. IF VENTING THROUGH THE ROOF IN NOT ABLE TO BE ACHIEVED REMOTE HIGH VENT IS REQUIRED



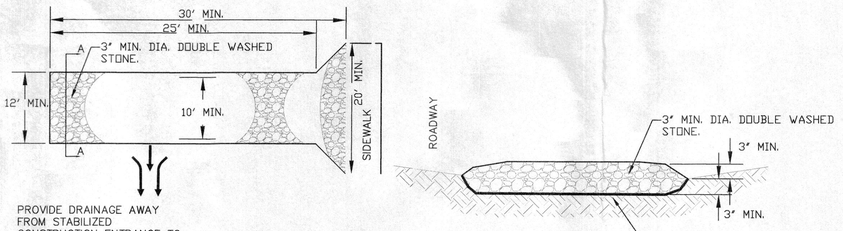
EROSION CONTROL BARRIER

NO SCALE



TYPICAL SEWER/DRAIN TRENCH

NO SCALE



TEMPORARY CONSTRUCTION ENTRANCE

NO SCALE

REV.	DATE	DESCRIPTION	BY	CHK.
DRAWING ISSUE STATUS				

HALEY WARD
ENGINEERING | ENVIRONMENTAL | SURVEYING
510 MECHANIC STREET
LEOMINSTER, MASSACHUSETTS
978.537.5296
WWW.HALEYWARD.COM

PROJECT
LOTY 2B-A
90A WAVERLY STREET
ASHLAND, MASSACHUSETTS 01721

PREPARED FOR
VICTOR MOURAO
8 JOANNE DRIVE
ASHLAND, MA 01721

TITLE
PROPOSED SOIL ABSORPTION SYSTEM

COMMONWEALTH OF MASSACHUSETTS
BRIAN F. MILISCI
CIVIL
No. 38102
REGISTERED PROFESSIONAL ENGINEER

DATE	SCALE
OCTOBER 2, 2024	1" = 20'
DRAWN BY: CMB	DESIGNED BY: CMB	CHECKED BY: AMC
PROJECT NO.: 3010714.002	COMPS NO.	PLAN NO.
DRAWING NO.	REV.
2 OF 2	