

PRESBY ENVIRO-SEPTIC® INDIANA WORKSHEET© 10/10/08

PRESBY ENVIRONMENTAL, INC.

143 AIRPORT ROAD
WHITEFIELD, NH 03598
(800) 473-5298

Date: _____

Design and install according to the Enviro-Septic® Wastewater Treatment Indiana Design and Installation Manual for Residential Systems

SOIL CLASSES A-D - SYSTEM SIZING

- a. **Soil Class:** _____ (Soil Class A installations require ISDH approval)
- b. # Bedrooms / **Total Daily Flow:** _____ / _____ GPD (150 GPD/Bdrm)
- c. Required **Separation Distance:** 24" 30" (30" for 450 GPD and more – single bed *)
(* For flows > 450 GPD, may design multiple smaller beds and maintain 24" separation)
- d. **Min. Row Length:** 30' / 40' / 50' (see Table "Linear Footage of Enviro-Septic Required")
- e. # **Sections or Beds** (600 gpd max per Serial Section or Serial Bed): _____
- f. Linear Feet of **pipe required:** _____
- g. Minimum required **pipe spacing on center:** _____
- h. Enviro-Septic **row length:** _____ ft.
- i. Number of **E-S rows provided:** _____
- j. System Sand **bed dimensions:** _____ ft (L) / _____ ft (W)
- k. System **slope:** _____
- m. Depth to **SHWT:** _____
- n. **Maximum (Bed) depth** of excavation (limiting layer): _____
- o. Perimeter drain required: Yes No
- p. Low **vent** location determined? Yes No
(see remote vent detail - Page 3)
- q. Segment drain required (side by side multiple beds)? Yes No

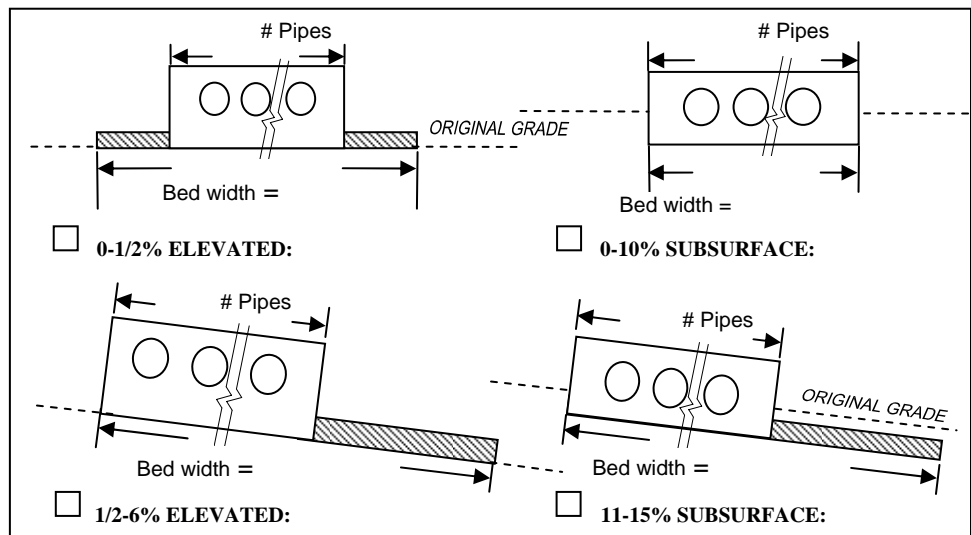
DESIGNER / INSTALLER NAME & ADDRESS:

OWNER NAME & ADDRESS:

SITE ADDRESS / LOT #:

- SINGLE BED:**
- SINGLE COMBINATION BED:**
(MULTIPLE SECTIONS)
- MULTIPLE BEDS:**
 - SIDE TO SIDE-**
 - END TO END-**
- NON-CONVENTIONAL CONFIGURATION:**
(SOIL CLASSES A-D ONLY)
- FLOOD DOSING REQUIRED?** (SEE PAGE 2)

Soil Class	Linear Footage of Enviro-Septic Pipe Required						Center-to-Center Spacing		Minimum Line Length
	Number of Bedrooms / gallons per day						0%-10% Slope	11%-15% Slope	
	Single Bed			Combination Beds					
	2 / 300	3 / 450	4 / 600	5 / 750	6 / 900	Add'l Room			
A	85	123	165	207	249	42	1.50'	1.50'	30'
B	100	150	200	250	300	50	1.50'	1.75'	30'
C	130	195	260	325	390	65	1.75'	2.00'	40'
D	160	240	320	400	480	80	3.00'	3.25'	50'



END VIEWS (Check one pipe configuration)

PRESBY ENVIRO-SEPTIC® INDIANA WORKSHEET©

PRESBY ENVIRONMENTAL, INC.

143 AIRPORT ROAD

WHITEFIELD, NH 03598

(800) 473-5298

Version Date 10/10/08

Design according to the Quick Reference Guide For Soil Classes E-G Elevated and Subsurface Systems Attachment.

SOIL CLASSES E-G

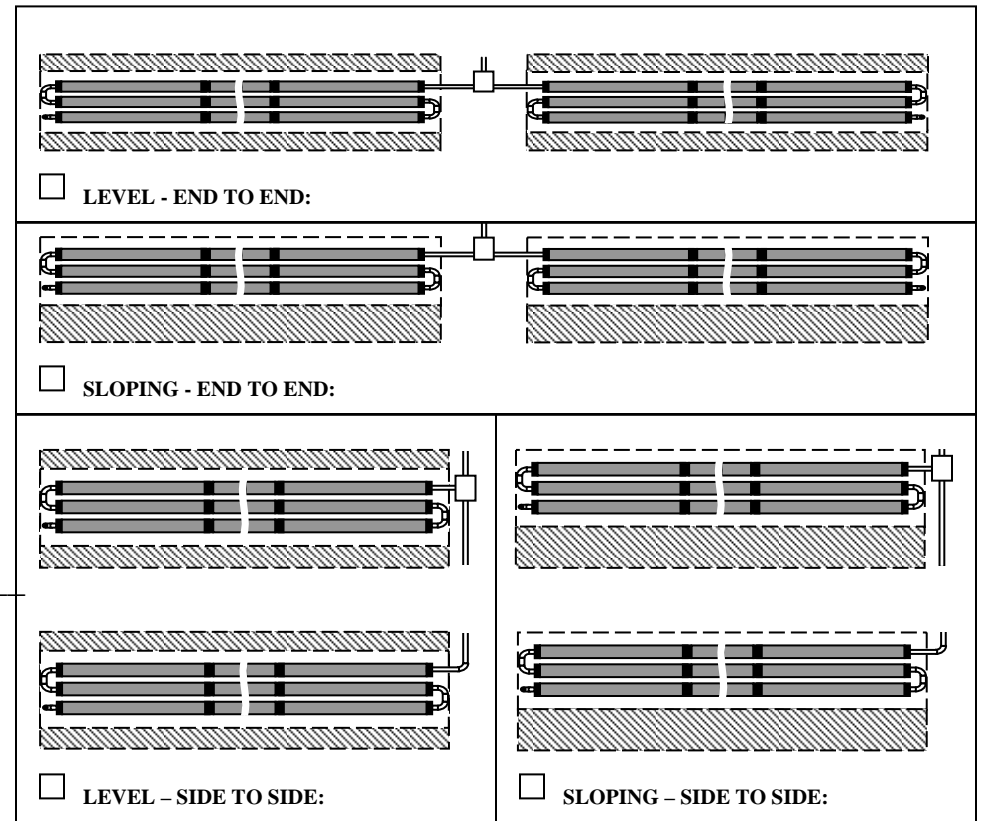
SYSTEM SIZING:

- a. Date: _____
 - b. **Soil Class:** _____
 - c. **# Bedrooms** (150 gpd /Bedroom) / **Loading Rate:** _____
 - d. **Number of Beds** (Table D): _____
 - e. **Min. combined line length** of all beds (Table D): _____
 - f. **Min. linear feet** of pipe required (Table D): _____
 - g. **# E-S Lines** per bed: _____
 - h. **Min. Line length** per bed: _____
 - i. Required **Bed Width** (Table D): _____
 - j. System sand **bed dimensions:** _____ If (L) / _____ If (W)
 - k. System **slope:** _____
 - l. Depth to **SHWT:** _____
 - m. Perimeter drain required (36" Below infiltrative surface): Yes No
 - n. **Maximum (Bed) depth** of excavation (limiting layer): _____
- (Observe all Installation Guidelines in the Enviro-Septic Wastewater Treatment System Indiana Design and Installation Manual for Residential Systems)**

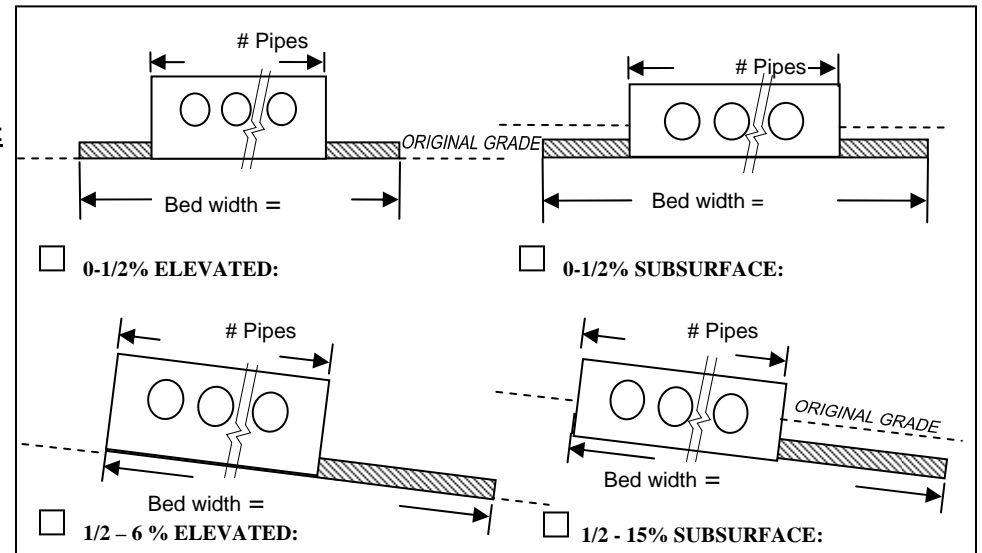
DESIGNER / INSTALLER NAME & ADDRESS:

OWNER NAME & ADDRESS:

SITE ADDRESS / LOT #:



PLAN VIEWS (Check one bed configuration)



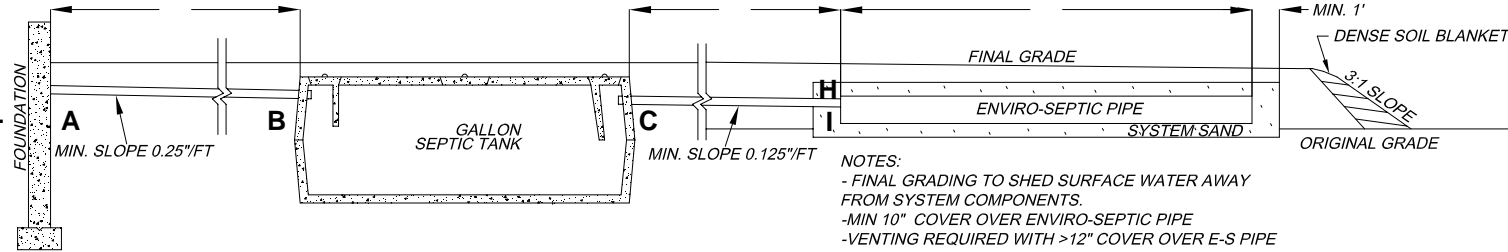
END VIEWS (Check one pipe configuration)

PRESBY ENVIRO-SEPTIC® INDIANA WORKSHEET© 10/10/08
ALL SOIL CLASSES – PAGE 2

GRAVITY EFFLUENT DISPOSAL SYSTEM (PROFILE- NOT TO SCALE)

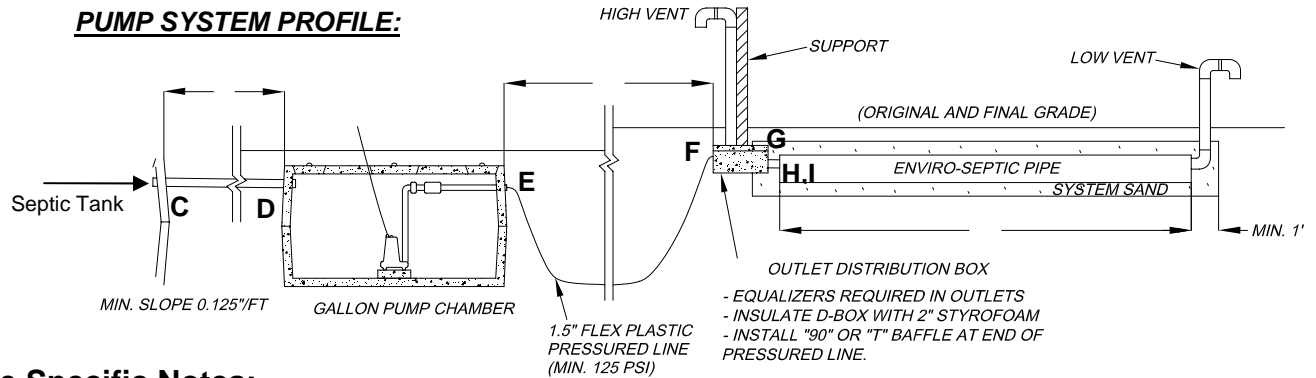
Flood Dosing? Yes No
Design Criteria:

- Differential Venting Required.
- Velocity Reduction at D-Box.
- Dose Frequency/Volume:
- Total Head:
- Dosing capacity:
- Pump Specifications:
 (6 doses per day minimum)



NOTES:
 - FINAL GRADING TO SHED SURFACE WATER AWAY FROM SYSTEM COMPONENTS.
 -MIN 10" COVER OVER ENVIRO-SEPTIC PIPE
 -VENTING REQUIRED WITH >12" COVER OVER E-S PIPE

PUMP SYSTEM PROFILE:



OUTLET DISTRIBUTION BOX
 - EQUALIZERS REQUIRED IN OUTLETS
 - INSULATE D-BOX WITH 2" STYROFOAM
 - INSTALL "90" OR "T" BAFFLE AT END OF PRESSURED LINE.

Site Specific Notes:

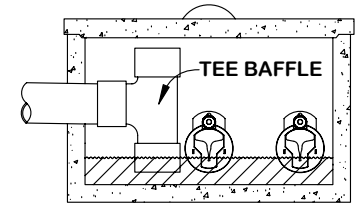
1. For gravity systems that incorporate a d-box: A tee baffle must be used at the end of the gravity line to facilitate air flow back through the building's roof stack (see detail below).

Schedule of Invert Elevations:

A- Bldg Out -	
B- Septic Tank (IN) –	
C- Septic Tank (OUT) –	
B2- Septic Tank 2 (IN) –	
C2- Septic Tank 2 (OUT) –	
D- Pump Chamber (IN) –	
E- Pump Chamber (OUT) –	
F- D-Box (IN) –	
G- D-Box (OUT) –	
H- E-S Pipe INV IN (Bed 1)	
I- E-S Pipe INV IN (Bed 2)	

Enviro-Septic Pipe Elevations

Line Number	1	2	3	4	5	6	7	8	9	10	11	12
Top Of Pipe												
Bottom Of Pipe												



TEE BAFFLE DETAIL

PRESBY ENVIRO-SEPTIC® INDIANA WORKSHEET© 10/10/08

GENERAL NOTES:

1) SYSTEM TO BE INSTALLED IN ACCORDANCE WITH **ENVIRO-SEPTIC® WASTEWATER TREATMENT SYSTEM INDIANA DESIGN AND INSTALLATION MANUAL** AND STATE AND LOCAL REGULATIONS. FOR PRODUCT INFORMATION OR THE NEAREST DEALER CONTACT PRESBY ENVIRONMENTAL, INC.- 143 AIRPORT ROAD, WHITEFIELD, NH 03598, PHONE 1-800-473-5298, WWW.PRESBYENVIRONMENTAL.COM

2) **MINIMUM OF 6" OF ASTM Standard C-33-03, Section 6.1 for fine aggregate or IN DOT Specification 23 sand 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 WET OR FROZEN GROUND OR LEAVE SYSTEM UNCOVERED FOR EXTENDED PERIODS OF TIME.

5) NO FLOOR DRAINS, HOT TUBS, SAUNAS, GARBAGE DISPOSALS, AND WATER SOFTENERS ETC. SHALL BE INCORPORATED INTO THIS SYSTEM UNLESS OTHERWISE SPECIFIED.

6) **MAINTENANCE:** RECOMMEND INSPECTION OF SEPTIC TANKS AT LEAST ONCE EVERY TWO YEARS AND PUMP 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) SYSTEM TO BE REPLACED IN SAME LOCATION IF NECESSARY

410 IAC 6-8.1-37 Septic tanks; general requirements

Sec 37. (a) All septic tanks, dosing tanks, lift stations and soil absorption systems shall be located in accordance with Table II as follows:

TABLE II

<u>Minimum Distance in Feet From</u>	<u>Septic Tank, Dosing Tank, Lift Station</u>	<u>Upslope From Absorption System</u>	<u>Downslope From Absorption System</u>
Private water supply well	50*	50*	50*
Private geothermal well	50*	50*	50*
Commercial water supply well	100*	100*	100*
Commercial geothermal well	100*	100*	100*
Public water supply well or reservoir	200*	200*	200*
Other lake or reservoir	50	50	50
Stream, ditch, or drainage tile**	25	25	25
Dwelling, inground swimming pool, or other structure	10	10	50***
Front, side, or rear lot lines	5	5	5
Water lines continually under pressure	10	10	10
Suction water lines	50	50	50

PRESBY ENVIRO-SEPTIC® INDIANA WORKSHEET©

INDIANA STATE DEPARTMENT OF HEALTH
Division of Sanitary Engineering
(317) 233-7179 Fax: (317) 233-7047

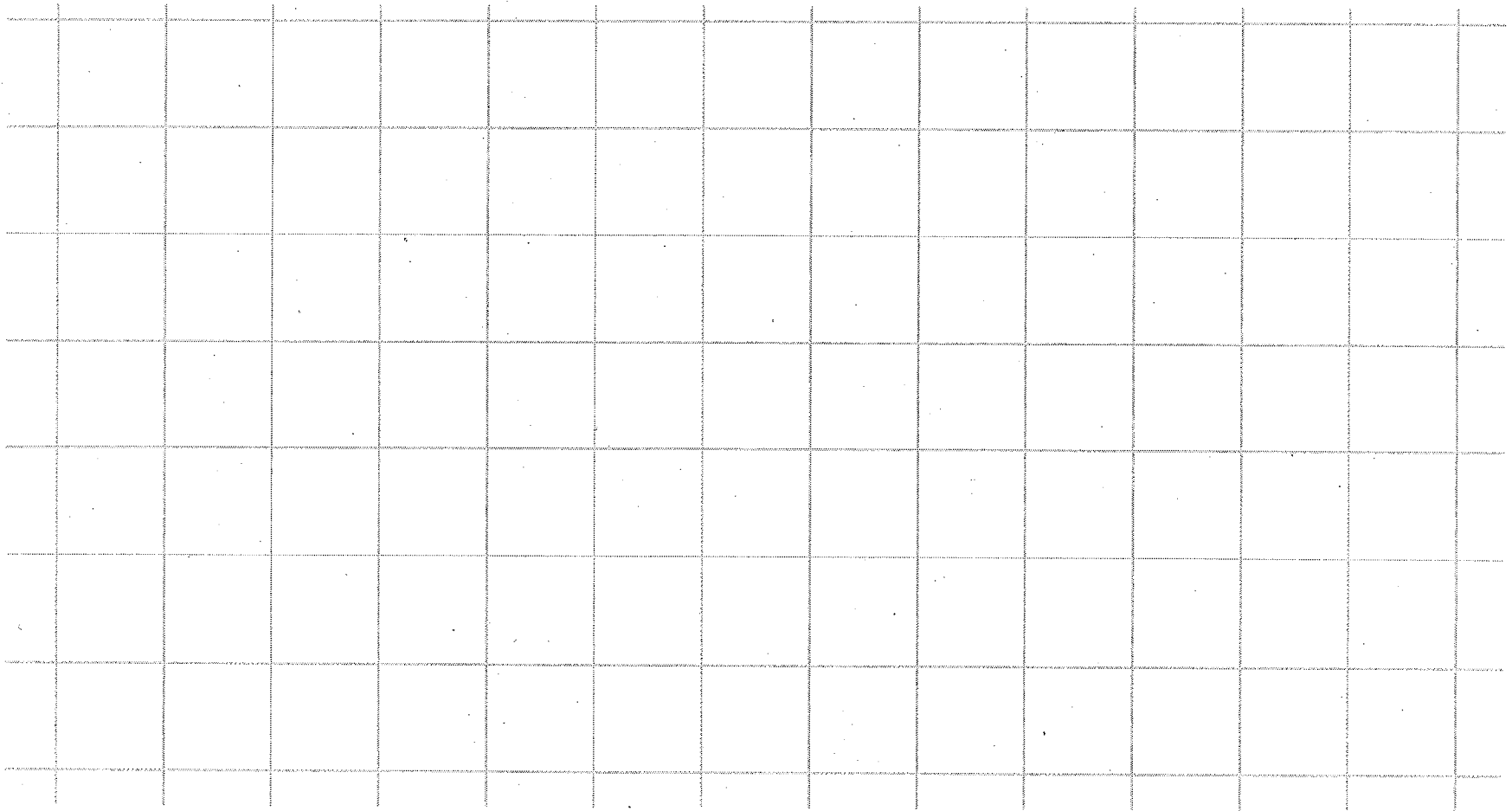
Town / City

Street / Road

Owner's Name

ENVIRO-SEPTIC WASTEWATER TREATMENT SYSTEM - DESIGN SITE PLAN

SCALE: 1" = _____ FT.



SOIL PROFILE INFORMATION

(Attach Soil Evaluation Report)

Depth to Limiting Layer _____

Soil Group /Loading Rate _____

CONSTRUCTION ELEVATIONS

Finished Grade Elevation _____

Bottom of Enviro-Septic Pipe _____

Bottom of System Sand Bed _____

BENCHMARK REFERENCE POINT

Location & Description:

Reference Elevation: _____