

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:

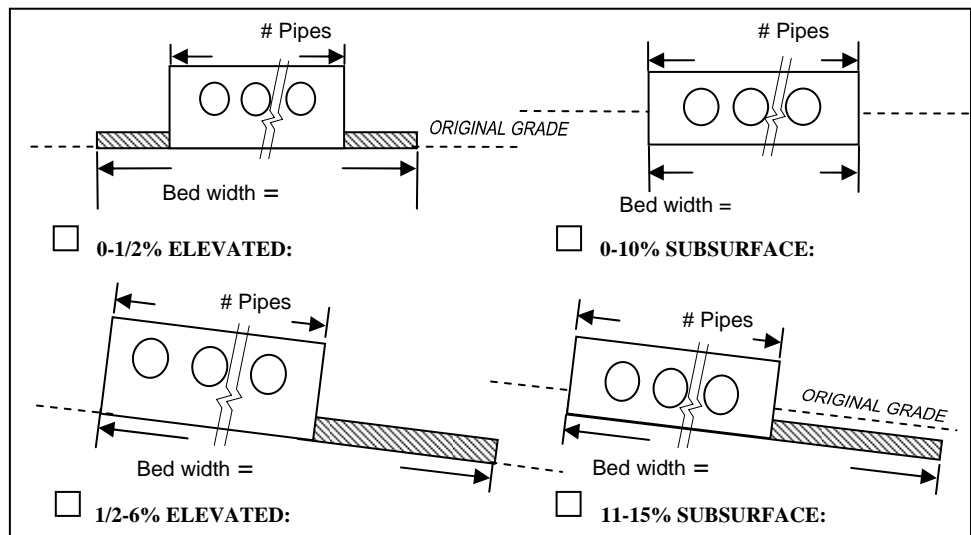
SIDE TO SIDE-

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)

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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

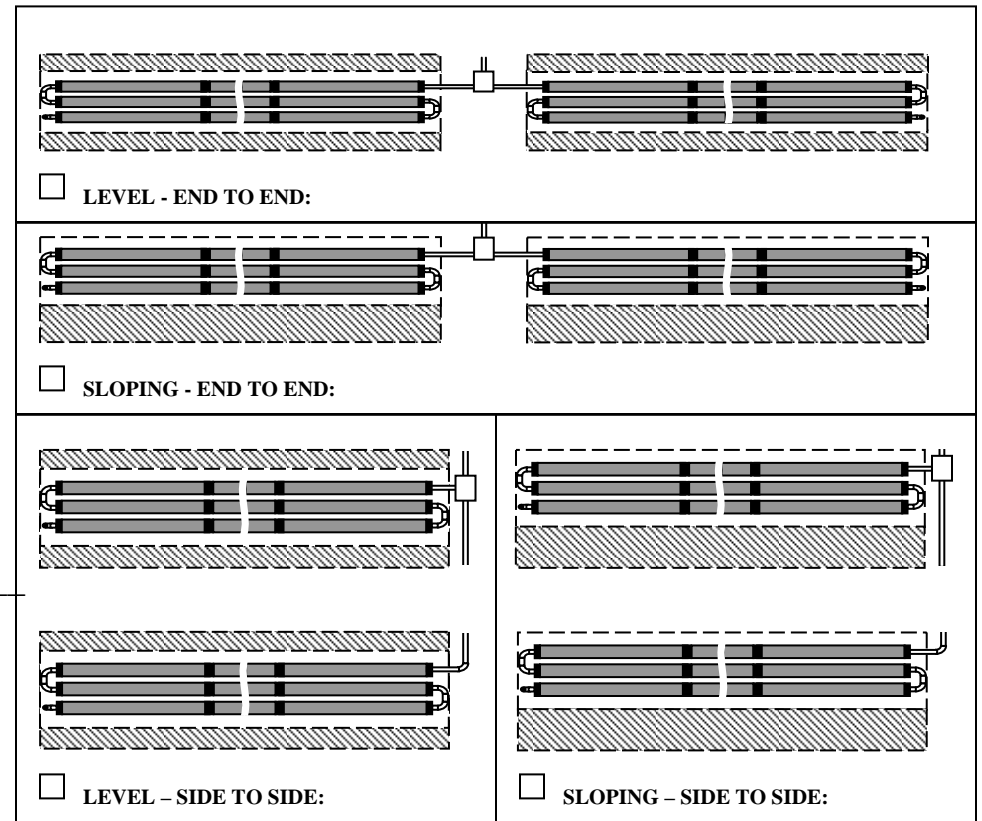
SYSTEM SIZING:

- 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)**

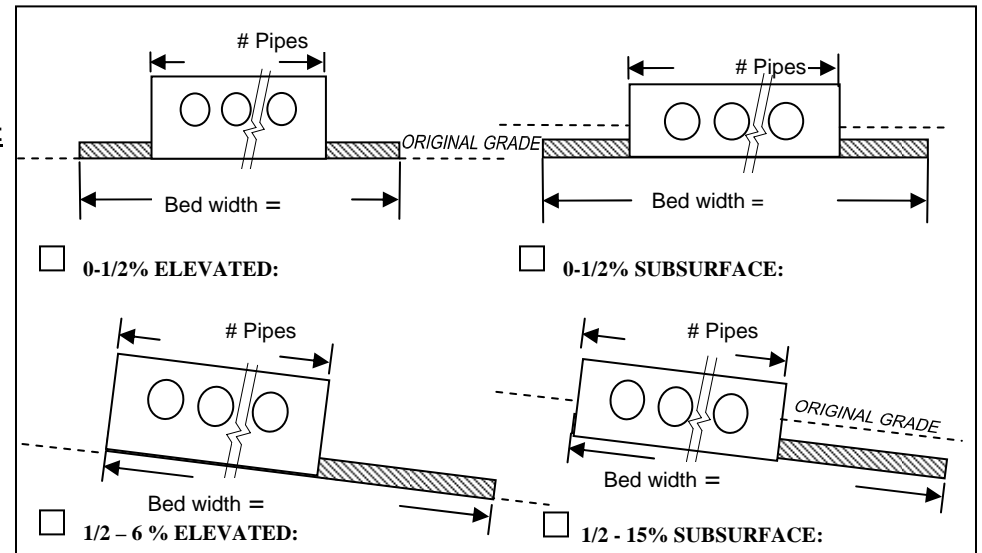
DESIGNER / INSTALLER NAME & ADDRESS:

OWNER NAME & ADDRESS:

SITE ADDRESS / LOT #:



PLAN VIEWS (Check one bed configuration)



END VIEWS (Check one pipe configuration)

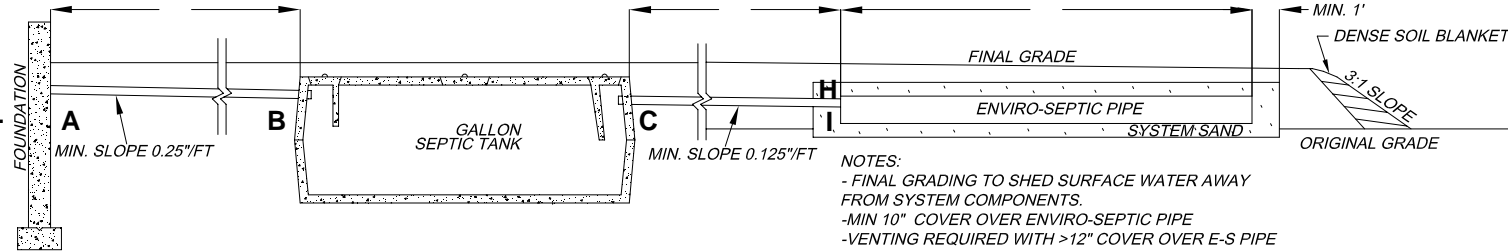
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ALL SOIL CLASSES – PAGE 2

GRAVITY EFFLUENT DISPOSAL SYSTEM (PROFILE- NOT TO SCALE)

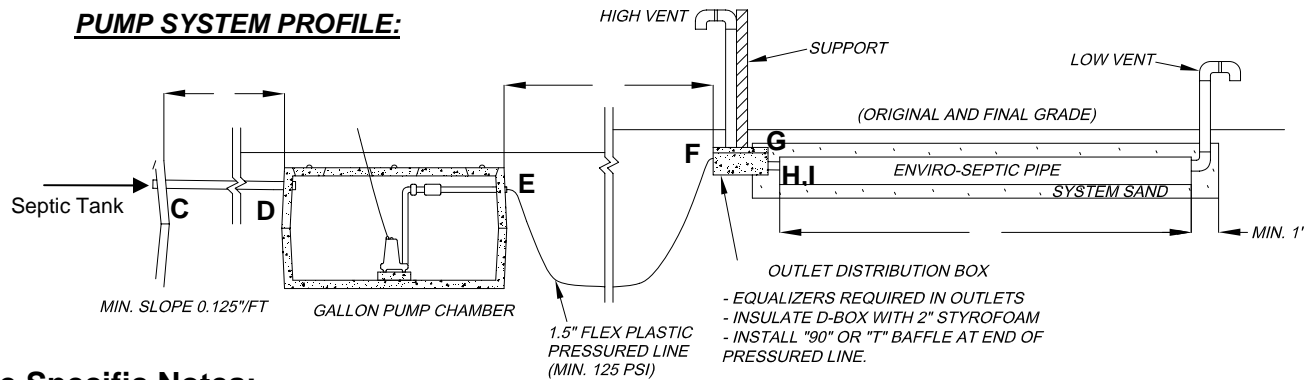
Flood Dosing? Yes No

Design Criteria:

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



PUMP SYSTEM PROFILE:



Site Specific Notes:

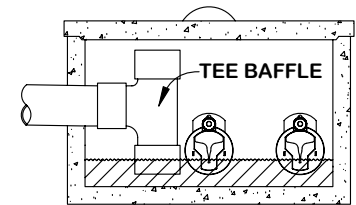
1. For gravity systems that incorporate a d-box: A tee baffle must be used at the end of the gravity line to facilitate air flow back through the building's roof stack (see detail below).

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

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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

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

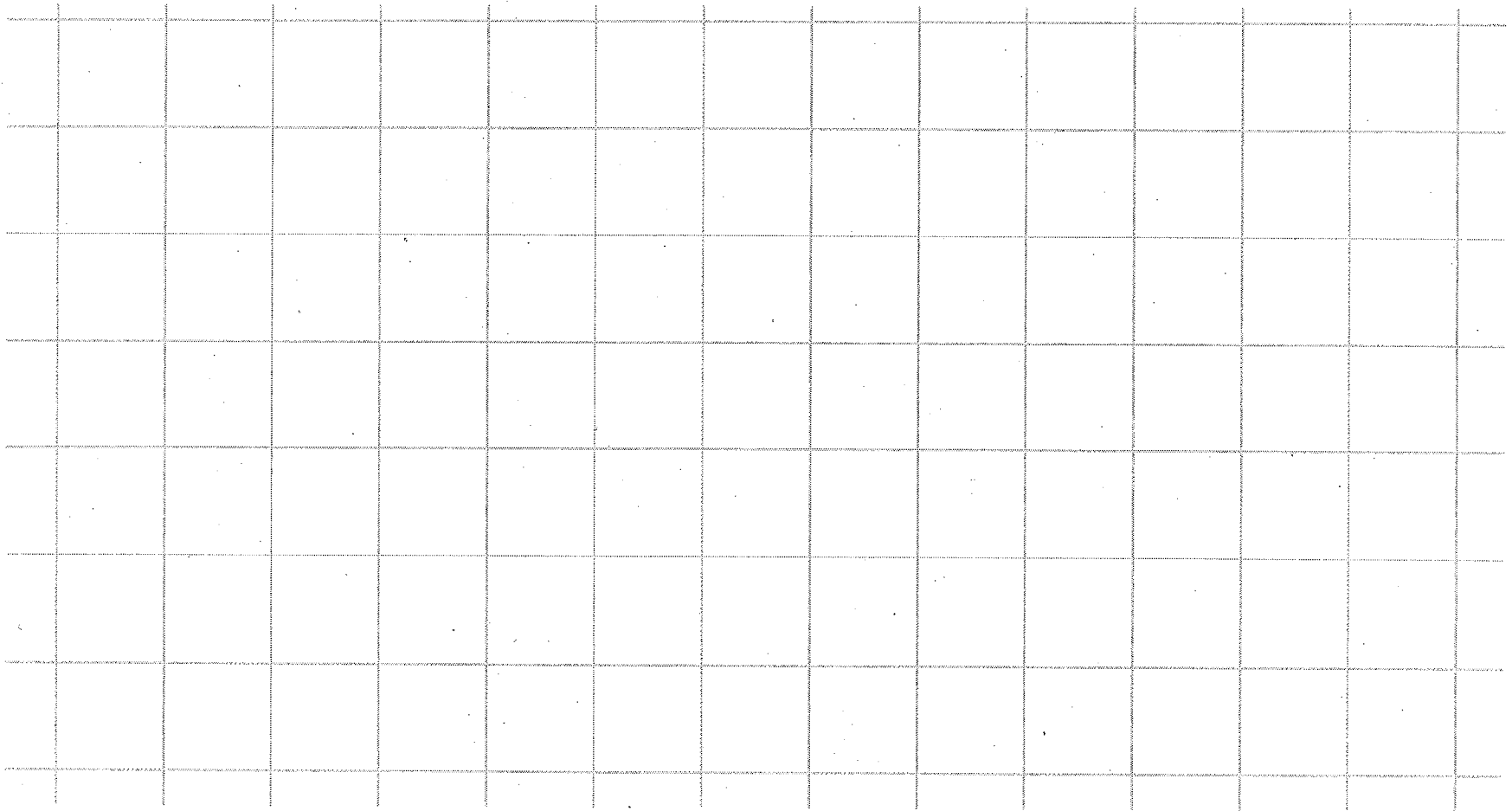
Town / City

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: _____