CASS COUNTY HEALTH DEPT. - FLOOD DOSED WORK SHEET

Project: _	Date:	_
Installer:	_	Refer to 410 IAC 6-8.2-73, Sec. R

Daily Design Flow in one dose + Drainback (Table 1) = _____ gallons/day.

Pump Discharge Rate (*Table 2*) = gallons/minute.

Total Head

Elevation difference between pump off and the inlet in the distribution box. (Static Head)

Fitting Friction Loss (multiply the equivalent footage from table 3 by the friction loss from table 4)

Friction loss in _____ feet of ____ inch pipe. (Table 4)

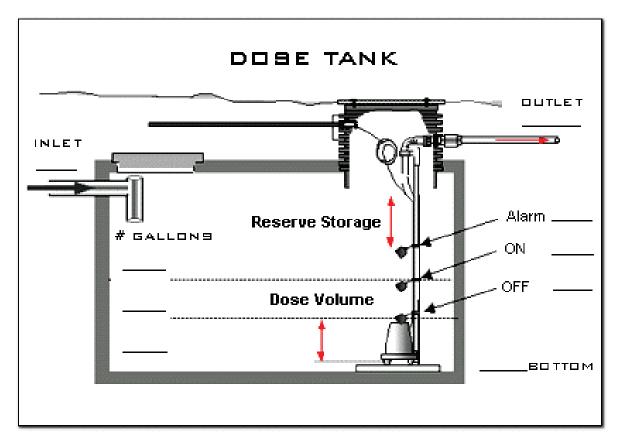
_____ feet

_____ feet

_____ feet

Total Head _____ feet

Pump selected:



Provide a copy of the **PUMP CURVE** to the Cass County Health Department

TABLE 1

Drainback Calculation						
Diameter (Inches)	1"	1 1⁄4"	1 ½"	2"	3"	4"
Volume (Gal./ft.)	.045	.078	.106	.174	.384	.650

TABLE 2

Required Pump Discharge Rates for Flood Dosed Systems			
Number of Bedrooms	Discharge Rate (GPM)		
1	30		
2	30		
3	30-45		
4	30-60		
5	38-75		
6	45-90		

TABLE 3

Fitting Friction Chart (per SSPMA)						
Nominal Pipe Size	90° Elbow	45° Elbow	Tee (Thru-flow)	Tee (Branch flow)	Swing Check Valve	Gate Valve
2"	5.2 ft	2.8 ft	3.5 ft	10.3 ft	17.2 ft	1.4 ft
2 ½"	6.2 ft	3.3 ft	4.1 ft	12.3 ft	20.6 ft	1.7 ft
3"	7.7 ft	4.1 ft	5.1 ft	15.3 ft	25.5 ft	2.0 ft

TABLE 4

Table VII – Friction Losses in Plastic Pipe *Only most common pipe size and flow rate. Refer to the rule for additional sizes/rates			
Pipe Diameter = 2" (most common size)			
Flow (gpm)	Friction loss in feet / 100 feet		
30	1.82		
35	2.42		
40	3.10		
45	3.85		
50	4.86		