CALCULATIONS

Location WALDED RIDGE SUBDIVISION

Project Number 01-1069

Lot No: Lot 12

No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	.225 gpd/ft²	
25% RED.? (YES OR NO)	YES	
Supply Line Length	175	ft.
Supply Line Volume	30.45	gal.
Required Feet of Line	533	ft.
Amount of Line from Layout	540	ft.
Gallons per Minute	42.66	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	352.62	gal.
Dosing Volume	246.83	gal.

Note: Dosing Volume based on70% of lateral line volume

Tank Draw Down	11.8	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	5.79	minutes
Elevation Head	16.3	ft.
Pressure Head	2	ft.
Friction Factor	1.78	ft./100 ft. *(From the interpolater.)*
Friction Head	3.12	ft.
Total Dynamic Head (+15%)	24.63	ft.

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
	-1.28
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42