CALCULATIONS

Location OAK RIDGE

Project Number 01-1296

Lot No: Lot 13

No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.275	gpd/ft²
25% RED.? (YES OR NO)	YES	
Supply Line Length	140	ft.
Supply Line Volume	24.36	gal.
Required Feet of Line	327.2727	ft.
Amount of Line from Layout	330	ft.
Gallons per Minute	21.33	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	215.49	gal.
Dosing Volume	150.84	gal.

Note: Dosing Volume based on70% of lateral line volume

Tank Draw Down	7.2	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	7.07	minutes
Elevation Head	12	ft.
Pressure Head	2	ft.
Friction Factor	1.27	ft./100 ft. *(From the interpolater.)*
Friction Head	1.78	ft.
Total Dynamic Head (+15%)	18.14	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