CALCULATIONS

Location Carlyle Road Lot 56 Repair

Project Number 5-1653s2

Lot No: 56

No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.3	$^{gal}/_{ft^2\,day}$
EZ-Lay? (YES OR NO)	yes	
Supply Line Length	140	ft.
Supply Line Volume	24.36	gal.
Required Feet of Line	300	ft.
Amount of Line from Layout	300	ft.
Gallons per Minute	26.81	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	195.9	gal.
Dosing Volume	137.13	gal.

Note: Dosing Volume based on 70% of the lateral line volume.

Tank Draw Down	6.5	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	5.11	minutes
Estimated Elevation Head	15.2	ft.
Pressure Head	2	ft.
Friction Factor	1.45	ft./100 ft. *(From the interpolater.)*
Friction Head	2.03	ft.
Total Dynamic Head (+15%)	22.11	ft.

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
26.81	1.45
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
40.67	3.13
45	3.77
48.14	4.28
50	4.58
57.11	5.89
58.47	6.14
60	6.42