CALCULATIONS

Location CL&T GREYFRIARS ROAD

Project Number

Lot No: Lot 523

No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	0.3	$^{gal}/_{ft^2\ day}$
PPBPS? (YES OR NO)	YES	
Supply Line Length	181	ft.
Supply Line Volume	31.494	gal.
Required Feet of Line	266.6667	ft.
Amount of Line from Layout	269	ft.
Gallons per Minute	25.45154	$^{gal}/_{min}$
	Note: Flow/hole (.41gpm) x # of panels (64)	
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Panel Volume	3.6	gal.
# of Panels	64	
Dosing Volume	154	gal.
	Note: Dosing Volume based on 67% of # of panels times 3.6 gal/panel	
Tank Draw Down	7.4	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	6.07	minutes
Elevation Head	18.2	ft.
Pressure Head	2	ft.
Friction Factor	1.27	ft./100 ft. *(From the interpolater.)*
Friction Head	2.30	ft.
Total Dynamic Head (+15%)	25.87	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