CALCULATIONS

Location Carlyle Road Lot 57

Project Number 5-1653s2

Lot No: 57

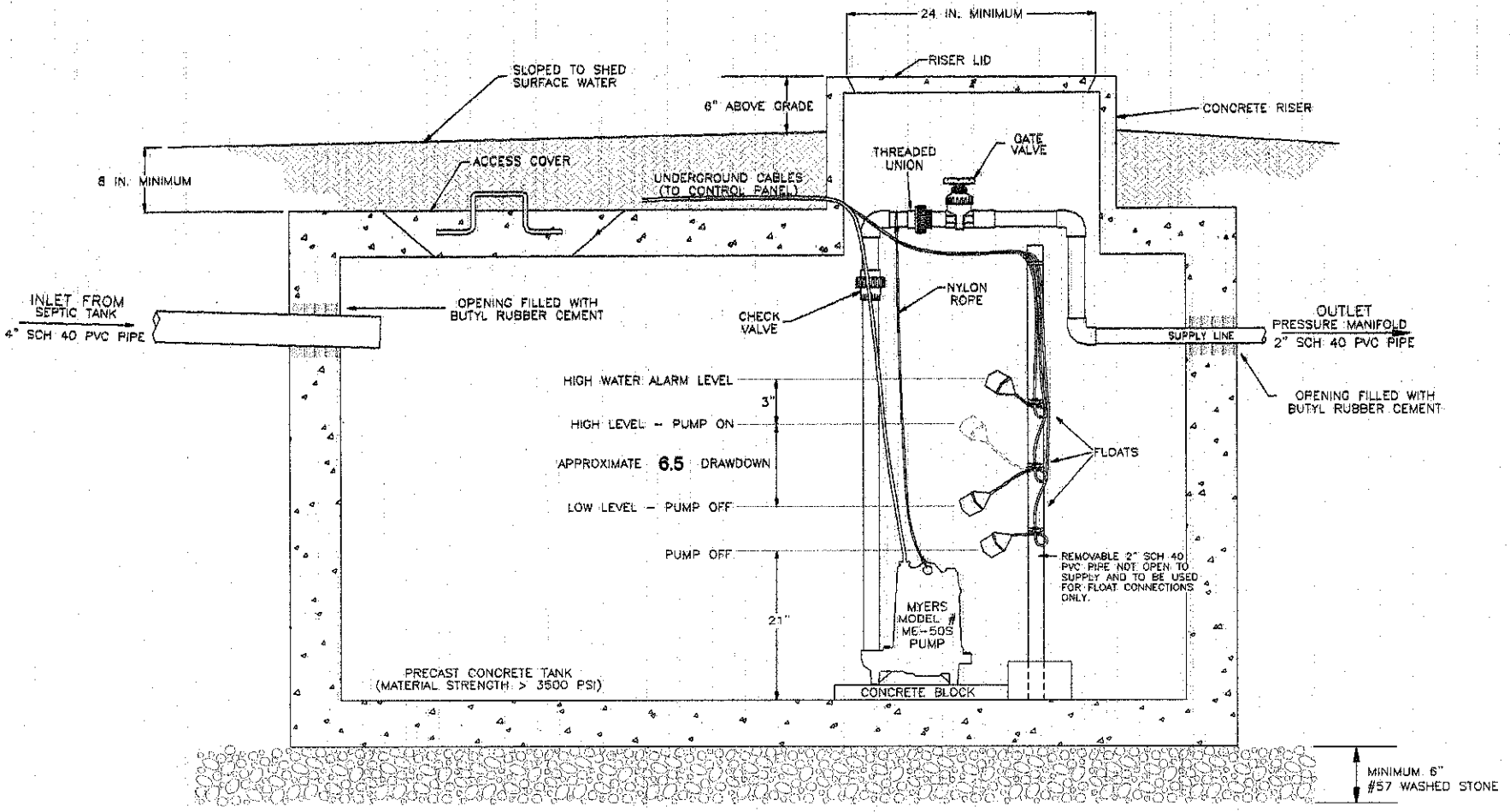
No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.3	$^{gal}/_{ft^2\ day}$
EZ-Lay? (YES OR NO)	yes	
Supply Line Length	100	ft.
Supply Line Volume	17.4	gal.
Required Feet of Line	300	ft.
Amount of Line from Layout	300	ft.
Gallons per Minute	28.44	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	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.

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
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

Tank Draw Down	6.5	*Generic Draw Down of 21 gal.per in.*
Pump Run Time	4.82	minutes
Estimated Elevation Head	11.8	ft.
Pressure Head	2	ft.
Friction Factor	1.78	ft./100 ft. *(From the interpolater.)*
Friction Head	1.78	ft.
Total Dynamic Head (+15%)	17.92	ft.



NOTES

1. TANK DIMENSIONS VARY BY MANUFACTURER.
2. DRAWDOWN WILL VARY WITH TANK DIMENSIONS. DRAWDOWN SHOWN BASED ON 21 GALLONS PER INCH.

1000 GALLON PUMP TANK

PROJECT NO. 5-	PROJECT NAME: Carlyle Road Lot 57	S&EC Soil & Environmental Consultants, Inc.
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SCALE NTS	SHEET TITLE: PUMP TANK DIAGRAM	Web Page: www.SandEC.com