

# Pressure Manifold Design Criteria

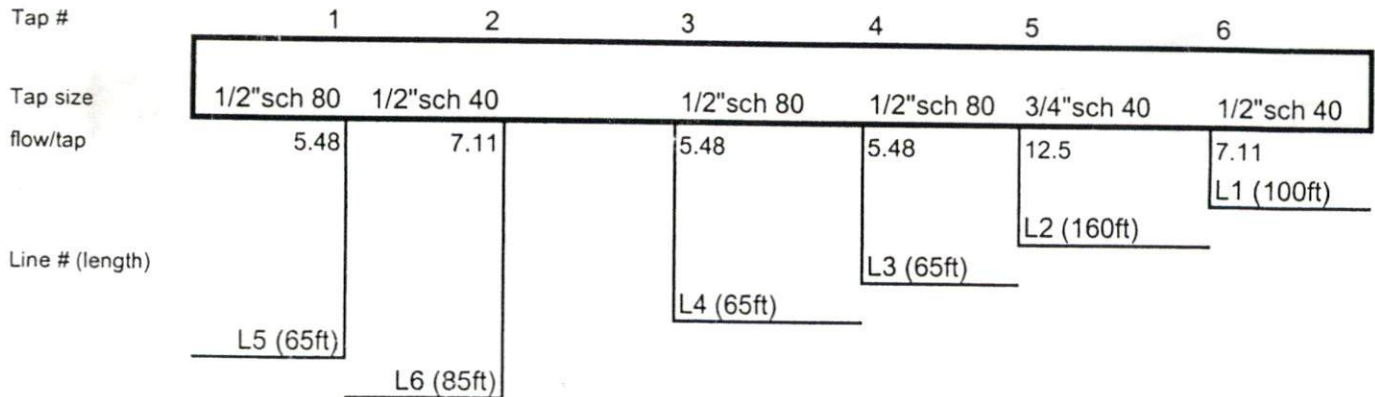
## Initial System

Line Number	Line Color	Elevation	Drainline Length(ft)	Tap Size/Schedule	Flow/tap (gpm)	gpd/ft	LTAR (gpd/sqft)
1	B	104.45	100	1/2"sch 40	7.11	0.988	0.329
2	Y	103.98	160	3/4"sch 40	12.50	1.086	0.362
3	W	102.88	65	1/2"sch 80	5.48	1.172	0.391
4	R	101.26	65	1/2"sch 80	5.48	1.172	0.391
5	Y	100.48	65	1/2"sch 80	5.48	1.172	0.391
6	B	100.24	85	1/2"sch 40	7.11	1.163	0.388

Total Drainline= 540 Total Flow= 43.16

Pressure Head (ft)= 2 Daily Flow 600 % Pipe Volume = 75  
 Target LTAR (gpd/sqft)= 0.4 Total Flow (gpm)= 43.16 Dose Volume (gal)= 264.47  
 LTAR + 5% 0.42 Daily PRT(min)= 13.90 Dose PRT (min)= 6.13

### Manifold Diagram:



# Lot 5/6, Myrtlewood Subdivision

Onsite Wastewater Design Specifications  
 Bedrooms: 5 (600 gpd flow)

**Initial System:**

Pressure Manifold to Innovative Drainlines (540-ft)  
 installed on contour at 12 to 18 inches  
 LTAR 0.3 gpd/sf (innovative effective LTAR 0.37 gpd/sf)

**Repair System:**

Pressure Manifold to Conventional Drainlines (1000-ft)  
 installed on contour at 18 to 24 inches  
 LTAR 0.2 gpd/sf

Lines flagged at site on 9-ft centers.

Initial/ Repair	Line #	Color	Drainline Length(ft)	Measured Field Line Length (ft)	Relative Elevation (ft)
Initial	1	B	100	123	104.45
Initial	2	Y	160	161	103.98
Initial	3	W	65	66	102.88
Initial	4	R	65	77	101.26
Initial	5	Y	65	64	100.48
Initial	6	B	85	88	100.24
Repair	7	Y	70	72	99.95
Repair	8	W	65	68	99.71
Repair	9	R	65	65	99.52
Repair	10	B	60	61	99.32
Repair	11	Y	60	61	99.21
Repair	12	W	60	61	98.98
Repair	13	R	60	60	98.71
Repair	14	B	55	57	98.45
Repair	15	Y	55	57	98.06
Repair	16	W	50	51	97.83
Repair	17	R	50	51	97.55
Repair	18	B	50	51	97.27
Repair	19	Y	50	51	96.91
Repair	20	W	50	51	96.69
Repair	21	R	50	51	96.38
Repair	22	B	50	50	95.86
Repair	23		50		
Repair	24		50		
		<b>Total:</b>	<b>1540</b>	<b>1497</b>	<b>EIP = 100</b>

# Lot 5/6, Myrtlewood S division

