Design Specifications

Lot #57 – Pinnacle Shores Subdivision

Daily design flow:	480 gpd. - 4bedroom house
Septic tank size:	1000 gal. (2 compartments)
Pumping tank size:	1000 gal.
Effluent loading rate:	0.3 gpd/sf initial system
	0.3 gpd/sf repair system
Total length and diam of supply mani	app. 90 lf-3" sch 40 PVC, 340' lf of 1¼" sch 40 PVC
Number and length of laterals:	2 @ 90', 1 @ 40', 1 @ 50'
	Repair varying lengths to 297'
Hole size:	5/32"
Hole spacing:	1 per panel near middle, turned up
Total number of values	4 @ 1¼" from 3" manifold & supply
Flow rate through the system:	31.5 gpm
Elevation head:	20.2'
Pressure head:	3.0'
Friction head:	4.6'
20% contingency	5.6
Total head:	33.4'
Pump requirements:	31.5 gpm at 33.4' of head; use Myers "ME 50" ½hp pump or equivalent with compatible electrical
Dosing volume:	168 gal. – 2.9 doses/day at design flow*
Depth of water pumped per dose:	calculated to specific tank by measure or dealer engineering specifications(1 cubic ft. of water equals 7.48 gals.)
Pump run per dose:	approx. 5.4 min.
Check valve:	Yes
Siphon break hole:	No

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* Before placement of cap block, one panel on each line near the center of the field should be observed filling to make certain that it does not overflow top chamber into air chambers of panel. If overflow occurs, reduce floats by 25 gallons and reset until no overflow is observed.