Design Specifications

Daily design waste flow:	360 gpd
Septic tank size:	1000 gal. (2 compartments)
Pumping tank size;	1000 gal.
Effluent loading rate:	0.15 gpd/sf LPP, both system and repair
Total linear feet and diameter of laterals:	480 ft. of 1¼" dia. sch 40 in 12" wide trench with 10-12" of stone. Distribution pipe sleeved in 4" corrugated or 480' of perforated black pipe.
Total length and diameter of supply pipe and/or manifold:	20lf - 2" sch 40 PVC, 75lf of 1¼ diam. sch 40 . System 6 @70-82' with end manifold. Repair 480', varying lengths with end manifold. This will be a split system.
Hole size:	see specification (both 3/16 and 5/32")
Hole spacing:	7 to 10.25'
Total number of holes:	59
Flow rate through the system:	35.2 gpm
Elevation head:	5.5'
Pressure head:	4.05'
Friction head:	2.0'
20% contingency:	2.3'
Total head:	13.86'
Pump requirements:	38 gpm at 14' head; use Myers 4/10hp ME40 pump or equivalent with compatible electrical.
Dosing volume:	181 gal. = 2 doses/day
Depth of water pumped per dose:	calculated to specific tank used (1 cubic ft.=7.48gal.)
Pump run per dose:	app. 5.0 min.
Check valve:	No
Siphon break hole	Yes (added 2 gpm)

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