DESIGN SPECIFICATIONS - LOW PRESSURE PIPING SYSTEM

David Montgomery Residence

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Daily design waste flow:	360 gpd
Septic tank size:	1,000 gal. (2 compartment)
Pumping tank size:	1,000 gal.
Effluent loading rate:	0.15 gpd/sf
Total absorption areas:	2400 sf active
Total linear feet and diameter of laterals:	480 ft. of 1¼" dia. PVC
Total length and diameter of supply manifold:	±50 lf - 1"½ dia. SCH 40 PVC
Number and length of laterals:	8 laterals 60' long inside 4" corrugated perforated pipe
Manifold placement:	Center of field
Hole size:	5/32"
Hole spacing:	Varies, see chart
Total number of holes:	82
Flow rate through the system:	39.1 gpm
Elevation head (pump to end of manifold):	9.5'
Pressure head:	2.'
Friction head:	4.0'
Total head:	15.5'
Pump requirements:	39.1 gpm @ at 15.5'; use Myers ME-33, 1/3 , 3450 rpm, 115v, 1 phase, 60 Hz effluent pump
Dosing volume:	236 gal.
Depth of water pumped per dose:	11.3"
Pump run per dose:	9.07 min.
Check valve:	no
Syphon break hole:	yes

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