PRESSURE MANIFOLD SYSTEM
FOR WASTEWATER TREATMENT

Owner:	Spear Builders, Inc.
Address:	172 Allendale Cr Troutman 28166
Phone:	704-202-4964
County:	Iredell
Location:	DavidsonWoods LOT #53
Source of Wastewater Flow:	3 Bedroom Single Family Residence
Estimated Gallons Per Day Flow:	360
System Flow:	16.44

Design Specifications

Drainfield Size:	240
Loading Rate (gpd/ft.^{2}):	0.25
Depth of Gravel in Trench:	NA (50% reduction)
Gravel Size:	NA (50% reduction)
Trench Depth:	36 in.
Trench Width:	36 in.
Septic Tank Size:	1000
Pump Tank Size:	1000
Estimated Supply Line Length:	121
Supply Line Diameter:	2 in. SCH 40 PVC
Supply Line Volume:	21.05
Dosing Volume:	133.59
Supply Manifold:	4 in. SCH 80 PVC
Supply Manifold Length:	4 ft. (minimum)
Supply Manifold Volume:	N/A
Recommended Float Controls:	SJE Sensor Float Control Switches as Required for Control Panel or County Approved Equivalents
Recommended Control Panel:	SJE-Rhombus Model 112 (NEMA 4x) Control Panel or County Approved Control Panel.
Pressure Head:	2 ft.
Friction Head:	1.02
Elevation Head:	13.60
Total Dynamic Head:	19.11
Threaded Union:	In Tank
Gate Valves:	1 in Tank 1 at Pressure Manifold
Check Valves:	In Tank
Anti-Siphon Hole:	NA
Additional Comments:	Soil suitability was performed by Rollans Soil & Environmental Services.