PRESSURE MANIFOLD SYSTEM FOR WASTEWATER TREATMENT

Owner: Annistion LLC

Address: 17824 Statesville Rd STE 112
Conover, NC 28031

Phone:
County: Iredell
Location: Anniston Subdivision Lot 115

Source of Wastewater Flow: 5 Bedroom Single Family Residence
Estimated Daily Wastewater Production: 600
System Flow: 28.44

Design Specifications

Drainfield Size: 500
Loading Rate: 0.3 gpd/ft.^{2}
Depth of Gravel in Trench: NA (25% reduction)
Gravel Size: NA (25% reduction)
Trench Depth: 36 in.
Trench Width: 36 in.
Septic Tank Size: 1500 gal.
Pump Tank Size: 1500 gal.

Estimated Supply Line Length: 125
Supply Line Diameter: 2 in. SCH 40 PVC
Supply Line Volume: 21.75
Dosing Volume: 228.55
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: 2.23
Elevation Head: 12.00
Total Dynamic Head: 18.66

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.