ROLLANS *SOIL & ENVIRONMENTAL SERVICES*

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Attached is a proposed design for a PPBPS Septic System with low pressure distribution for a 5 bedroom single family residence on Lot 52 in Anniston Subdivision Iredell County, North Carolina.

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August 17, 2006
Project No.01-1005
Design By: Rollans Soil & Environmental Services

LP PPBPS SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant: Anniston LLC

Address: 17824 Statesville Rd STE 112
Conover, NC 28031

Phone:
County: Iredell
Location: Anniston Subdivision Lot 52

Source of Wastewater Flow: 5 Bedroom Single Family Residence
Estimated Daily Wastewater Production: 600 gpd
System Flow: 35.26

Design Specifications

Drainfield Size: 375
Loading Rate: 0.3 gpd/ft.^{2}
Depth of Gravel in Trench: NA (PPBPS)
Gravel Size: NA (PPBPS)
Trench Depth: 36 in.
Trench Width: 36 in.
Septic Tank Size: 1500 gal.
Pump Tank Size: 1500 gal.

Estimated Supply Line Length: 139
Supply Line Diameter: 2 in. SCH 40 PVC
Supply Line Volume: 24.19
Dosing Volume: 207.43
Supply Manifold: N/A
Supply Manifold Length: N/A
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: 3.29
Elevation Head: 13.60
Total Dynamic Head: 21.73

Threaded Union: In Tank
Gate Valves: 1 in Tank
1 per lateral
Check Valves: In Tank
Anti-Siphon Hole: NA
Additional Comments: Soil suitability was performed by Rollans Soil & Environmental Services

Anniston Lot 52

Project #:01-1005

LAYOUT FOR 5 BEDROOM HOME

August 17, 2006

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		0.6			100.00		
INSTR. 1			100.60				
HOUSE CNR				11.20	89.40		
P. TANK				10.20	90.40		
1	***RED***			***1.60***	***99.00***	*40*	*40*
2	***ORANGE***			***2.10***	***98.50***	*60*	*60*
3	***BLUE***			***3.00***	***97.60***	*80*	*80*
4	***PINK***			***3.80***	***96.80***	*95*	*95*
5	***RED***			***4.60***	***96.00***	*105*	*100*
6	ORANGE			5.40	95.20	*128*	*128*
7	BLUE			6.10	94.50	*113*	*113*
8	PINK			7.10	93.50	*83*	*83*
9	RED			8.10	92.50	*45*	*45*
					Total	749	744

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
**** System***	***375***	***0.3***	***MOD.***	***0.3***	***PPBPS***	***LOW PRESSURE***
Repair	369	0.3	MOD.	0.3	PPBPS	LOW PRESSURE

Notes:

** TBM located top of ground (see site plan)

**TBM is assumed to be 100'

**All measures in feet

**Nitrification lines are demonstrated on contour via colored pin flags

**BS, HI, and FS indicate rod readings