LP PPBPS SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant: S&L HOMES

Address: 110 Charleston Dr. Suite 108
Mooresville, NC 28117
Phone: 704-662-8467
County: Iredell
Location: Twin Creeks Subdivision ph 1 Lot #8

Source of Wastewater Flow: 4 Bedroom Single Family Residence
Estimated Daily Wastewater Production: 480 gpd
System Flow: 26.49230769

Design Specifications

Drainfield Size: 280
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: 1000
Pump Tank Size: 1000

Estimated Supply Line Length: 660
Supply Line Diameter: 2 in. SCH 40 PVC
Supply Line Volume: 114.84
Dosing Volume: 155.85
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: 11.75
Elevation Head: 28.60
Total Dynamic Head: 48.70

Threaded Union: In Tank
Gate Valves: 1 in Tank 5
1 per lateral (4)
Check Valves: In Tank
Anti-Siphon Hole: NA
Additional Comments: Soil suitability was performed by Rollans Soil & Environmental Services

Pinecrest Estates Lot 8
LP PPBPS

DESIGN FLOW:	480
SOIL APPLICATION RATE:	0.3 gpd/ft²
TOTAL AREA TRENCH BOTTOM:	480
TOTAL LATERAL LENGTH:	280
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	266.6666667
SUPPLY LINE LENGTH:	660
TOTAL DYNAMIC HEAD:	48.70
MANIFOLD SIZE:	N/A
DOSING VOLUME:	155.85
PUMP TANK DRAW DOWN*:	7.4
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	1000

**Pump tank draw down based on a volume basis of 21 gallons per inch. Draw down may vary among pump tank manufacturers.*

Twin Creeks Lot 8

Project #:

LAYOUT FOR 4 BEDROOM HOME

January 19, 2006

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		2.8			100.00		
INSTR. 1			102.80				
HOUSE CNR				26.10	76.70		
P. TANK				27.90	106.00		
1	***PINK***			***6.30***	***96.50***	***60***	***60***
2	***BLUE***			***7.80***	***95.00***	***70***	***60***
3	***ORANGE***			***10.10***	***92.70***	***70***	***60***
4	***PINK***			***12.60***	***90.20***	***60***	***60***
5	***BLUE***			***14.50***	***88.30***	***45***	***40***
6	PINK			24.30	78.50	*50*	*50*
7	ORANGE			26.30	76.50	*95*	*95*
8	BLUE			29.20	73.60	*95*	*95*
9	PINK			31.20	71.60	*111*	*111*
					Total	656	631

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
**** System***	***280***	***0.3***	***MOD.***	***0.30***	***PPBPS***	***LOW PRESSURE***
Repair	351	0.3	MOD.	0.30	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

LP PPBPS TAPSHEET - Twin Creeks ph 1 Lot 8

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench Area	Number of Panels
1	*PINK*	96.5	*60*	0.156	**0.41**	180	14
2	*BLUE*	95	*60*	0.156	**0.41**	180	14
3	*ORANGE*	92.7	*60*	0.156	**0.41**	180	14
4	*PINK*	90.2	*60*	0.156	**0.41**	180	14
5	*BLUE*	88.3	*40*	0.156	**0.41**	120	9

total	**feet =**	**280**	**gal/min =**	**26.492308**
		Des. Flow	**480**	
		Pump Run=	**5.88**	
		soil LTAR	**0.3**	
		LTAR +5%	**0.315**	
		LTAR with mod.	**0.27**	
		LTAR with mod.. + 5%	**0.2835**	

.156 equals 5/32 inch hole