Gravity 25% Reduction
FOR WASTEWATER TREATMENT

Owner: SPEAR BUILDERS, INC.

Address: 109-C Williamson Road
Mooresville, NC 28115
Phone: 704-663-4050
County: Iredell
Location: ROSELAND HEIGHTS LOT #12

Source of Wastewater Flow: 3 Bedroom Single Family Residence
Estimated Gallons Per Day Flow: 360
System Flow: NA

Design Specifications

Drainfield Size: 360
Loading Rate (gpd/ft.^{2}): 0.25
Depth of Gravel in Trench: NA (25% reduction)
Gravel Size: NA (25% reduction)
Trench Depth: 26 in.
Trench Width: 36 in.
Septic Tank Size: 1000
Pump Tank Size: N/A

Estimated Supply Line Length: 10
Supply Line Diameter: 3 in. SCH 40 PVC
Supply Line Volume: 3.84
Dosing Volume: NA
Supply Manifold: DROP BOX
Supply Manifold Length: NA
Supply Manifold Volume: N/A

Recommended Float Controls: NA

Recommended Control Panel: NA

Pressure Head: NA
Friction Head: NA
Elevation Head: NA
Total Dynamic Head: NA

Threaded Union: NA
Gate Valves: NA
NA
Check Valves: NA
Anti-Siphon Hole: NA
Additional Comments: Soil suitability was performed by Rollans Soil & Environmental Services.

ROSELAND HEIGHTS LOT #12

DESIGN FLOW (gpd):	360
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.25
TOTAL AREA TRENCH BOTTOM:	1080
TOTAL LATERAL LENGTH:	360
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	360
SUPPLY LINE LENGTH:	10
TOTAL DYNAMIC HEAD:	NA
MANIFOLD SIZE:	NA
DOSING VOLUME:	NA
PUMP TANK DRAW DOWN*:	NA
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	N/A

ROSELAND HEIGHTS LOT #12

Project #: 01-1373

LAYOUT FOR 3 BEDROOM HOME

May 15, 2008

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		N/A			100.00		
TANK			N/A	N/A			
HOUSE			N/A	N/A			
INSTR. 1				N/A			
1	*ORANGE*			*N/A*	*N/A*	*62*	*60*
2	*GREEN*			*N/A*	*N/A*	*80*	*80*
3	*DARK PINK*			*N/A*	*N/A*	*64*	*60*
4	*GREEN*			*N/A*	*N/A*	*68*	*65*
5	*ORANGE*			*N/A*	*N/A*	*58*	*55*
6	*GREEN*			*N/A*	*N/A*	*42*	*40*
					Total	**374**	**360**

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	SOIL LTAR GPD/FT^2	TRENCH SYSTEM	DISTRIBUTION
** System*	*360*	*0.250*	*ACCEPT.*	*0.250*	*25% RED.*	**DROP BOXES**
Repair	N/A	N/A	N/A	N/A	N/A	N/A

Notes:

** TBM NOT REQUIRED

**All measures in feet

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

**BS, HI, and FS indicate rod readings

****Repair not required (lot recorded prior to January 1, 1983)**