FOR WASTEWATER TREATMENT

Owner: E&J DEVELOPMENT

Address: 227 Hideaway Lane
Mooresville, NC 28117
Phone: 704-201-6465
County: Iredell
Location: AUTUMN GROVE LOT #23

Source of Wastewater Flow: 4 Bedroom Single Family Residence
Estimated Gallons Per Day Flow: 480
System Flow: N/A

Design Specifications

Drainfield Size: 475
Loading Rate (gpd/ft.^{2}): 0.275
Depth of Gravel in Trench: NA (25% reduction)
Gravel Size: NA (25% reduction)
Trench Depth: 36 in.
Trench Width: 36 in.
Septic Tank Size: 1000
Pump Tank Size: n/a

Estimated Supply Line Length: 6
Supply Line Diameter: 3 in. SCH 40 PVC
Supply Line Volume: 1.04
Dosing Volume: n/a
Supply Manifold: drop box
Supply Manifold Length: n/a
Supply Manifold Volume: N/A

Recommended Float Controls: n/a
n/a
Recommended Control Panel: n/a
n/a

Pressure Head: N/A
Friction Head: N/A
Elevation Head: N/A
Total Dynamic Head: N/A

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.

AUTUMN GROVE LOT #23

DESIGN FLOW (gpd):	480
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.275
TOTAL AREA TRENCH BOTTOM:	1308
TOTAL LATERAL LENGTH:	436
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	436.3636364
SUPPLY LINE LENGTH:	6
TOTAL DYNAMIC HEAD:	N/A
MANIFOLD SIZE:	N/A
DOSING VOLUME:	N/A
PUMP TANK DRAW DOWN*:	N/A
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	N/A

AUTUMN GROVE LOT #23

Project #: 01-1043

LAYOUT FOR 4 BEDROOM HOME

November 26, 2007

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		N/A			100.00		
INSTR. 1			N/A				
HOUSE CNR				N/A	N/A		
P. TANK				N/A	N/A		
1	PINK			N/A	N/A	63	63
2	ORANGE			N/A	N/A	95	95
3	***RED***			*N/A*	*N/A*	*105*	*105*
4	***BLUE***			*N/A*	*N/A*	*106*	*106*
5	***PINK***			*N/A*	*N/A*	*115*	*115*
6	***ORANGE***			*N/A*	*N/A*	*110*	*110*
7	RED			N/A	N/A	81	81
8	BLUE			N/A	N/A	51	51
					Total	**726**	**726**

* *System*	LINE LENGTH *436*	LTAR GPD/FT² *0.275*	SYSTEM TYPE *ACCEPT.*	SOIL LTAR GPD/FT² *0.275*	TRENCH SYSTEM *25% RED.*	DISTRIBUTION **GRAVITY**
Repair	290	0.275	*MOD.*	0.275	PPBPS	**DISTRIBUTION** LOW PRESSURE

Notes:

** TBM located on angle point of lot (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