Gravity 25% Reduction
FOR WASTEWATER TREATMENT

Owner: Mark Torrence

Address: 110 Talley Ridge Drive
Troutman, NC 28166

Phone: 704.682.3640

County: Iredell

Location: BARFIELD ROAD 3.67 Acre Parcel

Source of Wastewater Flow: 4 Bedroom Single Family Residence

Estimated Gallons Per Day Flow: 480

System Flow: NA

Design Specifications

Drainfield Size: 400

Loading Rate (gpd/ft.^{2}): 0.3

Depth of Gravel in Trench: NA (25% reduction)

Gravel Size: NA (25% reduction)

Trench Depth: 24-36 in.

Trench Width: 36 in.

Septic Tank Size: 1000

Pump Tank Size: N/A

Estimated Supply Line Length: 36

Supply Line Diameter: 3 in. SCH 40 PVC

Supply Line Volume: 6.26

Dosing Volume: NA

Supply Manifold: SERIAL DISTRIBUTION

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.

BARFIELD ROAD 3.67 Acre Parcel

DESIGN FLOW (gpd):	480
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	1200
TOTAL LATERAL LENGTH:	400
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	400
SUPPLY LINE LENGTH:	36
TOTAL DYNAMIC HEAD:	NA
MANIFOLD SIZE:	NA
DOSING VOLUME:	NA
PUMP TANK DRAW DOWN*:	NA
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	N/A

BARFIELD ROAD 3.67 Acre Parcel

Project: Mark Torrence / 425 Barfield Road

LAYOUT FOR 4 BEDROOM HOME

October 2, 2012

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
1	***RED***				*N/A*	*130*	*130*
2	***ORANGE***				*N/A*	*135*	*135*
3	***BLUE***				*N/A*	*135*	*135*
4	PINK				N/A	135	135
5	RED				N/A	125	125
6	ORANGE				N/A	70	70
7	BLUE				N/A	70	70
					Total	**800**	**800**

	LINE LENGTH	LTAR GPD/FT^2	SYSTEM TYPE	SOIL LTAR GPD/FT^2	TRENCH SYSTEM	DISTRIBUTION
****System***	***400***	***0.30***	***ACCEPT.***	***0.30***	***25% RED.***	**GRAVITY**
Repair	400	0.30	*ACCEPT.*	0.30	25% RED.	**DISTRIBUTION** GRAVITY DISTRIBUTION

Notes:

** TBM not necessary (gravity system).

**All measures in feet

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

**BS, HI, and FS indicate rod readings