Gravity PPBPS
FOR WASTEWATER TREATMENT

Owner: PRIDE HOMES

Address: 578 NORMANDY RD.
Mooresville, NC 28117

Phone: 704-664-71808

County: Iredell

Location: Norman Woods Subdivision Lot #61

Source of Wastewater Flow: 4 Bedroom Single Family Residence

Estimated Daily Wastewater Production: 480 gpd

System Flow: NA

Design Specifications

Drainfield Size: 300

Loading Rate: 0.3

Depth of Gravel in Trench: NA (PPBPS)

Gravel Size: NA (PPBPS)

Trench Depth: 36 in.

Trench Width: 24 in.

Septic Tank Size: 1000

Pump Tank Size: NA

Estimated Supply Line Length: 10

Supply Line Diameter: 3 in. SCH 40 PVC

Supply Line Volume: 1.74

Dosing Volume: NA

Supply Manifold: D-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.

NORMAN WOODS SUBDIVISION LOT 61

DESIGN FLOW:	480
SOIL APPLICATION RATE:	0.3
TOTAL AREA TRENCH BOTTOM:	900
TOTAL LATERAL LENGTH:	300
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	270
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:	NA

NORMAN WOODS LOT 61

LAYOUT FOR 4 BEDROOM HOME — July 10, 2006

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	***PINK***			***N/A***	***N/A***	***50***	***50***
2	***ORANGE***			***N/A***	***N/A***	***50***	***50***
3	***BLUE***			***N/A***	***N/A***	***50***	***50***
4	***PINK***			***N/A***	***N/A***	***50***	***50***
5	***RED***			***N/A***	***N/A***	***50***	***50***
6	***ORANGE***			***N/A***	***N/A***	***50***	***50***
7	BLUE			N/A	N/A	50	50
					Total	**350**	**350**

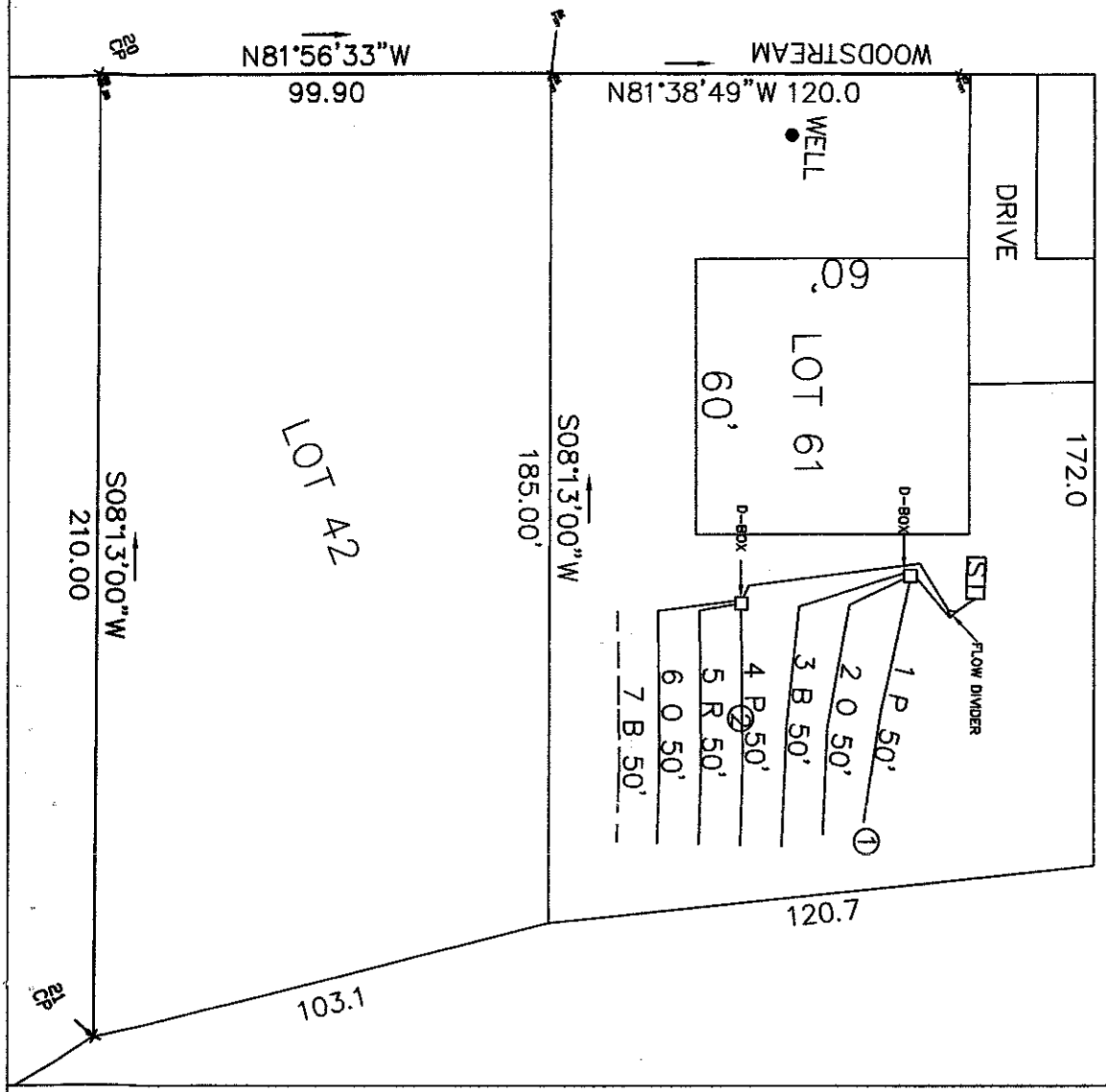
* System	LINE LENGTH *300*	LTAR GPD/FT² *0.30*	SYSTEM TYPE *MOD.*	SOIL LTAR GPD/FT² *0.30*	TRENCH SYSTEM *PPBPS*	DISTRIBUTION GRAVITY
Repair	50	0.30	*MOD.*	0.30	PPBPS	DISTRIBUTION NOT REQUIRED

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

TAPSHEET - NORMAN WOODS LOT 61

SYSTEM

Line #	Color	Elevation	Length	Hole Size	# of Panels	gpd
1	***PINK***	N/A	**50**	N/A	**12**	N/A
2	***ORANGE***	N/A	**50**	N/A	**12**	N/A
3	***BLUE***	N/A	**50**	N/A	**12**	N/A
4	***PINK***	N/A	**50**	N/A	**12**	N/A
5	***RED***	N/A	**50**	N/A	**12**	N/A
6	***ORANGE***	N/A	**50**	N/A	**12**	N/A
	total	**feet =**	**300**	**gal/min =**	N/A	
			Des. Flow	N/A		
			Pump Run=	N/A		
			soil LTAR	**0.3**		
			LTAR +5%	**0.315**		
			LTAR with ACCEPTED	**0.4**		
			LTAR with ACCEPTED + 5%	**0.42**		



LEGEND

- Areas contain soils with 24 inches or more of useable material and have potential for conventional, modified conventional and low-pressure pipe (lpp) septic systems.
- Unsuitable areas.
- System lines.
- Repair lines.
- Temporary Bench Mark (TBM)
- Well Location.

GRAPHIC SCALE

1" = 40'

40 0 40 80

FOR PRELIMINARY PLANNING PURPOSES ONLY. ALL LOTS WILL REQUIRE FINAL APPROVAL BY THE COUNTY HEALTH DEPARTMENT ON A LOT BY LOT BASIS. THIS MAP SHOULD BY USED AS A GENERAL GUIDE, SOME ADJUSTMENTS WILL BE NECESSARY IN THE FIELD DUE TO SOIL VARIABILITY AND COMPLEX TOPOGRAPHIC FEATURES. THIS MAP ONLY REFLECTS EXISTING SOIL SUITABILITY FOR ON-SITE SEPTIC TANK SYSTEMS.

PLEASE REFER TO ATTACHED SOIL REPORT FOR ADDITIONAL SITE SPECIFIC INFORMATION

ROLLANS SOIL & ENVIRONMENTAL SERVICES
2120 GRAHAM ROAD
MOUNTULLA, NC 28125
PHONE/FAX: (704) 278-0989
ASHLEY ROLLANS, NC LICENSED SOIL SCIENTIST
MOBILE: (704) 746-5046
EMAIL: ROLLANSFORTC@AOL.COM

MAP TITLE: SITE PLAN & DRAINFIELD AREAS

PROJECT NAME: PRIDE HOMES / NORMAN WOODS

LOCATION/DATE: WOODSTREAM, IREDELL COUNTY, NORTH CAROLINA, JUNE 2008

JOB # :	01-1005
FILE:	C:\JOBS\01-1005
PROJECT MGR.:	CBF
FIELD WORK:	CBF & AP
DRAWN BY:	CBF

CALCULATIONS

Location NORMAN WOODS

Project Number

Lot No: Lot 61

No. of Bedrooms	4	
Design Flow	480	$^{gal}/_{day}$
LTAR	0.3	$^{gal}/_{ft^2\ day}$
50% RED.? (YES OR NO)	YES	
Supply Line Length	10	ft.
Supply Line Volume	1.74	gal.
Required Feet of Line	270	ft.
Amount of Line from Layout	300	ft.
Gallons per Minute NA		$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Lateral Line Volume	195.9	gal.
Dosing Volume NA		gal.

Note: Dosing Volume based on70% of lateral line volume

FRICTION FACTOR INTERPOLATER
2" SCH 40 PVC

GPM	*f*
20	0.84
	-0.88
25	1.27
	-1.28
30	1.78
	-1.76
35	2.37
	-2.25
40	3.03
43.07	3.48
45	3.77
48.14	4.28
50	4.58
57.11	5.89
60	6.42

Tank Draw Down NA		*Generic Draw Down of 21 gal.per in.*
Pump Run Time NA		minutes
Elevation Head NA		ft.
Pressure Head NA		ft.
Friction Factor NA		ft./100 ft. *(From the interpolater.)*
Friction Head NA		ft.
Total Dynamic Head (+15%) NA		ft.