LP PPBPS SYSTEM
FOR WASTEWATER TREATMENT

Owner/Applicant: Corinthian/Brazos

Address: PO Box 990
Denver, NC 28037
Phone: 704 535 4080
County: Iredell
Location: WHEATFIELD LOT 59

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

Design Specifications

Drainfield Size: 200
Loading Rate (gpd/ft.^{2}): 0.3
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: NA

Estimated Supply Line Length: 0
Supply Line Diameter: 3 in. SCH 40 PVC
Supply Line Volume: 0.00
Dosing Volume: NA
Supply Manifold: DISTRIBUTION BOX
Supply Manifold Length: N/A
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

Check Valves: NA
Anti-Siphon Hole: NA
Additional Comments: Soil suitability was performed by S&EC and Iredell County.

WHEATFIELD LOT 59
LP PPBPS

DESIGN FLOW (gpd):	360
SOIL APPLICATION RATE (gpd/ft.^{2}):	0.3
TOTAL AREA TRENCH BOTTOM:	600
TOTAL LATERAL LENGTH:	200
NUMBER OF FIELDS:	1
LATERAL LENGTH REQUIRED PER FIELD:	200
SUPPLY LINE LENGTH:	0
TOTAL DYNAMIC HEAD:	NA
MANIFOLD SIZE:	N/A
DOSING VOLUME:	NA
PUMP TANK DRAW DOWN*:	NA
SEPTIC TANK SIZE:	1000
PUMP TANK SIZE:	NA

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

WHEATFIELD LOT 59

Project #: 01-1612

LAYOUT FOR 3 BEDROOM HOME

April 21, 2010

LINE #	FLAG COLOR	BS	HI	FS	ELEVATION	FLAGGED LINE LENGTH	DESIGN LINE LENGTH
TBM		NA			NA		
INSTR. 1			NA				
HOUSE CNR				NA	NA		
P. TANK				NA	NA		
1	***PINK***			***NA***	***NA***	***40***	***40***
2	***PINK***			***NA***	***NA***	***40***	***40***
3	***ORANGE***			***NA***	***NA***	***40***	***40***
4	***ORANGE***			***NA***	***NA***	***40***	***40***
5	***BLUE***			***NA***	***NA***	***40***	***40***
6	BLUE			NA	NA	44	44
7	PINK			NA	NA	88	88
8	BLUE			NA	NA	60	60
9	ORANGE			NA	NA	20	20
					Total	412	412

	LINE LENGTH	LTAR GPD/FT2	SYSTEM TYPE	SOIL LTAR GPD/FT2	TRENCH SYSTEM	DISTRIBUTION
** System*	***200***	***0.3***	***MOD.***	***0.3***	***PPBPS***	***GRAVITY DISTRIBUTION***
Repair	212	0.3	MOD.	0.3	PPBPS	LOW PRESSURE

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

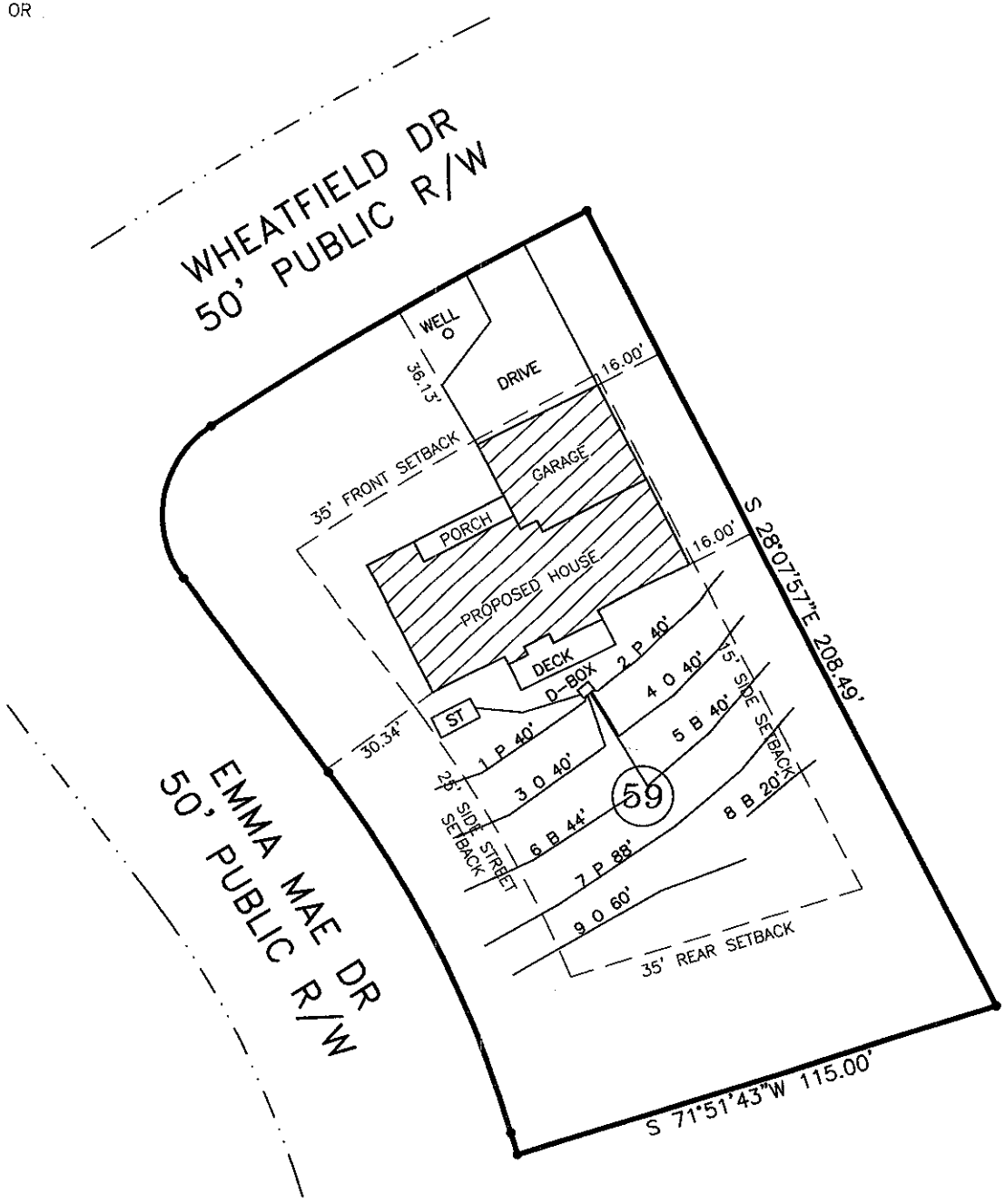
PPBPS TAPSHEET -WHEATFIELD LOT 59

SYSTEM

Line #	Color	Elevation	Length	Hole Size	Flow/hole	Trench Area	Number of Panels
1	***PINK***	n/a	***40***	n/a	n/a	120	9
2	***PINK***	n/a	***40***	n/a	n/a	120	9
3	***ORANGE***	n/a	***40***	n/a	n/a	120	9
4	***ORANGE***	n/a	***40***	n/a	n/a	120	9
5	***BLUE***	n/a	***40***	n/a	n/a	120	9
							45

total	feet =	200	gal/min =	n/a	
		Des. Flow	360		
		Pump Run=	n/a		
		soil LTAR	0.3		
		LTAR +5%	0.315		
		LTAR with mod.	0.6		
		LTAR with mod.. + 5%	0.63		

CORDED RIGHTS OF WAYS OR EASEMENTS
OBSERVED
R TO VERIFY ALL SETBACKS AND ZONING
LATIONS PRIOR TO ANY PLANNING OR
TRUCTION.



CALCULATIONS

Location Wheatfield

Project Number 01-1612

Lot No: 59

No. of Bedrooms	3	
Design Flow	360	$^{gal}/_{day}$
LTAR	0.3	$^{gal}/_{ft^2\ day}$
PPBPS? (YES OR NO)	YES	
Supply Line Length		ft.
Supply Line Volume	0	gal.
Required Feet of Line	200	ft.
Amount of Line from Layout	200	ft.
Gallons per Minute	NA	$^{gal}/_{min}$
Required Septic Tank Capacity	1000	gal.
Minimum Standard Tank Size	1000	
Panel Volume	3.6	gal.
# of Panels	0	
Dosing Volume	NA	gal.

Note: Dosing Volume based on 33% of # of panels times 3.6 gal/panel

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.

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