



PROJECT NO. 11,118.S2	SCALE 1" = 40'	SHEET TITLE: SEPTIC SYSTEM LAYOUT
PROJECT MGR. DS	FIELD WORK DS, LS	PROJECT NAME: HIGHWAY 210 DEVELOPMENT, LLC - GWEN OAKS LOT 4 - HARNETT COUNTY, NORTH CAROLINA MARCH, 2009
DRAWN BY DS		



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GWEN OAKS LOT 4

Project No. 11,118.S1

LAYOUT FOR 3 BEDROOM HOME

MARCH, 2009

<u>LINE #</u>	<u>FLAG</u> <u>COLOR</u>	<u>BS (ft)</u>	<u>HI (ft)</u>	<u>FS (ft)</u>	<u>ELEVATION (ft)</u>	<u>FLAGGED</u> <u>LINE LENGTH (ft)</u>	<u>DESIGN</u> <u>LINE LENGTH (ft)</u>
TBM		11.9			100.00		
INSTR. 1			111.90				
1	BLUE			2.40	109.50	81	80
2	RED			3.20	108.70	115	100
3	ORANGE			4.10	107.80	61	60
4	YELLOW			5.20	106.70	110	60
5	PINK			6.00	105.90	62	60
6	BLUE			6.90	105.00	45	-
Total						474	360

	<u>LINE</u> <u>LENGTH (ft)</u>	<u>LTAR</u> <u>GPD/FT²</u>	<u>SYSTEM</u> <u>TYPE</u>	<u>SOIL</u> <u>LTAR</u> <u>GPD/FT²</u>	<u>INNOVATIVE</u> <u>SYSTEM</u>	<u>DISTRIBUTION</u> <u>PUMP TO</u> <u>D-BOX</u> <u>PRESSURE</u> <u>MANIFOLD</u>
System	180	0.50	INNOV.	0.50	EZ-Flow	
Repair	180	0.50	Innov.	0.50	EZ-Flow	

- Notes:**
- ** TBM AT BASE OF MAILBOX POST ON LOT 4
 - **TBM is assumed to be 100'.
 - **All measures in feet.
 - **Nitrification lines are demonstrated on contour via colored pin flags.
 - **BS, FS indicate rod readings.

GWEN OAKS LOT 4
Project No. 11,118.S1
REPAIR TAP CHART

Line #	Color	Field Elev. (ft)	Length (ft)	Hole Size (in)	Flow/Tap (gpm)	gpd	Trench Area (sq ft)	Line LTAR (gpd/sq ft)
1	BLUE	109.50	80	1/2" SCH. 80	5.48	120.00	240	0.653
2	RED	108.70	100	1/2" SCH. 40	7.11	155.69	300	0.678

total feet = 180 gal/min = 12.59

Des. Flow 360 gpd
Pump Run= 28.59 min
soil LTAR 0.50 gpd/sq ft
(ltar +5%) 0.525 gpd/sq ft
LTAR with INNOV. 0.666666667 gpd/sq ft
LTAR with INNOV. + 5% 0.7 gpd/sq ft

100% Dose Volume 117.14 gal
Percent Dose Volume 85%
Total 99.57 gal

Pump Run Time 7.91 min