

3716 Highland Creek

Project No. 1886-1

<u>LINE #</u>	<u>FLAG COLOR</u>	<u>BS (ft)</u>	<u>HI (ft)</u>	<u>FS (ft)</u>	<u>ELEVATION (ft)</u>	<u>FLAGGED LINE LENGTH (ft)</u>	<u>DESIGN LINE LENGTH (ft)</u>
TBM		2.05			100.00		
INSTR. 1			102.05				
1	Yellow			3.30	98.75	31	0
2	White			4.00	98.05	41	0
3	Red			4.50	97.55	53	50
4	Blue			5.25	96.80	65	60
5	White			5.90	96.15	57	50
6	Red			6.50	95.55	65	60
7	Pink			7.55	94.50	68	60
8	Blue			8.50	93.55	73	70
9	White	6.2	98.45	9.80	92.25	77	77
10	Red			7.60	90.85	87	87
11	Pink			8.20	90.25	86	86
12	Blue			8.90	89.55	86	86
Total						789	686

<u>System</u>	<u>DESIGN LINE LENGTH (ft)</u>	<u>SOIL LTAR GPD/FT²</u>	<u>SYSTEM TYPE</u>	<u>DESIGN LTAR* GPD/FT²</u>	<u>DISTRIBUTION MEDIA</u>	<u>DISTRIBUTION METHOD</u>	<u>DESIGN FLOW (GPD)</u>
	336	0.30	Accepted	-	T&J Panel	Gravity to D-Box	600
Repair	350	0.30	Accepted	-	T&J Panel	Gravity to D-Box	600
							5 Bedroom

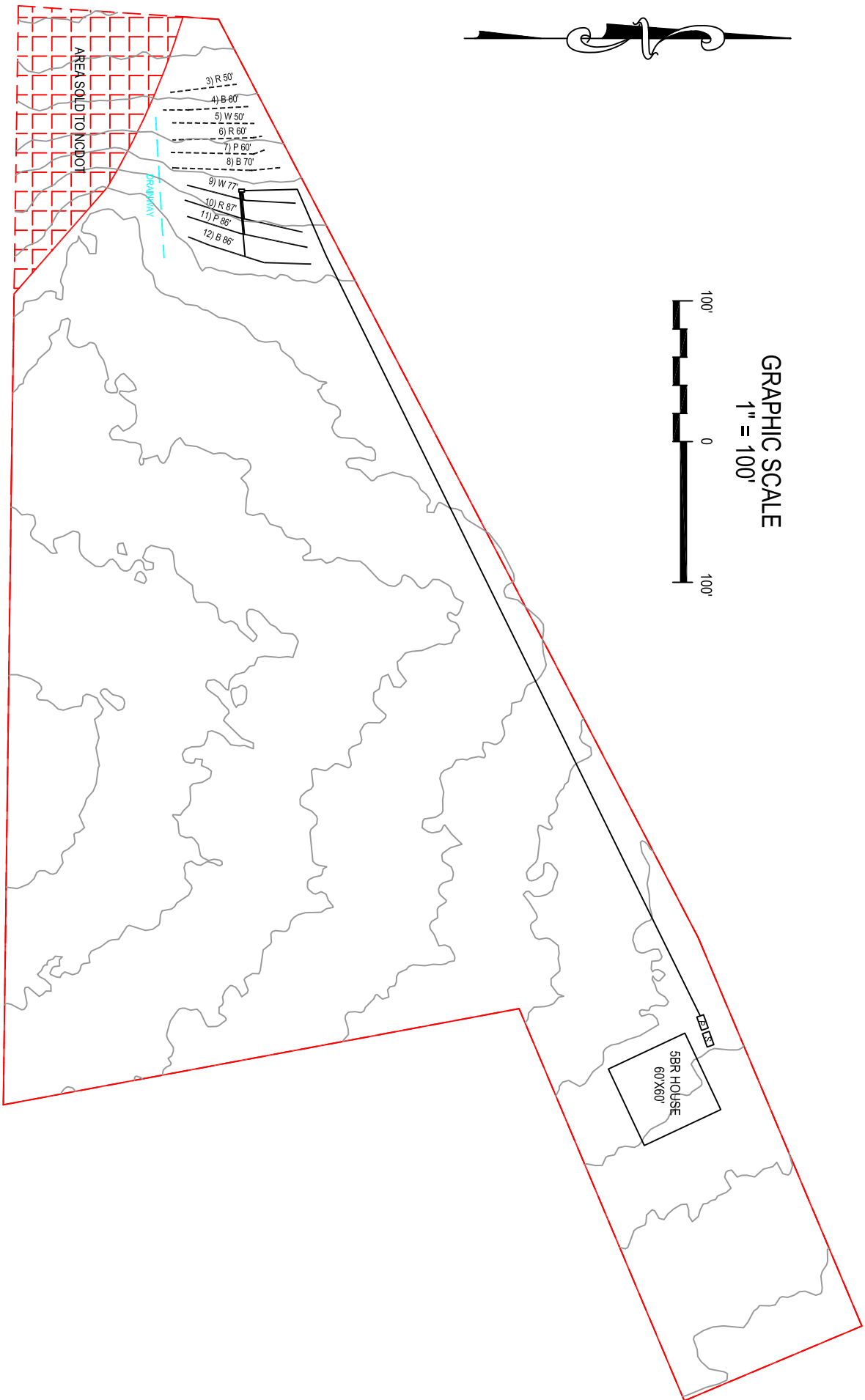
- Notes:**
- 1) TBM on ground AT TREE.
 - 2) TBM is assumed to be 100.00'.
 - 3) All measures in feet.
 - 4) Nitrification lines are demonstrated on contour via colored pin flags.
 - 5) BS, FS indicate rod readings.
- * **Design LTAR = Design Flow / ((Design Line Length x Trench Width) / (1-%Reduction))**

**3716 Highland Creek
Project No. 1886-1
SYSTEM 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)	Number of Panels
9	White	92.25	77	1/2" SCH. 80	5.48	122.62	231	0.531	17
10	Red	90.85	87	1/2" SCH. 40	7.11	159.13	261	0.610	20
11	Pink	90.25	86	1/2" SCH. 40	7.11	159.13	258	0.617	20
12	Blue	89.55	86	1/2" SCH. 40	7.11	159.13	258	0.617	20
								Total	77

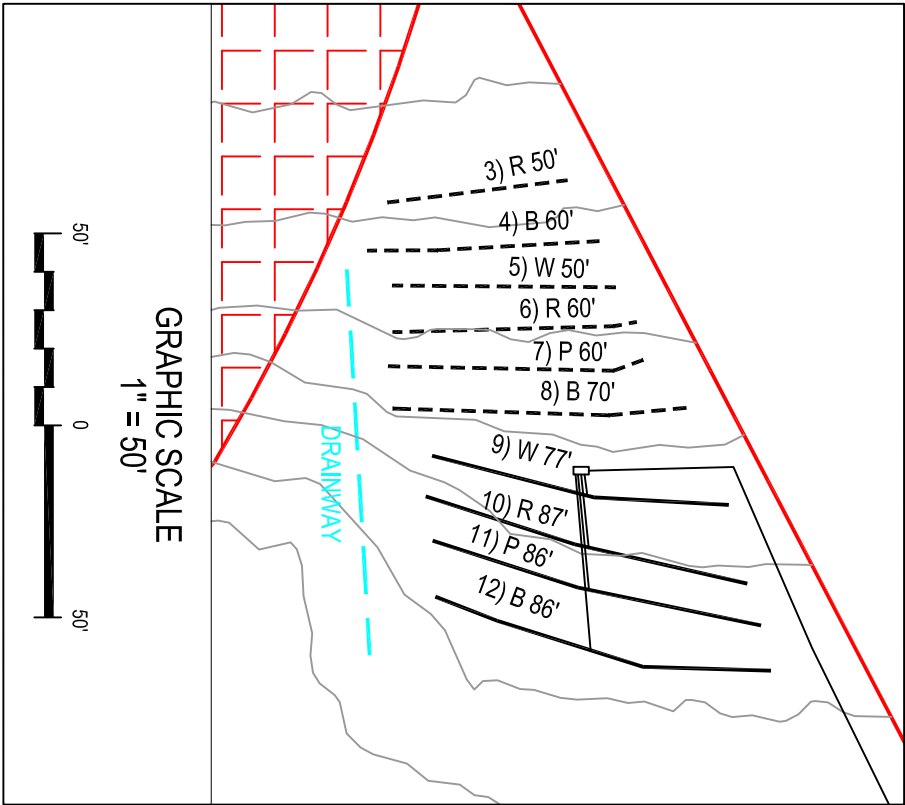
total feet = 336 gal/min = 26.82

Des. Flow	600	gpd
Pump Run=	22.37	min
soil LTAR	0.30	gpd/sq ft
(ltar +5%)	0.315	gpd/sq ft
INNOV. Product Reduction	50%	
LTAR with INNOV.	0.60	gpd/sq ft
LTAR with INNOV. + 5%	0.630	gpd/sq ft
Dose Per Panel	3.6	gal/panel
100% Dose Volume	277.20	gal
Percent Dose Volume	100%	
Total	277.20	gal
Pump Run Time	10.34	min



LEGEND

	SYSTEM LINE
	REPAIR LINE
	SEPTIC TANK
	PUMP TANK



NOTES:

- 1) SITE DATA TO INCLUDE PROPERTY BOUNDARIES, STRUCTURE LOCATION, UTILITIES, ROADS, AND OTHER SITE FEATURES WERE PROVIDED BY WAKE COUNTY GIS AND ARE SHOWN TO DISPLAY GENERAL SITE CONDITIONS.
- 2) ALL SEPTIC SYSTEM COMPONENTS TO INCLUDE TANKS, PUMPS, MANIFOLDS, AND SYSTEM AND REPAIR LINES HAVE BEEN GPS LOCATED BY SOIL SERVICES, PLLC. ALL LOCATIONS, ELEVATIONS, AND DIMENSIONS ARE APPROXIMATE AND AS SUCH NO SPECIFIC ACCURACY EITHER VERTICAL OR HORIZONTAL IS IMPLIED.
- 3) PROPERTY AND EASEMENT BOUNDARIES SHOWN ON THIS SITE SKETCH ARE APPROXIMATE AND ARE NOT INTENDED FOR LOCATING PROPERTY OR IDENTIFYING PROPERTY OR EASEMENT CORNERS. THIS IS NOT A SURVEY.



Soil Services, PLLC

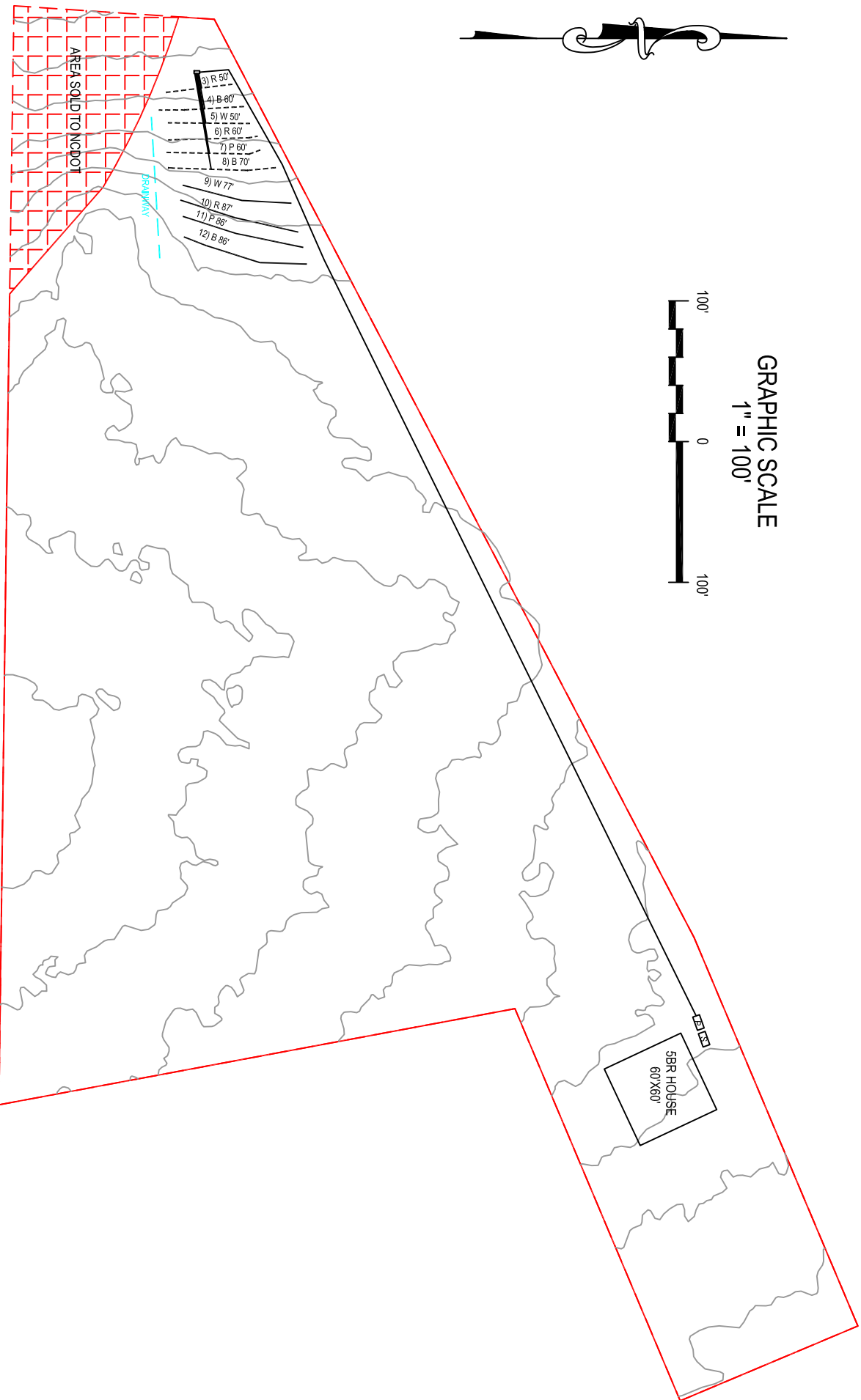
PO BOX 91115, RALEIGH, NC 27675
OFFICE: (919) 745-1928 FAX: (919) 375-3969
WWW.SOILSERVICES.US

Sheet Title: SEPTIC SYSTEM SITE PLAN		Project No.: 1886-1	
Project: 3716 HIGHLAND CREEK DR		Project Manager: SM	Drawn: SM
Location: WAKE CO., NC		Scale: AS SHOWN	Field Work: SM
Client: ERIN MONTGOMERY		Sheet No.: 1 of 1	

**3716 Highland Creek
Project No. 1886-1
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)	Number of Panels
3	Red	97.55	50	1/2" SCH. 80	5.48	83.44	150	0.556	12
4	Blue	96.80	60	1/2" SCH. 40	7.11	108.28	180	0.602	14
5	White	96.15	50	1/2" SCH. 80	5.48	83.44	150	0.556	12
6	Red	95.55	60	1/2" SCH. 40	7.11	108.28	180	0.602	14
7	Pink	94.50	60	1/2" SCH. 40	7.11	108.28	180	0.602	14
8	Blue	93.55	70	1/2" SCH. 40	7.11	108.28	210	0.516	16
Total									82

total	feet =	350	gal/min =	39.41
	Des. Flow	600	gpd	
	Pump Run=	15.22	min	
	soil LTAR	0.30	gpd/sq ft	
	(ltar +5%)	0.315	gpd/sq ft	
	INNOV. Product Reduction	50%		
	LTAR with INNOV.	0.6	gpd/sq ft	
	LTAR with INNOV. + 5%	0.63	gpd/sq ft	
	Does Per Panel	3.6	gal/panel	
	100% Dose Volume	295.20	gal	
	Percent Dose Volume	100%		
	Total	295.20	gal	
	Pump Run Time	7.49	min	



GRAPHIC SCALE
1" = 100'



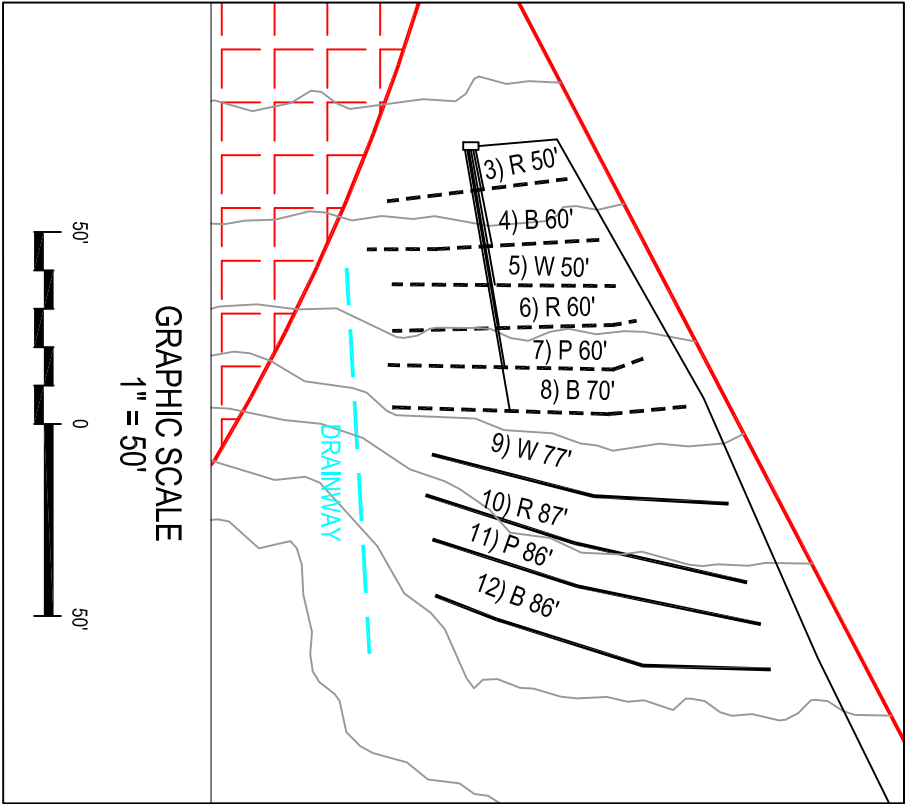
LEGEND

SYSTEM LINE

REPAIR LINE

SEPTIC TANK

PUMP TANK

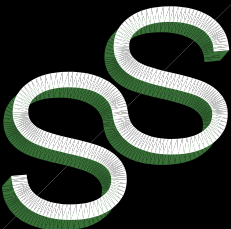


GRAPHIC SCALE
1" = 50'



NOTES:

- 1) SITE DATA TO INCLUDE PROPERTY BOUNDARIES, STRUCTURE LOCATION, UTILITIES, ROADS, AND OTHER SITE FEATURES WERE PROVIDED BY WAKE COUNTY GIS AND ARE SHOWN TO DISPLAY GENERAL SITE CONDITIONS.
- 2) ALL SEPTIC SYSTEM COMPONENTS TO INCLUDE TANKS, PUMPS, MANIFOLDS, AND SYSTEM AND REPAIR LINES HAVE BEEN GPS LOCATED BY SOIL SERVICES, PLLC. ALL LOCATIONS, ELEVATIONS, AND DIMENSIONS ARE APPROXIMATE AND AS SUCH NO SPECIFIC ACCURACY EITHER VERTICAL OR HORIZONTAL IS IMPLIED.
- 3) PROPERTY AND EASEMENT BOUNDARIES SHOWN ON THIS SITE SKETCH ARE APPROXIMATE AND ARE NOT INTENDED FOR LOCATING PROPERTY OR IDENTIFYING PROPERTY OR EASEMENT CORNERS. THIS IS NOT A SURVEY.



SOIL SERVICES, PLLC

PO BOX 91115, RALEIGH, NC 27675
OFFICE: (919) 745-1928 FAX: (919) 375-3969
WWW.SOILSERVICES.US

Sheet Title:

SEPTIC REPAIR SITE PLAN

Project:

3716 HIGHLAND CREEK DR

Location:

WAKE CO., NC

Client:

ERIN MONTGOMERY

Project No.:

1886-1

Project Manager:

SM

Drawn:

SM

Scale:

AS SHOWN

Field Work:

SM

Sheet No.:

1 of 1