

3028 Mt Vernon Church Rd

Project No. 2169-1

<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		3.30			100.00		
INSTR. 1			103.30				
1	Red			4.80	98.50	58	0
2	Blue			5.00	98.30	76	75
3	White			5.20	98.10	96	95
4	Pink			5.50	97.80	119	115
5	Yellow			5.85	97.45	145	145
6	Red			6.10	97.20	97	95
7	Blue			6.45	96.85	90	90
8	White			6.70	96.60	89	85
9	Pink			7.05	96.25	87	85
10	Yellow			7.35	95.95	85	85
11	Red			7.70	95.60	83	80
12	Blue			8.15	95.15	81	80
13	White			8.55	94.75	80	0
Total						1186	1030

<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>
System	525	0.30	Accepted	0.29	EZ-Flow	Pressure Manifold	600
Repair	505	0.30	Accepted	0.30	EZ-Flow	Pressure Manifold	600

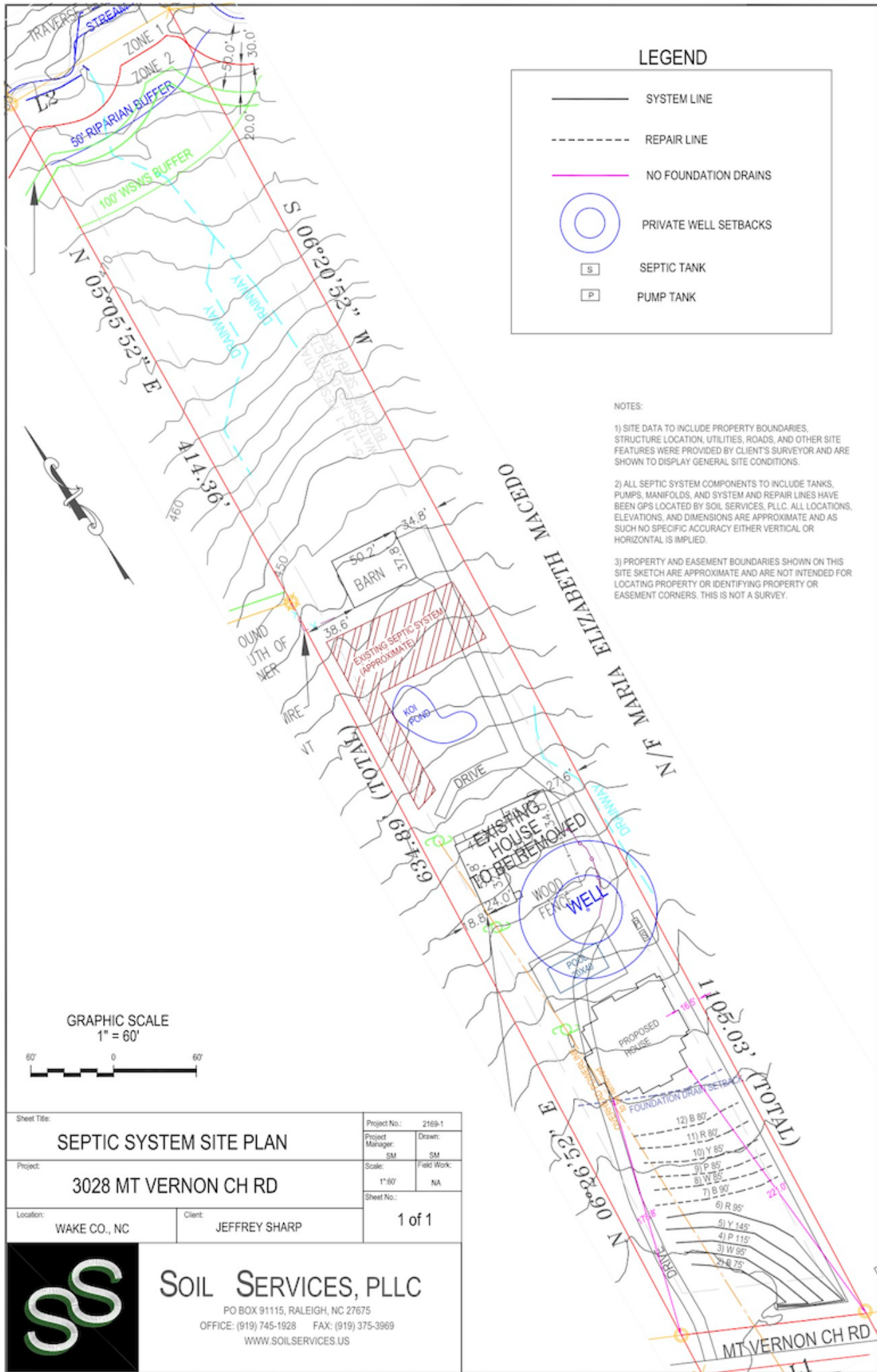
- Notes:**
- 1) TBM on ground AT TREE.
 - 2) TBM is assumed to be 100.00'.
 - 3) All measures in feet.
 - 4) Nitrification lines are demonstrated on contour via colored pin flags.
 - 5) BS, FS indicate rod readings.
- * Design LTAR = Design Flow / ((Design Line Length x Trench Width) / (1-%Reduction))

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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)
2	Blue	98.30	75	1/2" SCH. 80	5.48	77.72	225	0.345
3	White	98.10	95	1/2" SCH. 40	7.11	100.86	285	0.354
4	Pink	97.80	115	3/4" SCH. 80	10.12	143.54	345	0.416
5	Yellow	97.45	145	3/4" SCH. 40	12.48	177.01	435	0.407
6	Red	97.20	95	1/2" SCH. 40	7.11	100.86	285	0.354

total feet = 525 gal/min = 42.31

Des. Flow	600	gpd
Pump Run=	14.18	min
soil LTAR	0.30	gpd/sq ft
(ltar +5%)	0.315	gpd/sq ft
INNOV. Product Reduction	25%	
LTAR with INNOV.	0.40	gpd/sq ft
LTAR with INNOV. + 5%	0.420	gpd/sq ft
100% Dose Volume	341.65	gal
Percent Dose Volume	70%	
Total	239.15	gal
Pump Run Time	5.65	min



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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)
7	Blue	96.85	90	1/2" SCH. 80	5.48	100.00	270	0.370
8	White	96.60	85	1/2" SCH. 80	5.48	100.00	255	0.392
9	Pink	96.25	85	1/2" SCH. 80	5.48	100.00	255	0.392
10	Yellow	95.95	85	1/2" SCH. 80	5.48	100.00	255	0.392
11	Red	95.60	80	1/2" SCH. 80	5.48	100.00	240	0.417
12	Blue	95.15	80	1/2" SCH. 80	5.48	100.00	240	0.417

total feet = 505 gal/min = 32.88

Des. Flow	600	gpd
Pump Run=	18.25	min
soil LTAR	0.30	gpd/sq ft
(ltar +5%)	0.315	gpd/sq ft
INNOV. Product Reduction	25%	
LTAR with INNOV.	0.4	gpd/sq ft
LTAR with INNOV. + 5%	0.42	gpd/sq ft
100% Dose Volume	328.63	gal
Percent Dose Volume	66%	
Total	216.90	gal
Pump Run Time	6.60	min

