# Marietta Lot 1

Project No. 5-1474s1
Layout for 3 Bedroom Home

| LINE # | FLAG COLOR | BS | HI | FS | ELEVATION | FLAGGED Length | Designed Length |
|---|---|---|---|---|---|---|---|
| | | | | | 100.0 | | |
| INSTR. 1 | | | 100.0 | | | | |
| | | | System | | | | |
| TBM | | | 9.8 | | | | |
| **Blue** | | | | **2.00** | **98.0** | **68** | 65 |
| **Pink** | | | | **4.40** | **95.6** | 75 | 70 |
| **Red (A)** | | | | **5.80** | **94.2** | **65** | 65 |
| | | | | | Subtotal | **208** | **200** |
| | | | Repair | | 100.0 | | |
| Red(B) | | | | 5.80 | 94.2 | 40 | |
| Orange | | | | 7.70 | 92.3 | 70 | |
| Yellow | | | | 9.20 | 90.8 | 61 | |
| Blue | | | | 11.20 | 88.8 | 63 | |
| | | | | | Subtotal | **234** | |

| | LINE LENGTH | LTAR GPD/FT$^2$ | SYSTEM TYPE | INNOVATIVE TYPE | DISTRIBUTN |
|---|---|---|---|---|---|
| * System | 200 | 0.30 | PPBPS | NA | LPP |
| Repair | 234 | 0.30 | PPBPS | NA | LPP |

**Notes:**

** TBM of system top of power cable stake
**TBM is assumed to be 100'
**All measures in feet
**Nitrification lines are demonstrated on contour via colored pin flags
**BS and FS indicate rod readings
****System in Bold**

**Pump Design Sheet** **For:** Kent Salyer **By:** Daniel McNeil

| | | | |
|---|---|---|---|
| System Length (linear ft) | 200 | Total Flow (gpm) | 23.09 |
| # of 16in Panels | 46 | | |
| # of Lines | 3 | | |
| Hole Size (in) (5/32=.156 3/16=.118) | 0.156 | Friction Loss (ft) - Supply Line | 0.69 |
| Drainfield Pipe Size (in) | 1.25 | Friction Loss (ft) - Valve Box | 2.40 |
| Supply Line Size (in) | 2 | Friction Loss (ft) - Drain Lines | 7.61 |
| Supply Line Length (ft) | 45 | | |
| Pressure Head (ft) | 2.5 | Friction Loss (ft) - Total | 10.71 |
| Elevation Head (ft) | 10 | | |
| | | Total Dynamic Head (ft) | 31.71 |

When choosing a pump for this system, you will need a pump that can deliver:

**23.09** GPM against **31.71** FT of Total Dynamic Head

| | |
|---|---|
| Dose Volume (gal) | 166.15 |
| Pump Run Time (min) | 7.20 |
| Tank Drawdown (in) | 7.91 |

Property ID#: 132174
County: Iredell

# LEGEND

*use the following standard abbreviations*

| LANDSCAPE POSITION | GROUP | SOIL TEXTURE | CONVENTIONAL .1955 LTAR* | LPP .1957 LTAR* | MINERALOGY/ CONSISTENCE | STRUCTURE |
|---|---|---|---|---|---|---|
| CC (Concave Slope) | I | S (Sand) | 1.2 - 0.8 | 0.6 - 0.4 | NEXP (Non-expansive) | G (Single Grain) |
| CV (Convex Slope) | | LS (Loamy Sand) | | | SEXP (Slightly Expansive) | M (Massive) |
| D (Drainage Way) | | | | | EXP (Expansive) | CR (Crumb) |
| DS (Debris Slump) | II | SL (Sandy Loam) | 0.8 - 0.6 | 0.4 - 0.3 | | GR (Granular) |
| FP (Flood Plain) | | L (Loam) | | | | SBK (Subangular Blocky) |
| FS (Foot Slope) | | | | | | ABK (Angular Blocky) |
| H (Head Slope) | III | Si (Silt) | 0.6 - 0.3 | 0.3 - 0.15 | | PL (Platy) |
| L (Linear Slope) | | SiCL (Silty Clay Loam) | | | | PR (Prismatic) |
| N (Nose Slope) | | CL (Clay Loam) | | | | |
| R (Ridge) | | SCL (Sandy Clay Loam) | | | **MOIST** | **WET** |
| S (Shoulder Slope) | | SiL (Silt Loam) | | | | |
| T (Terrace) | | | | | VFR (Very Friable) | NS (Non-sticky) |
| | IV | SC (Sandy Clay) | 0.4 - 0.1 | 0.2 - 0.05 | FR (Friable) | SS (Slightly Sticky) |
| | | SiC (Silty Clay) | | | FI (Firm) | S (Sticky) |
| | | C (Clay) | | | VFI (Very Firm v. Very Sticky) | VS (Very Sticky) |
| | | O (Organic) | None | None | EFI (Extremely Firm) | NP (Non-plastic) |
| | | | | | | SP (Slightly Plastic) |
| | | | | | | P (Plastic) |
| | | | | | | VP (Very Plastic) |

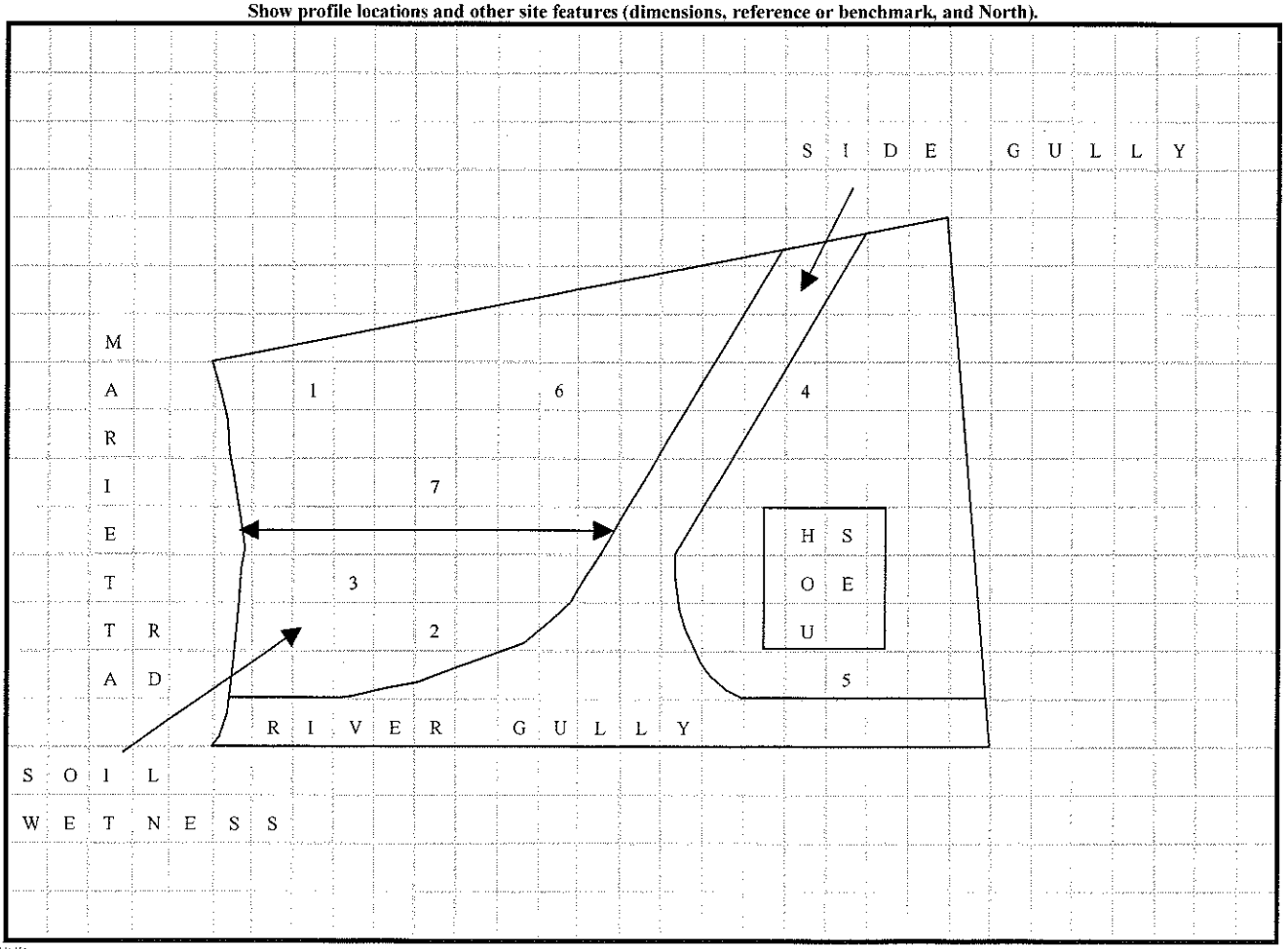
*Adjust LTAR due to depth, consistence, structure, soil wetness, landscape, position, wastewater flow and quality.

***NOTES***

| | |
|---|---|
| *HORIZON DEPTH* | In inches below natural soil surface |
| *DEPTH OF FILL* | In inches from land surface |
| *RESTRICTIVE HORIZON* | Thickness and depth from land surface |
| *SAPROLITE* | S(suitable) or U(unsuitable) |
| *SOIL WETNESS* | Inches from land surface to free water or inches from land surface to soil colors with chroma 2 or less - record Munsell color chip designation |
| *CLASSIFICATION* | S (Suitable), PS (Provisionally Suitable), or U (Unsuitable) |

Evaluation of saprolite shall be by pits.
Long-term Acceptance Rate (LTAR): gal/day/ft$^2$

**Show profile locations and other site features (dimensions, reference or benchmark, and North).**




DENR (######)
Review (#####)