

**3642,3646 LAURA LANE-3705 RONNY WAY**  
**Level III Soil Survey: Summit Soil Consulting Inc.**  
**HALL COUNTY**

NRCS SERIES	Depth to ROCK inches	Depth to WATER inches	TRENCH DEPTH inches	PERC RATE ESTIMATED min/in	DOH CODE
Bethlehem	55-60	>60	18-36	65	K, Note 7
Bethlehem-H	25-30	>30	6-15	00.15 gal/d/sqft	H
Madison	>72	>72	24-45	45	A
Rion	>72	>72	24-45	45	A

Note: - Hard rock is defined as material impenetrable by hand auger, soft saprolite excluded  
 - Depth to water is defined as the depth to first indication of seasonal saturation

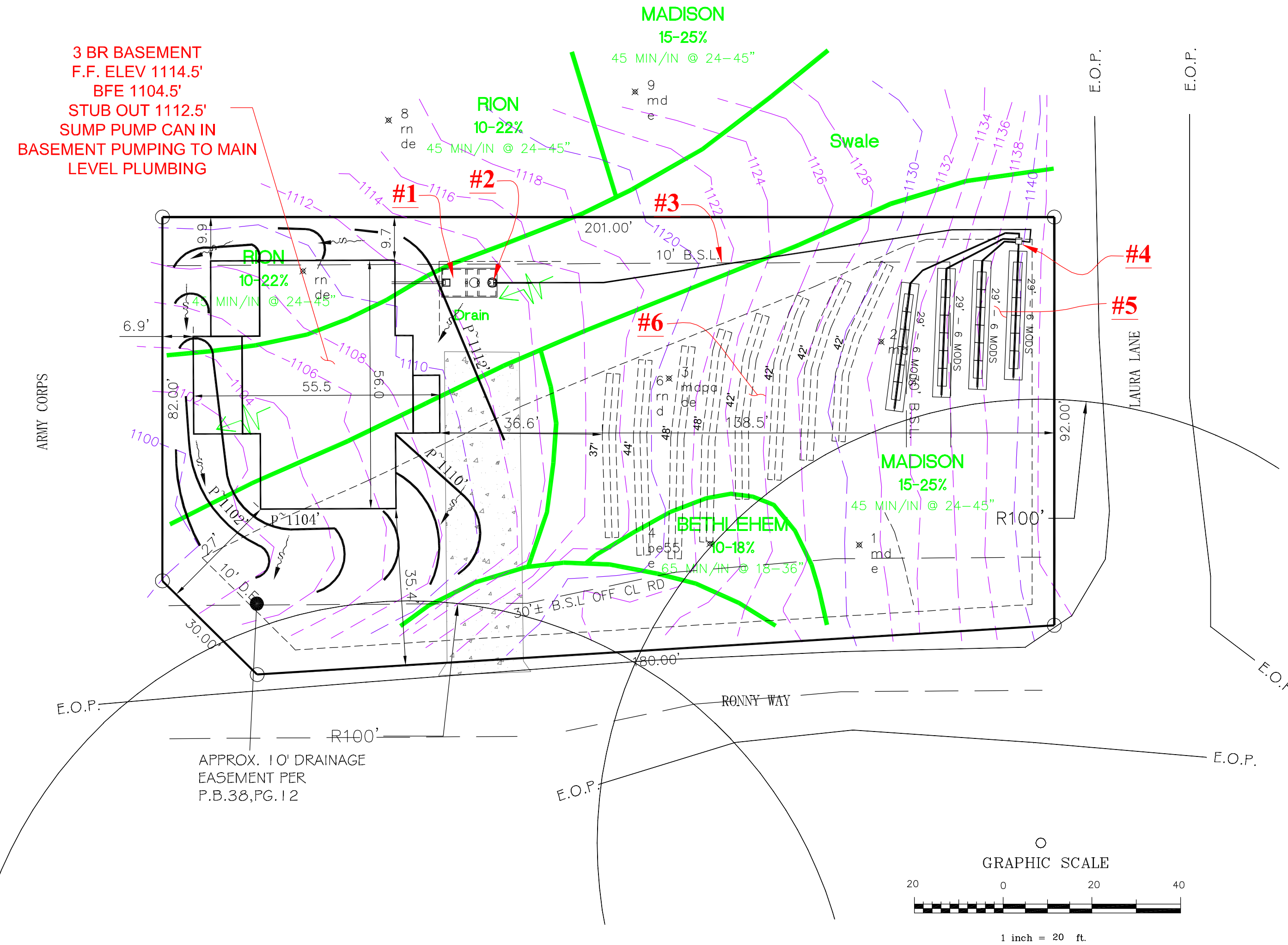
**SUITABILITY CODES:**

- A: Soils should have ability to function as an absorption field with proper design, installation, and maintenance.
- H: Test pits dug with a back-hoe may be considered to determine suitability due to multiple shallow rock refusals. Rock refusal was encountered at 25-30 inches with a hand auger. A shallow installation with an alternative system may be considered. Septic system in first is recommended on these soils. Hand auger borings are limited in rocky conditions.
- K: These soils generally have sufficient depth of soil material over bedrock to accommodate a septic system, however, inclusions of rock with insufficient depth may occur. Septic system in first may be considered. Removing more than 1ft. of natural soil in these areas, will require the area to be reevaluated.

**GENERAL NOTES AND COMMENTS:**

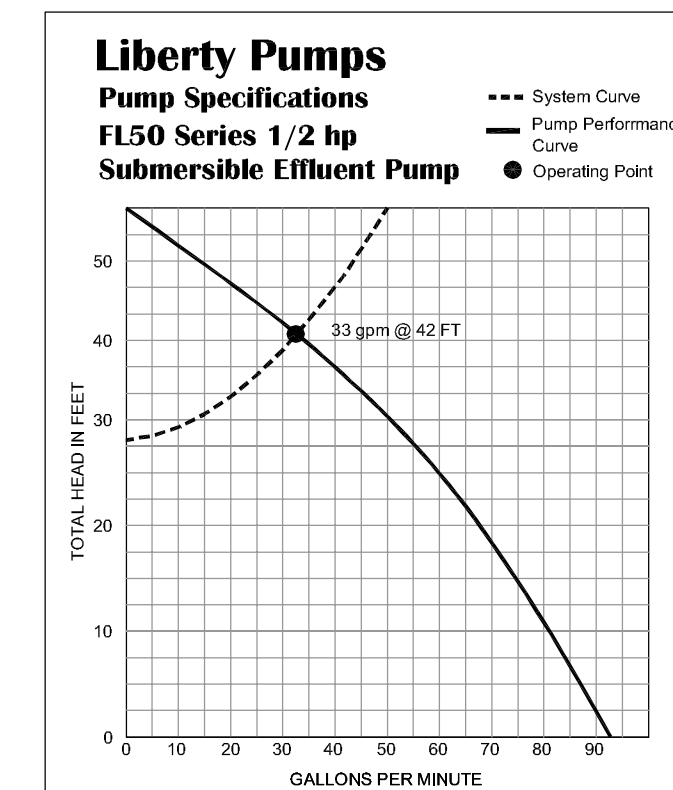
- 1) Base Map Source: Plat from client and Hall Co GIS.
- 2) All borings and features on soil map were located using differentially corrected GPS Data.
- 3) Lines delineating soil unit boundaries on map should not be considered exact. Instead, they should be considered as transitional areas separating units of soils with similar physical characteristics and utilization.
- 4) Alterations, during construction or prior to drain field installation, that result in significant changes to the natural soil profile (i.e. filling or grading >18"), render the specifications of those soils inapplicable. Those soils should be reevaluated to determine suitability prior to drain field installation.
- 5) When trench lines are dug by installer, every precaution should be taken to ensure that there is minimal disturbance to the soil on the trench walls. Smearing of trench walls or improper installation can lead to system failure. Sides of wall should be picked if possible. Trench bottom should be raked. Drain field should be installed in dry conditions to preserve structure, prevent smearing and clogging.
- 6) Down-spouts and drainage grading should be diverted away from drain-field area to prevent saturation.
- 7) Rock inclusions may exist that are not delineated by a level 3 soil survey.
- 8) Installation depths are based on natural soil and should be adjusted if fill is encountered.
- 9) At Level 3 survey intensity, soil unit lines do not delineate exact soil series boundaries. These lines should be considered transitional areas of soil series or utilization changes. Level 3 survey intensity provides approximately 1/3 acre resolution. Units of suitable soils that border or are inclusions in units of marginal or unsuitable soil may need to be more intensely surveyed to better delineate soil unit boundaries.
- 10) Line reducing septic systems and effluent composition may have an effect on septic system performance and longevity.
- 11) Drain field area should be protected from construction traffic and building material placement.

## Administrative Variance Required for 10' and 30' BSL



**SYSTEM DESIGN DATA AND CALCULATIONS:**

- \*3 bedrooms x 150 GPD/BR = 450 GPD.
- \*With garbage grinder.
- #1: Pretreatment -
  - \*Standard 3000 gallon precast concrete tank with three compartments, 2000 gallon baffled septic area (1333/667 split) and a 1000 gallon pump tank area. Standard approved 4" effluent filter on septic tank outlet. Risers to grade and water-tight.
- #2: Dosing -
  - \*1000 gallon dose tank compartment with 1 adapter lid and risers to ground/surface level. Check valve, Union & Cut-off valve to be inside pump chamber w/nylon rope or chain to lift out pump.
  - \*Approx. 31 ft Static Head.
  - \*Approx. 130 LF of 1.5 PVC force main with approx. 11ft friction head @ 33gpm.
  - \*Design is for a 1/2hp Liberty Model FL50 Effluent Pump controlled by an SJE-Rhombus IFS Control Panel.
  - \*Max. Dosing Volume = 3.5 gallons per mod x 24 mod = 84 gallons max.
  - \*Dosing = 75 gallons per dose, dose on demand.
  - \*Pump will operate at approx. 33gpm @ approx. 42 ft TDH, pump dose volume shall be verified with draw down test.
- #3: Approx. 130 LF of 1.5 PVC force main
- #4: Standard approved Distribution Box - min. 4 outlets
- #5: Primary Absorption Field -
  - \*Soil Series: MADISON (see soils study).
  - \*Perc Rate = 45 minutes per inch.
  - \*Design is for a 4 ft Eljen distribution trench system.
  - \*Loading Rate for 4 ft trench system with 2ft separation @ 45 min/in = 1 GPD/SF.
  - \*Design: Total of 116 LF of trench and 24 Eljen A42 Modules consisting of 4 equal 29 LF trenches with 6 modules each.
  - \*Trenches are to be placed min. 8 ft center-to-center and dosed via pump system and 4-outlet(min) distribution box.
  - \*The modules will be placed end to end with no sand between and 2.5' of sand at each end, as shown.
  - \*Trench depth = 40"/34"-44" (per soils study).
- #6: Reserve Absorption Field -
  - \*Soil Series: MADISON BETHLEHEM (see soils study).
  - \*Perc Rate = 65 minutes per inch.
  - \*65 min/in = 345 SF/BR x 3 BR / 3 SF/LF Trench = 345 LF trench minimum total.
  - \*Design: 345 LF. Conventional gravel absorption trench, 12" gravel 3ft wide, as shown.
  - \*Trench depth = 28"/18"-28" (per soils study).



**NOTES:**

- This design is in accordance with the standards and regulations set forth in the Georgia Department of Public Health Manual for On-Site Sewage Management Systems. On-Site Wastewater Consultants does not issue permits for, install, maintain, or guarantee the performance of any on-site sewage management system. The County Health Department has the authority to permit on-site sewage management systems on this property. The County Health Department has final jurisdiction over permitting and regulating on-site sewage management systems. Any alteration to this design, including change in or use of specific products as listed or shown on design without my expressed, written consent and approval will render this design null and void. Any alteration to the site after the date on the design may change the nature and suitability of the site.
- Any &/or All deficiencies cited must be verified in writing by the County as originated in the Georgia On-Site Sewage Management Systems regulations (i.e. Chapter, Page, Section).
- System designed by On-Site Wastewater Consultants, LLC
- This drawing as an instrument of services is and will remain the property of On-Site Wastewater Consultants, LLC, and shall not be used in any way without the written consent of On-Site Wastewater Consultants, LLC
- Contours shown were taken from county GIS data.
- Base map information shown was taken from plans provided by owner/developer, and is shown for reference and design of septic system, not intended to be a survey.
- Soils information was taken from soils survey provided by owner/developer, all soils information is for reference and design of septic system only (not intended to be a soil survey, reference actual soils delineation map and report for more information and certification)
- The accuracy of soils information shown is not expressed or implied by On-Site Wastewater Consultants, LLC or this drawing.
- It is critical that the house be located exactly as shown before construction begins.
- This property is served by public municipal water.
- All know wells observed within 100 feet of the property lines are shown
- Installation of system must comply with all applicable county Environmental Health Department and Georgia DPH requirements and be installed by a licensed installer
- Absorption field and septic tank areas shall be landscaped to prevent ponding of water. All surface waters, including but not limited to down spouts, rooftop runoff and driveway runoff should be piped or diverted in an approved method away from on-site sewage management system.
- House elevation and stub-out are estimated.
- I certify this on-site sewage management system meets the minimum design requirements established by the Department of Public Health. I have made a site visit to verify the system can be installed as designed in accordance with these regulations.

REVISED 9/27/25 SETBACKS

ON-SITE SEWAGE MANAGEMENT SYSTEM  
 THE HOME PLACE  
 3705 RONNY WAY  
 HALL COUNTY, GEORGIA



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PROJECT  
 1863  
 9/4/2025  
 SHEET  
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