

DESIGN NOTES - CONVENTIONAL:

- **FLOODPLAIN & E.A.R.Z.**

- Property is not located within the 100 Year Floodplain
- Property is located over the E.A.R.Z.
 - No recharge features observed within 50' of the tank and 150' of drainfield.
- Positive drainage exist in the area of the septic system.

- **HOUSE NOTES:**

- # of bedrooms = 3
- Living sq.ft. = <2,500
- Wastewater Design Flow = 240 Gallons Per Day

- **SEPTIC TANK NOTES:**

- A 750 gallon 2 compartment pre-cast concrete tank.
- Tank to be bedded on a 4" minimum sand pad.
- Tank must be 5' from any surface improvement (house).
- Tank must be level within 1".
- Inlet and outlet devices will consist of "Tee" fittings.
- The outlet "Tee" shall protrude the effluent to a depth of 25% - 50% of liquid depth.
- Tank excavation to be backfilled with clean soil free of rock greater than 1/2" diameter. Class IV clay is not acceptable as backfill material.
- A two-way cleanout shall be placed between the house and tank
- A cleanout is required after the tank (per Local Order)

- **RISER AND SECONDARY RESTRAINT REQUIREMENTS:**

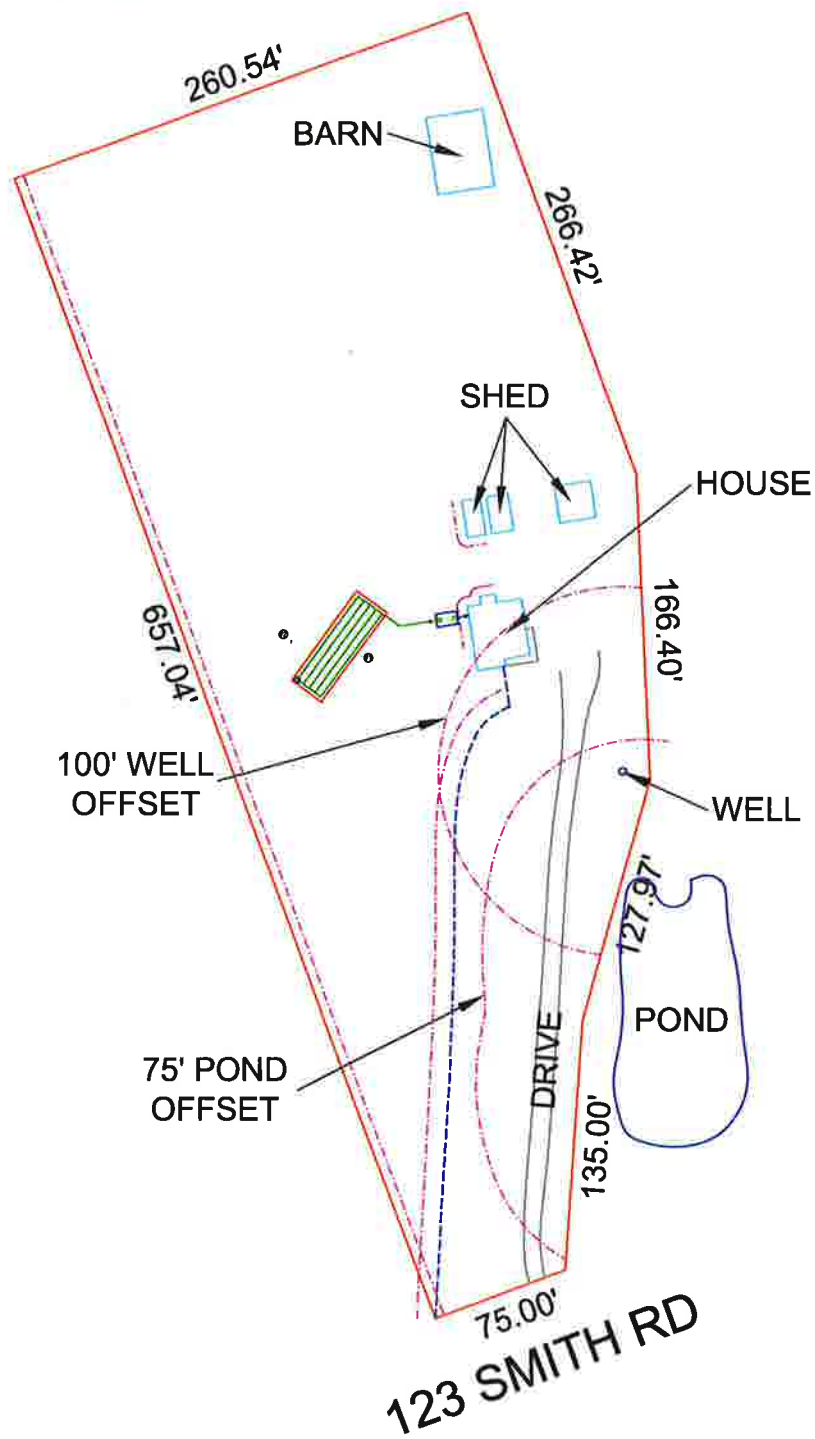
Septic tanks buried more than 12 inches below the ground shall have risers over the port openings. The risers shall extend from the tank surface to no more than six inches below the ground. A secondary plug, cap, or other suitable restraint system shall be provided below the riser cap to prevent tank entry if the cap is unknowingly damaged or removed.

- Risers shall have inside diameters which are equal to or larger than the inspection or cleanout ports.
- Risers must be permanently fastened to the tank lid or cast into the tank. The connections between the riser and the tank lid must be watertight.
- Risers must be fitted with removable watertight caps and protected against unauthorized intrusions. Acceptable protective measures include:
 - A padlock; a cover that can be removed with specialized tools; a cover having a minimum net weight of 65 pounds set into a recess of the tank lid; or any other means approved by the executive director.
- Risers and riser caps exposed to sunlight must have ultraviolet light protection.

- Risers must be able to withstand the pressures created by the surrounding soil.
- **PIPE SPECIFICATIONS:**
 - Pipe from house to tank shall be 3" – 4" Sch. 40 PVC
 - 1/8" per foot fall minimum.
 - Pipe from tank to drainfield and between trenches shall be 3" – 4" SDR-35 or stronger.
 - A minimum of 12" of fall is required from the bottom the outlet pipe to the bottom of the drainfield excavation.
 - Pipe in Drainfield shall be 3" – 4" SDR-35, ASTM 2729 or stronger perforated pipe and generally level.
- **CALCULATIONS:**
 - Total Absorptive Area (A) = Q / Ra. Therefore, 240 / 0.2 = 1,200 sq.ft
 - As Designed – Area = L x W
 - One bed at 20' x 60' = **1,200 sq.ft. as designed.**
- **FIELD NOTES:**
 - One 20' x 60' Bed
 - Bed Depth = 18" – 36"
 - Trench Width = 36"
 - The bottom of the bed shall be level to within 1" every 25' or within 3" total, whichever is less.
 - The bed shall have 12" minimum of uniform washed gravel ¾" – 2". Minimum 6" of gravel is required under perforated pipe.
 - Monitor port with screw cap required in drain field.
 - Gravel to be covered with geotextile fabric.
 - Disposal area to be covered with minimum of 6" of Class Ib, II or III backfill to ensure positive drainage off the disposal field.
 - Disposal field to be seeded, hydro-mulched or sodded with year around grasses immediately after installation.
 - If sodded, sandy back recommended. If clay back is used, a checkerboard layout is required.
 - All septic components must be a minimum of 10' from any water line, 100' from well to drainfield, 50' from well to tank, 5' from property lines, 5' from drive and 5' from all surface improvements, 1' from PUEs. (See TAC 285 Table X for complete list of setback requirements)
- **OSSF MAINTENANCE & LIMITATIONS**
 - This section left intentionally blank. Please include any notes you feel are necessary in this section.
- **SEAL, SIGNATURE AND DATE**

OSSF AT: 123 SMITH RD, SOMEWHERE, TX

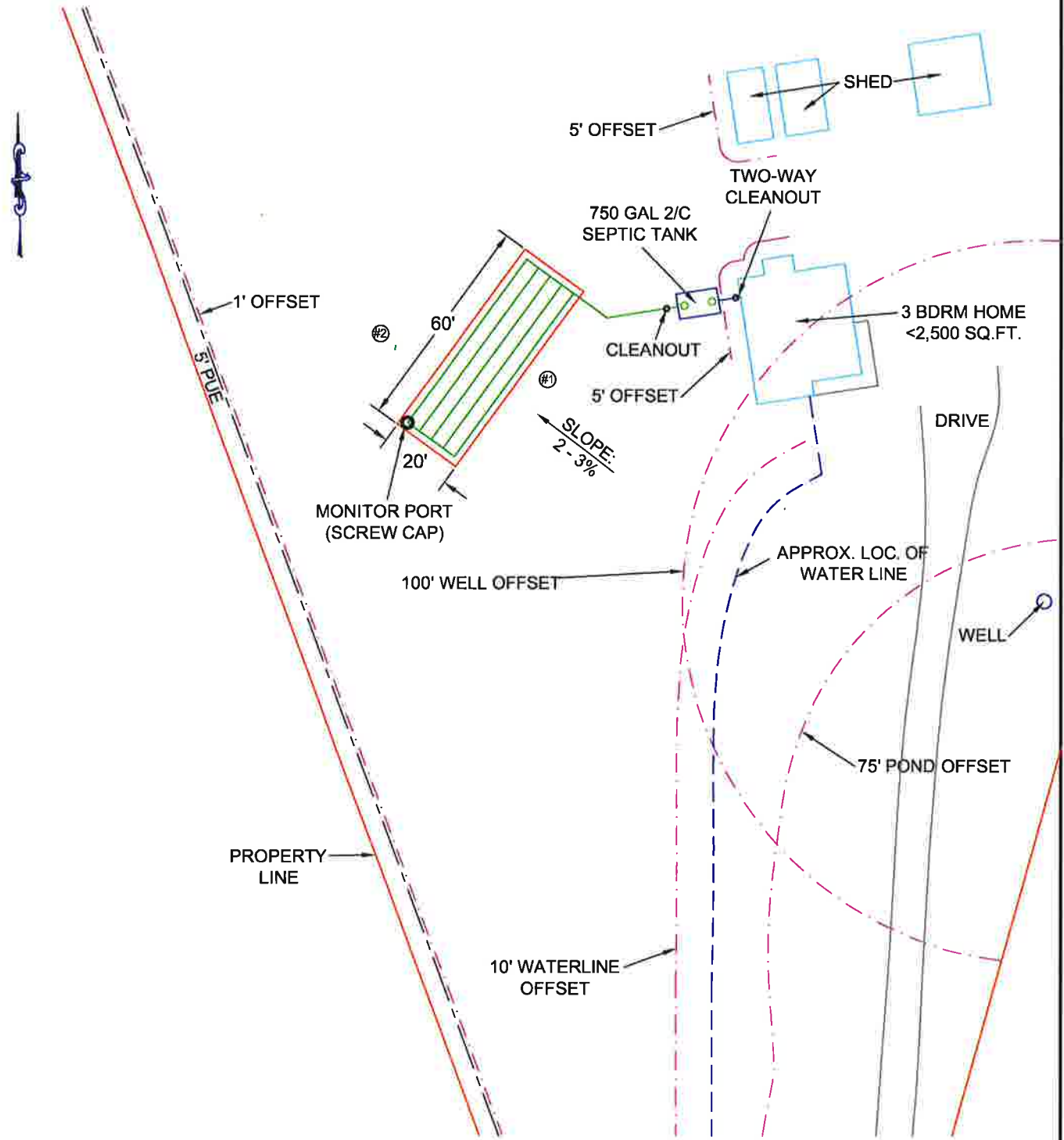
Tract Size: approx. 3.17 acres



SCALE: 1" = 100'

OSSF AT: 123 SMITH RD, SOMEWHERE, TX

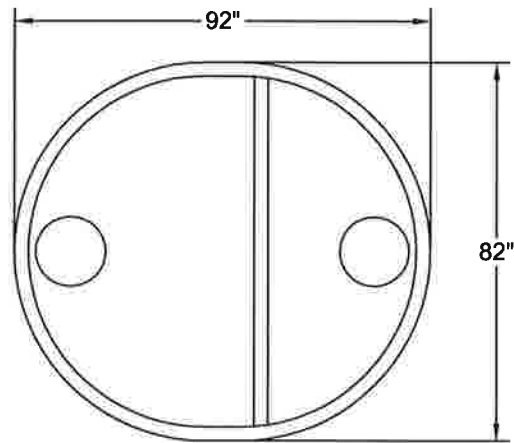
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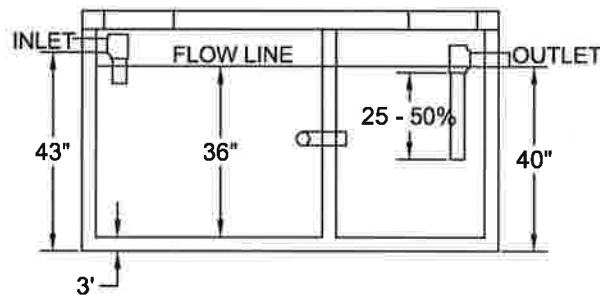
SCALE: 1" = 40'

OSSF AT: 123 SMITH RD, SOMEWHERE, TX

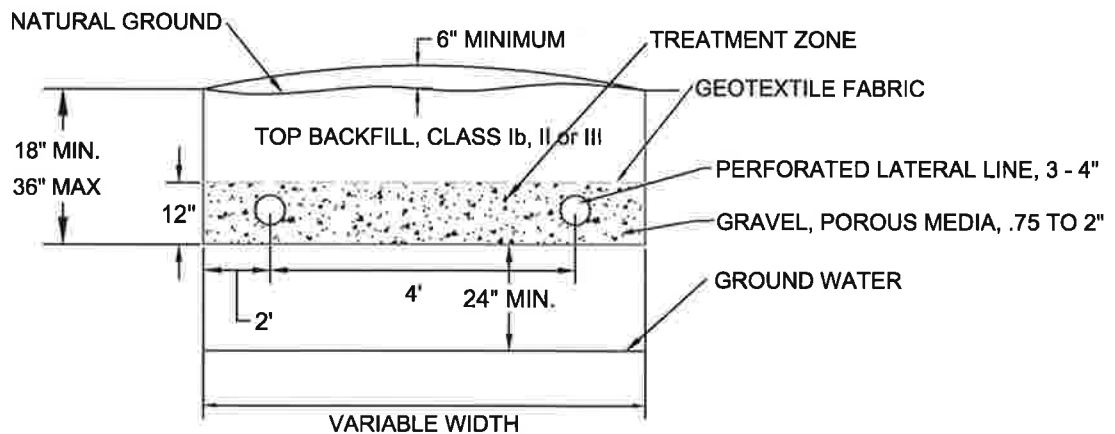
Tract Size: approx. 3.17 acres



750 GALLON SEPTIC TANK; 2-COMPARTMENT
(TYPICAL DIMENSIONS)



CONVENTIONAL CROSS-SECTION : BED SYSTEM



NOTE: PLACE FABRIC OVER TOP AND SIDES OF GRAVEL.
NOTE: SYSTEM W/ 2 LATERALS SHOWN, SYSTEMS WITH ADDITIONAL WIDTH SHALL CONTINUE WITH INTERIOR LATERALS ON 4' SPACING OR LESS.