

SEPTIC SYSTEMS GUIDELINES

1. General Information

- a. Septic installers must be registered with Missouri and Henry County Health Center (HCHC)
- b. Regardless of acreage size, all septic work MUST have a permit and be inspected.
- c. All septic systems, including lagoons, must have a septic tank.
- d. Homeowners, on 10 acres or more, may install their own system once they have registered with HCHC and have complied with all requirements.
- e. Registered installers and homeowners must obtain a permit by submitting the following, before beginning septic work:
 - Henry County Septic Permit Application (Must be complete and legible)
 - Detailed plan of treatment system to include set back distances
 - Soil morphology for new construction under 10 acres.
 - Permit fee
- f. Permit must be posted at the construction site visible from the road before any installation begins.

2. Setback Requirements

- a. At least 100ft from any potable water source used for human or animal consumption
- b. At least 10ft from rural water lines and meters
- c. Septic tank must be at least 10ft from the house or at least 15ft from the basement wall with one cleanout between the house and tank
- d. Lateral lines must be at least 10ft from property lines.
- e. Lagoons must be at least 100ft from property lines and the residence it serves and at least 200ft from all adjoining residences.

3. Septic Tank Requirements

- a. Septic tank size must be a minimum of 1,000-gallon capacity
 - a. 1-3 Bedrooms 1,000 gallons
 - b. 4 Bedrooms 1,250 gallons
 - c. 5 Bedrooms 1,500 gallons
 - d. Commercial sites are calculated based upon daily flow.
- b. Tanks must be concrete or state approved polyurethane. No metal tanks allowed.
- c. A manhole cover shall be provided over the inlet and outlet baffles of each tank and terminate at or above grade and with baffles properly installed.
- d. Tank must be level and adequate fall on the inlet and outlet lines, 1/8" per foot is ideal
- e. 4-inch SCH 40 PVC on inlet & outlet of tank and at least 2 feet past excavation hole

4. Distribution Box Requirements (if a distribution box is used)

- a. Must be laid level on rock

- b. Must use solid pipe from box to laterals
- c. All pipes must be sealed water tight
- d. If trenches are on different grade than system, must be stepped down with the end connection at least 1in higher than the receiving line or use a drop box.

5. Conventional Lateral Field Requirements (conventional system types include: Rock and pipe, EZ Flow, Infiltrator Chamber, and 10" SB2)

- a. Minimum lateral footage requirements: 300 linear ft for 2-bedroom house, 400 linear ft for 3-bedroom house, and 500 linear ft for 4-bedroom house. This may increase depending on results from soil morphology.
- b. Lateral trenches have a level bottom and all distribution lines must be level
- c. Lateral lines on the same grade must have ends tied together, if not, must be capped
- d. Lateral trenches must be backfilled with un-compacted topsoil and mounded
- e. One inspection port required in the field. The stand pipe may or may not be connected to the lateral line.
- f. Poor soils or small lots may require an engineered alternative system.
- g. Rock and Pipe system requirements:
 - 12" of rock is required under the lateral distribution line, 4" around the pipe, and 2" over the top of the line.
 - Rock must be at least 1 ½" clean, washed screened rock.
 - 8" of straw or synthetic fabric to be placed as a breathing barrier on top of the rock cover over the line. Tar paper should not be used.

6. Lagoon Requirements

- a. Minimum size of the lagoon shall be 30x40ft or 1200sq ft of surface water.
- b. Lagoons for houses exceeding 3 bedrooms will be based on 400sq ft per bedroom.
- c. 3ft operating depth and 2ft freeboard equals 5ft deep, 3 to 1 slope inside and outside.
- d. Pad or block must be placed in the center of the lagoon.
- e. Minimum 4ft tall fence must be installed.
- f. Free of aquatic vegetation and shall remain unshaded by trees.
- g. Mowing around lagoon and routine maintenance is required.
- h. No discharge pipe allowed.
- i. Final inspection report is not completed until fence is installed.

7. Installer Requirements

- a. Must be registered with Missouri and the Henry County Health Center (HCHC)
- b. Homeowners who want to install their own systems must register with HCHC (10 acres or more)
- c. HCHC Registration, which includes paying a fee, attending a class, & passing a test

8. Inspections

- a. All septic system installations must be inspected to be approved.
- b. 24-hour notice is required for an inspection.
- c. No backfilling before inspection takes place.
- d. Septic systems installed without a final inspection may result in the system being

dug up at the owner's or installer's expense. Fines may apply.

- 9. Deviations:** any deviations must be approved by the Board of Trustees of the Henry County Health Center during the regular monthly board meeting.