GRAYROCK SHOALS - LOT #32

LOW PRESSURE PIPE (LPP) SEPTIC SYSTEM DESIGN

Design Considerations: The system has been designed to accommodate a 3 bedroom house with basement. Basement is walkout to rear with finish floor above level of lines. On east end of house is carport/garage on a slab with a 7.5' setback requirement. Field and trench design utilize steeper soils on the lot in order to maintain vegetative site buffer. Most of the designated repair has large > 18"DBH hardwoods which the landowner wants to preserve. Also, by using the more sloped area, the lines are longer utilizing a wider aerial window. The longer lines facilitate design and the valves used in installation will make required maintenance easier.

Location: A 2.47 acre building lot located on the left near the end of Grayrock Drive in western Iredell County.

Reference material:

(1) *Design and Installation of Low Pressure Pipe Wastewater Treatment Systems,* by Craig Cogger, Bobby L. Carlisle, Dennis Osborne, and Ed Holland. UNC Sea Grant UNC-SC-82-03, May 1982.

(2) *Laws and Rules for Ground Absorption Sewage Disposal Systems 15A NCAC 18A .1900,* NCDEHNR-DEH.

Recommendations: 480 lineal feet of field lines, 1.0' wide with 8-10" of stone. Application rate and soil suitability established by the Iredell County Health Department (ICHD) field staff.

Ownership Responsibility for an LPP System:

It must be kept in mind that this system is designed to accept a moderate amount of wastewater (which is called the effluent), in a minimal water absorbing soil (clay or heavy clay loam texture).

Conservative measures should be undertaken in plumbing fixture specifications to minimize the volume of wastewater entering the disposal system, including, but not limited to the following precautions:

(a) Provide water conserving plumbing fixtures within the facility.

(b) Develop conservative water use habits.

(c) Do not install a garbage disposal (or use very sparingly if installed)

(d) Monitor and maintain the system as necessary for proper operation. This Type IV a. LPP permit will require that a maintenance contract be

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