filed with the Iredell County Health Department. It is recommended that the owner aggressively use this requirement to extend the life of the system.

System must be properly installed by a qualified, experienced, and competent contractor following the requirements of the County Dept. of Environmental Health; DEH; the N.C. Building Code, Plumbing Code and Electrical Code; and the National Electrical Code.

Components of System

1. Two compartment septic tank
2. Pumping tank
3. Submersible effluent pump and level controls
4. High water alarm signals
5. Supply pipe
6. Manifold with 3 gate valves
7. Laterals with gravel in ground absorption trenches

Construction Sequence

(1) Lines have been flagged as noted on drawing. Actual flag lengths may vary because of trees or other obstructions, but they are on the center of the line. Installer must verify length specified on this plan. The need for a French drain is not indicated at this time.

(2) Clear by grubbing, and do not push down large trees which would disturb more than 6" of soil depth. Cut the tree at ground level. If stump needs to be removed use a grinder. Excavate lateral network trenches 12" wide by approximately 14" deep (see detail). Remove loose soil from bottom of trench. Relating elevations to head calculations are critical. All lines to be level. Always stay on contour. Line segments are wider than the required 5.0" in some places to allow this. Check line elevation frequently with a transit/level, as this is critical to proper operation.

(3) Install stone, pipe and sleeve (to specified elevation) and cover stone in bottom of the lateral trench to the proper depth. The 4" corrugated pipe is an addition and later modification to the previously referred Cogger, 1982 manual. This protects holes, reduces root problems, and allows added storage in the trench.

(4) All joints in lateral manifold piping shall be watertight connections to insure that the only source of the water seepage from the system is through the orifices as designed. Carefully install manifold and lateral network according to the attached designed layout. Protect gate valves with permanently fixed boxes. These valves have to be close enough for one man to simultaneously adjust all three. A larger diameter protective

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