**MARION COUNTY ENVIRONMENTAL HEALTH DEPARTMENT**

**PRIVATE SEWAGE SYSTEM INSPECTION REPORT**

**SUBSURFACE SOIL ABSORPTION - ATGRADE**

|  |  |  |
| --- | --- | --- |
| GENERAL INFORMATION | | |
| Owner: | Contractor: | |
| Address: | Inspector: | |
| Inspection Date: | Approved | Disapproved |

S = Satisfactory U = Unsatisfactory NA = Not Applicable

|  |  |  |  |
| --- | --- | --- | --- |
| S U NA | At Grade Septic System |  | |
| Minimum Setbacks to Closed / Open Portions of Septic System: | | | |
| Setback requirements met according to open and closed portion of the system (Table1, IAC 567 CH.69) | | |  |
| system constructed on undisturbed naturally occurring soils | | |  |
| No buildings, driveways or other surface or subsurface obstructions shall be permitted within 25 feet on the down-gradient side of the at-grade system when the at-grade system is constructed on a slope greater than 5 percent | | |  |
| At Grade installed per Certified Engineer’s Design | | |  |
| Minimum of 3 feet of undisturbed naturally occurring soils between the bottom of the gravel in the at-grade system and the highest elevation of the limiting conditions defined in paragraph 69.11(1)“c.” | | |  |
| At-grade system installed up to 12 inches deep (OR PER ENGINEER SPEC) | | |  |
| Gravel shall meets the requirements specified in paragraph 69.9(4)“a.” EPS aggregate or chambers are acceptable alternatives to gravel. | | |  |
| Bed installed with the long dimension parallel to the land contour. | | |  |
| Soils under or within 15 feet of any at-grade system may be disturbed. On sloping sites, no soils shall be disturbed within 10 feet uphill of the system and within 15 feet downhill of the system plus an additional 5 feet for every 5 percent slope downhill. | | |  |
| Area plowed to a minimum depth of 7 to 9 inches, parallel to the land contour, with the plow throwing the soil up slope to provide a proper interface between the fill and the natural soil. Chisel teeth on a backhoe bucket shall be at least as long as the depth of plowing. Tree stumps should be cut flush with the surface of the ground, and roots should not be pulled. | | |  |
| One foot of loamy cover material shall be installed over the rock bed. Cover shall extend at least 5 feet from the ends of the rock bed and be sloped to divert surface water. Side slopes shall not be steeper than 4:1. The upper 6 inches of the loamy soil cover must be topsoil borrow. | | |  |

|  |  |  |  |
| --- | --- | --- | --- |
| S U NA | SITE PREPARATION | |  |
| Sewer Permit | | No: | |
| Percolation/Soil Test | | No: | |
| System Exposed for Inspection | |  | |

|  |  |  |  |
| --- | --- | --- | --- |
| S U NA | AT Grade System |  | |
| Distribution pipe shall be rigid plastic pipe, Schedule 40 or 80 with a 1-inch nominal diameter or equivalent design that ensures proper distribution | | | |
| The distribution pipe shall be provided with a single row of ¼-inch perforations in a straight line 30 inches on center along the length of the pipe or an equivalent design that ensures uniform distribution. All joints and connections shall be solvent-cemented. | | |  |
| Distribution pipe laid in gravel meeting specs per IAC 567 Ch. 69 or per engineer’s design. | | |  |
| The outer ends of all pressure distribution lines shall be turned up, with a long 90-degree elbow or two 45-degree elbows to allow for cleaning. The outer ends will have a screw-on cap and cover. The cover shall be accessible from the ground surface without excavation. | | |  |
| The central pressure manifold should consist of 1½- or 2-inch solid plastic pipe using a tee for connecting the distribution lines or an equivalent design that ensures uniform distribution. | | |  |
| The top of the gravel or EPS shall be covered with synthetic drainage fabric. Unbacked, rolled, 3½-inch-thick fiberglass insulation, untreated building paper, or other suitable material may be used with approval of the administrative authority. Plastic or treated building paper shall not be used. | | |  |
| After installation of the distribution system, the distribution system shall be pressure-tested before it is covered with gravel. The entire at-grade system is to be covered with topsoil native to the site or of similar characteristics to support vegetation found in the area. The entire at-grade system shall be crowned by providing 12 inches of topsoil on the side slopes, with a minimum of 18 inches of topsoil over the center of the at-grade system. The entire at-grade system shall be seeded, sodded or otherwise provided with a grass cover to ensure stability of the installation. | | |  |
| Area surrounding the at-grade system shall be graded to provide for diversion of surface runoff water | | |  |

|  |  |  |  |
| --- | --- | --- | --- |
| S U NA | Dosing | |  |
| Pump dosing shall be required for at-grade systems. | |  | |
| The dosing volume shall be three to ten times the distribution piping network volume, but not more than 25 percent of the design flow shall be applied to the soil in one dose. (per Engineer spec) | |  | |
| The dosing pump shall be capable of maintaining a squirt height of 3 feet above the pipe at the outer ends of the distribution lines. All lines shall have an equal squirt height above the pipe to maintain equal distribution.(or per engineer specs) | |  | |

This Report and corresponding permit indicate the condition of the above mentioned private septic system at the time of the inspection. To the best of my knowledge, all of the listed State and local ordinances and rules have been adhered to. This does not guarantee the future condition or proper function of the system.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Inspector: Date: