**Section 905.APPENDIX A Illustrations and Exhibits**

**Section 905.ILLUSTRATION I Seepage Field Construction**

**Section 905.EXHIBIT A Gravel System**

|  |  |
| --- | --- |
| Trench length, maximum length from point of discharge into seepage trench | 100 feet |
| Trench bottom, minimum width | 8 in. |
| Trench bottom, maximum width | 36 in. |
| Trench bottom, minimum depth | 18 in. |
| Trench bottom, maximum depth | 36 in. |
| Trench bottom, slope | level |
| Distribution line, minimum diameter | 4 in. |
| Distribution line, minimum earth cover | 6 in. |
| Distribution line, maximum earth cover | 24 in. |
| Distribution line, maximum slope | level |

(Source: Amended at 20 Ill. Reg. 2431, effective March 15, 1996)

**Section 905.APPENDIX A Illustrations and Exhibits**

**Section 905.ILLUSTRATION I Seepage Field Construction**

**Section 905.EXHIBIT B Size and Spacing Gravel System**

|  |  |  |
| --- | --- | --- |
| Width of Trenchat Bottom | Minimum Center to Center Spacing of Distribution Lines | Effective Absorption Area Per Lineal Foot of Trench |
| Inches | Feet | Square Feet |
| 8 | 6.0 | 0.67 |
| 12 | 6.0 | 1.0 |
| 18 | 6.0 | 1.5 |
| 24 | 6.0 | 2.0 |
| 30 | 7.5 | 2.5 |
| 36 | 9.0 | 3.0 |

(Source: Amended at 9 Ill. Reg. 20738, effective January 3, 1986)

**Section 905.APPENDIX A Illustrations and Exhibits**

**Section 905.ILLUSTRATION I Seepage Field Construction**

**Section 905.EXHIBIT C Gravelless System**

|  |
| --- |
| STANDARDS FOR SEEPAGE FIELD CONSTRUCTION (GRAVELLESS) |
| Trench Length, maximum length from point of discharge into system | 100 feet |
| Trench Bottom, minimum width | 18 inches |
| Trench Bottom, maximum width | 24 inches |
| Trench Bottom, minimum depth | 18 inches |
| Trench Bottom, maximum depth | 36 inches |
| Trench Bottom, slope | level |
| Distribution Line, minimum inside diameter | 8 inches |
| Distribution Line, maximum inside diameter | 10 inches |
| Distribution Line, minimum earth cover | 6 inches |
| Distribution Line, maximum earth cover | 24 inches |
| Distribution Line, maximum slope | level |

(Source: Amended at 20 Ill. Reg. 2431, effective March 15, 1996)

**Section 905.APPENDIX A Illustrations and Exhibits**

**Section 905.ILLUSTRATION I Seepage Field Construction**

**Section 905.EXHIBIT D Spacing − Gravelless and Chamber Systems**

SPACING FOR SEEPAGE FIELD CONSTRUCTION

(GRAVELLESS AND CHAMBER SYSTEMS)

|  |  |
| --- | --- |
| Gravelless and Chamber Dimensions  | Minimum Center to Center Spacing of Distribution Lines |
| 8 Inch Inside Diameter of Gravelless Pipe System  | 7.0 feet |
| 10 Inch Inside Diameter of Gravelless Pipe System  | 7.0 feet |
| 12 Inch Wide Chamber System | 7.0 feet |
| 18 Inch Wide or Wider Chamber System | 9.0 feet |

(Source: Amended at 37 Ill. Reg. 14994, effective August 28, 2013)

**Section 905.APPENDIX A Illustrations and Exhibits**

**Section 905.ILLUSTRATION I Seepage Field Construction**

**Section 905.EXHIBIT E Chamber Sizing Requirements**

Example: Chamber systems shall be sized on the absorption area of the chamber that is equivalent to the bottom area of a gravel system. The equivalent chamber absorption area per lineal foot is equal to the average inside width of the chamber times an equivalency factor of 2.5. For example, a chamber that has an average inside width of 1.25 feet provides an equivalent absorption area of 3.125 square feet per lineal foot. (1.25 feet times the 2.5 equivalency factor equals 3.125 square feet per lineal foot.

To determine the length of chambers required, first calculate the absorption area required for a gravel system based on Appendix A, Illustration H, Exhibit A or Appendix A, Illustration M, Exhibit A. Then divide this area by the equivalent chamber absorption area per lineal foot. For example, if a 3 bedroom house requires 870 square feet of absorption field and chambers 1.25 feet wide are being used, then the length of chambers needed is 278 feet. (870 square feet divided by 3.125 square feet per lineal foot equals 278 feet.)

Chamber systems with an average inside dimension equal to or greater than 20 inches shall not be designed to receive an equivalent absorption area of greater than 5~~4~~ square feet per lineal foot.

(Source: Amended at 37 Ill. Reg. 14994, effective August 28, 2013)