LEGEND

H = Maximum Allowable Height of Cover over the Top of the Pipe, excluding pavement thicknesses.

Fill Height Designations are based on AASHTO LRFD Bridge Design Specifications, 6th Edition, Section 26.7.

Fill heights are based on AASHTO MP-20 Type A Pipe with Resin-Rich Reinforced Steel Walls.

Fill heights for installation with high water table require a special design.

The minimum cover shall be as shown on these tables or conform to AASHTO requirements, whichever is greater. The minimum cover for pipe is measured from the top of the pipe to the bottom of the pavement layer or footing.

The minimum cover is measured from the top of the pipe to the top of the subgrade during construction, the minimum cover is based on total axle loads of 80,000 pounds.

L1 = Length of pipe to be measured when placed in accordance with Section 6.24.

L2 = Length of pipe to be measured when placed in accordance with Section 6.25.

+ = The minimum spacing between the outside walls of multiple pipes or end sections in 30 ft or 60 ft, whichever is greater.

METAL END SECTION

NOTE: USE THE H THAT IS GREATER FOR MAXIMUM ALLOWABLE FULL HEIGHT PIPE WITH END SECTIONS

PIPE DIAMETER, d (IN.) | H MINIMUM HEIGHT OF COVER (FT.) | H MAXIMUM HEIGHT OF COVER (FT.)*
--- | --- | ---
30 | 2 | 50
48 | 2 | 50
48 | 2 | 50
54 | 2 | 50
60 | 2.5 | 50

* A manufacturer's certification of maximum allowable full height is required prior to installation.

MINIMUM AND MAXIMUM COVER

INSTALLATION OF PIPE

NOTE: USE THE H THAT IS GREATER FOR MAXIMUM ALLOWABLE FULL HEIGHT PIPE WITHOUT END SECTIONS

INSTALLATION OF MULTIPLE PIPES

ASHTO MINIMUM COVER FOR CONSTRUCTION LOADS

STANDARD PLAN NO.

M-603-6

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