

MANHOLES: GLOSSARY OF TERMS

Boots These are neoprene sleeves that slip over a Plasti-Fab manhole pipe stub as well as the pipe to which it is to be connected. It is secured in place with stainless steel bands. The material is typically a neoprene or neoprene blend. The neoprene boots allows for flexibility and adjustability of alignment and elevations. For pipes greater than 12", the material is typically ¼" thick x 10" wide and is custom-made to fit the O.D. of the piping systems. For pipes that are larger than 18", the material is 3/8" thick and 12" wide and is also built to match the O.D. of the piping system. Both of these custom-made boots are supplied with 4 stainless steel bands for each individual boot.

Cone Top Commonly a fiberglass manhole with a cone top will be used in a paved area that will be driven over. The cone top reduces the barrel size down to the size of the manhole lid assembly. Plasti-Fab fiberglass manholes are designed to surpass Highway 20 load requirements. At this time, Plasti-Fab provides traffic loading cone tops for only its 4' and 5' diameter barrels. The 5' diameter barrels can be provided with a cone top having either a 22 ½" I.D. or a 36" I.D. opening. The 4' diameter barrels can be provided with cone tops having either a 22½" I.D. or 28" I.D. opening.

Drop Manhole A drop manhole is a structure that has the inlet pipe coming in at a higher elevation than the outlet pipe. The flow drops from the higher inlet elevation to the lower outlet elevation.

Energy Absorbing Manhole This is a custom manhole built with specially designed baffles for calming high velocity/turbulent flows. This energy absorbing manhole is suitable for use with sanitary waste. For small piping systems that are 8' or less underground, this manhole may be as small as 30" in diameter. Typically, an energy absorbing manhole will be installed 15 – 20' in front of a flume system.

FRP This stands for Fiber Reinforced Polyester. Most frequently, it is used in place of the word fiberglass. These polyester resins are typically good for most acids found in sewers and chlorine applications, but do not do well with exposure to caustic chemicals. Typically, they have a temperature range in the neighborhood of 180° F.

Grade Rings Grade rings are typically made of concrete and can have various heights ranging from 2" – 4" or more. These grade rings sit on top of the manhole around its access way. The cast iron ring and lid assembly sits on top of the grade rings and finishes off flush with grade of the paved surface. Grade rings allowed for field adjustment of a finished elevation for a manhole installation. At times, bricks will be stacked on top of the manhole in place of grade rings. Grade rings and the cast iron lid assembly are typically furnished by the installing contractor.

MH MH stands for Manhole.

OSHA Head These are installed in manholes having a cone top opening less than 30".

Hazard Board This head hazard board of deflector plate is installed opposite of the ladder from the opening back to the wall of the manhole. It is intended to prevent a person from hitting their head on the underside of the cone tope as he ascends the ladder. If we fabricate a manhole that has a height from a standing surface inside to the cone top opening of 7' or less, then we do not install this device because the danger of being knocked back into the hole is highly unlikely.

PMM PMM stands for Packaged Metering Manhole.

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