

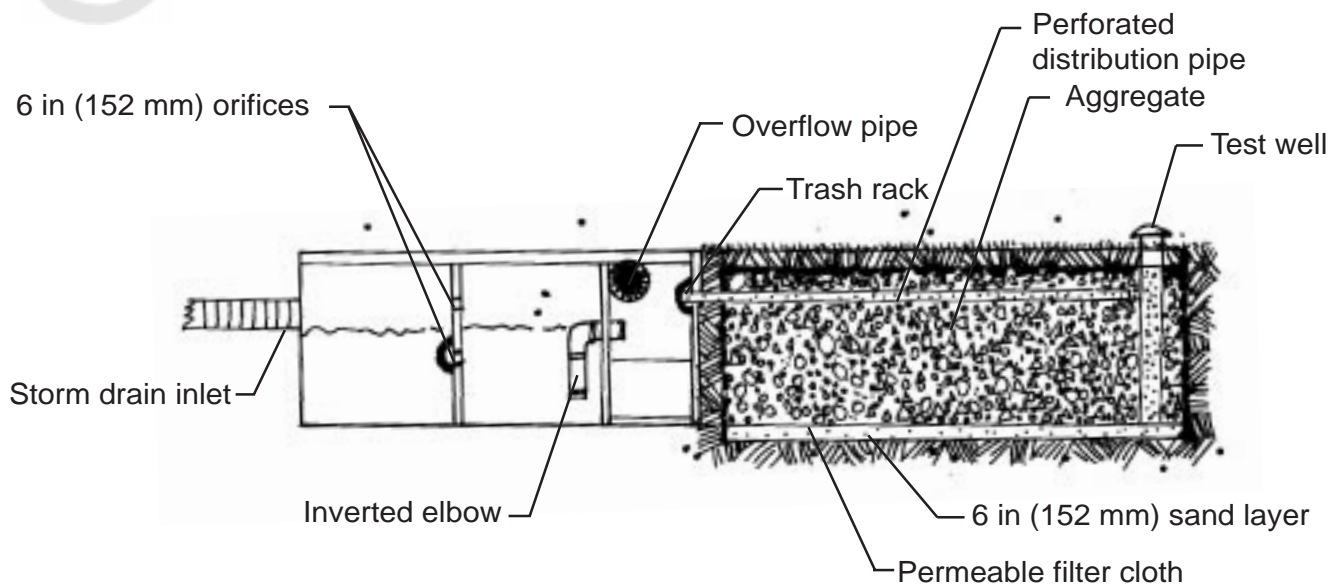
PRIMARY USE: For concentrated runoff in commercial/industrial parking lots.
ADDITIONAL USES:

UNDERGROUND TRENCH WITH OIL/GRIT CHAMBER

What is it? This BMP is an oil/grit inlet leading to a chamber structure used to pre-treat runoff before it enters the trench which is covered by turf, soil, and filter fabric. Three-chamber designs are frequently used whereby the first chamber collects litter and coarse sediment, a second chamber separates out grease and oil, and a third chamber is the inlet to the trench. The system is covered with soil, paving or a similar material.

Purpose

This chamber and trench structure is suited to handling concentrated runoff, especially runoff involving commercial and industrial parking lots which produce significant amounts of oil and grit. Infiltration trenches can potentially reproduce pre-development hydrologic conditions for given sites.



**Underground Trench with Oil/Grit Chamber
Section View**

Limitations

Maintenance is very important to this treatment technique due to the nature of the runoff from heavily used parking lots, and the covered nature of its location.

Materials

Chamber, various piping and related fittings and fixtures, sand, gravel, filter fabric.

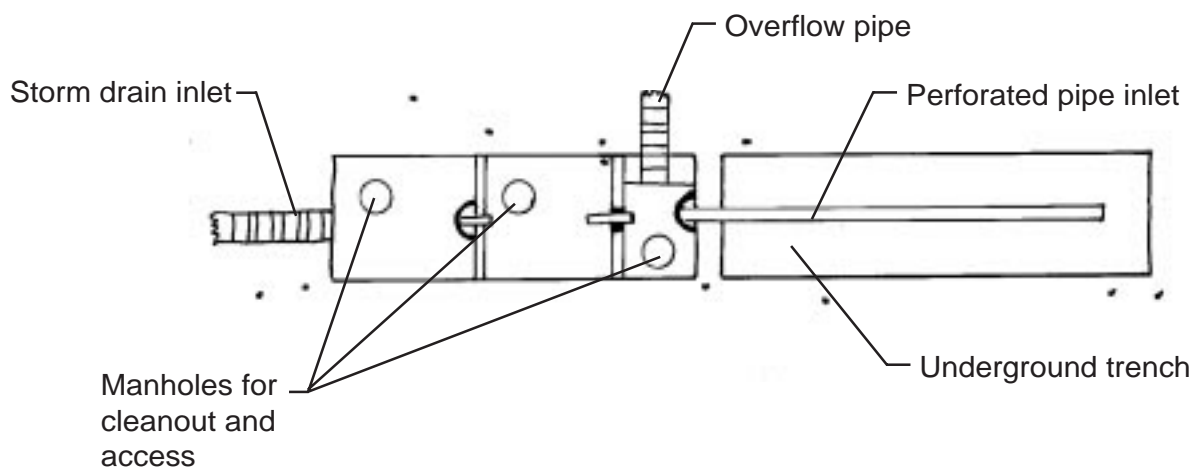
Installation

Underground trenches should be located only where assurances of adequate and regular maintenance can occur.

Source: Controlling Urban Runoff, Metropolitan Washington.

UNDERGROUND TRENCH WITH OIL/GRIT CHAMBER

Additional Drawings:



**Underground Trench with Oil/Grit Chamber
Plan View**