

Revised DCM Section 5

5.6.0 MANHOLES

Manholes provide important access points for cleaning and maintenance purposes. Manholes shall be provided in accordance with the following criteria:

1. Provide manholes at all locations where the diameter of the trunk line pipe changes or where the cross-sectional dimensions of the trunk line box change.
2. Provide manholes at all vertical deflections that exceed 80% of the conduit manufacturer's allowable deflection at a joint.
3. Provide manholes at all locations where the spacing between two or more laterals intersecting the trunk line is equal to or less than ten feet.
4. The maximum distance between manholes within the storm drain system shall not exceed:
300' for conduits smaller than 24",
400' for conduits between 27 " – 36",
500' for conduits between 42" – 54", and
600' for conduits 60" or greater in diameter.
- 5.
6. When designing a storm drain system, storm drain inlets and outfalls shall not be considered as access points to the trunk line for inspection or cleaning purposes.
7. The location of manholes within the system must provide a maintenance path that has no more than one horizontal bend with that bend having a deflection of no more than forty-five (45) degrees. This allows for two (2) forty-five degree bends within the maximum allowable distance between manholes.
8. Manholes shall not be placed in driveways or in the street in front of or immediately adjacent to a driveway unless approved by the Director of the Watershed Protection Department.
9. New manholes shall not be located within ditches or swales, unless approved by the Director of the Watershed Protection Department.
10. Manholes must be accessible in accordance with the requirements of Section 1.2.4.E of this manual.
11. See Figure 5-12 in Appendix D of this manual for examples of typical manhole locations.

~~Manholes provide a very important access point for maintenance purposes. Due to equipment restraints, every point within the storm drain must be a maximum of 250 feet from an access point for drains 30 inches in diameter or smaller. For storm drains greater than 30 inches in diameter, manholes shall be placed so that there is a maximum distance of 300 feet to an access point. Inlets and storm drain outfalls may be considered as access points for maintenance purposes. Access points must be accessible in accordance with the requirements of Section 1.2.4.E of this Manual and must provide a maintenance path within the storm drain that has no more than one horizontal bend, with that bend having a deflection of no more than forty five (45) degrees in the direction of the maintenance path, and no vertical bend with a~~

~~deflection of greater than five (5) degrees. Storm drain slope adjustments of less than five (5) degrees are not subject to this requirement.~~

~~Manholes shall also be located where two or more laterals intersect the main line within five (5) feet of each other (See Figure 5-12 in Appendix E of this manual for examples of possible manhole locations). Manholes shall also be placed at locations where changes in pipe size occur.~~