

718.0 Grade, Support, and Protection of Building Sewers.

718.1 Building sewers shall be run in practical alignment and at a uniform slope of not less than 20mm/m (1/4 in./ft.) toward the point of disposal.

Exception: When approved by the Authority Having Jurisdiction and where it is impractical, due to the depth of the street sewer or to the structural features or to the arrangement of any building or structure, to obtain a slope of 20mm/m (1/4 in./ft.), any such pipe or piping 100mm (4 in.) through 150mm (6 in.) shall be permitted to have a slope of not less than 10mm/m (1/8 in./ft.) and any such piping 200mm (8 in.) and larger shall be permitted to have a slope of not less than 5mm/m (1/16 in./ft.).

718.2 Building sewer piping shall be laid on a firm bed throughout its entire length, and any such piping laid in made or filled-in ground shall be laid on a bed of approved materials and shall be properly supported as required by the Authority Having Jurisdiction.

718.3 No building sewer or other drainage piping or part thereof, which is constructed of materials other than those approved for use under or within a building, shall be installed under or within 60cm (2 ft.) of any building or structure, or part thereof, nor less than 30 cm (1 ft.) below the surface of the ground. The provisions of this subsection include structures such as porches and steps, whether covered or uncovered; breezeways, roofed patios, carports, covered walks, covered driveways, and similar structures or appurtenances.

719.0 Cleanouts.

719.1 Cleanouts shall be placed inside the building near the connection between the building drain and the building sewer or installed outside the building at the lower end of the building drain and extended to grade.

Additional building sewer cleanouts shall be installed at intervals not to exceed 30m (100 ft.) straight runs and for each aggregate horizontal change in direction exceeding 2.4 radian (135 degrees).

719.2 When a building sewer or a branch thereof does not exceed 3m (10 ft.) in length and is a straight-line projection from a building drain that is provided with a cleanout, no cleanout will be required at its point of connection to the building drain.

719.3 Required building sewer cleanouts shall be extended to grade and shall comply with the appro-

priate sections of "Cleanouts," Section 707.0, for sizing, construction, and materials. When building sewers are located under buildings, the cleanout requirements of Section 707.0 shall apply.

719.4 Each cleanout shall be installed so that it opens to allow cleaning in the direction of flow of the soil or waste or at right angles thereto and, except in the case of wye branch and end-of-line cleanouts, shall be installed vertically above the flow line of the pipe.

719.5 Cleanouts installed under concrete or asphalt paving shall be made accessible by yard boxes or by extending flush with paving with approved materials and shall be adequately protected.

719.6 Approved manholes shall be permitted to be installed in lieu of cleanouts, when first approved by the Authority Having Jurisdiction. The maximum distance between manholes shall not exceed 90m (300 ft.).

The inlet and outlet connections shall be made by the use of a flexible compression joint not less than 30cm (1 ft.) and not exceeding 90cm (3 ft.) from the manhole. No flexible compression joints shall be embedded in the manhole base.

720.0 Sewer and Water Pipes.

Building sewers or drainage piping materials that are not approved for use within a building shall not be run or laid in the same trench as the water pipes unless both of the following requirements are met:

- (1) The bottom of the water pipe, at points, shall be not less than 30cm (1 ft.) above the top of the sewer or drain line.
- (2) The water pipe shall be placed on a solid shelf excavated at one side of the common trench with a clear horizontal distance of not less than 30cm (1 ft.) from the sewer or drain line.

Water pipes crossing sewer or drainage piping constructed of materials that are not approved for use within a building shall be laid not less than 30cm (1 ft.) above the sewer or drain pipe.

Note: For the purpose of this section, "within the building" shall mean within the fixed limits of the building foundation.

721.0 Location.

721.1 Except as provided in Section 721.2, no building sewer shall be located in any lot other than the lot that is the site of the building or structure served by such sewer nor shall any building sewer be located at any point having less than the minimum distances indicated in Table 7-6.