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17. The minimum distance between the flange on the outlet side of the water meter and the inlet side of the outlet valve shall be no less than four pipe diameters. For turbine water meter installations, the minimum distance between the flange on the outlet side of the water meter and the inlet side of the test tee shall be no less than four pipe diameters. No bends or other fittings shall be allowed in this pipe section.
18. The by-pass valve shall be bolted to the inlet tee, the flushing valve shall be bolted to the outlet tee and the drainage valve shall be bolted to the flushing valve. The test tee shall be bolted to the upstream side of the outlet valve. All valves shall be configured such that their handles shall not interfere with each other and all valves shall be readily accessible for operation, repair or replacement.
19. All water meters measuring both fire and domestic water consumption installed on a water service providing fire protection to a property shall be UL (Underwriters Laboratory) or FM (Factory Mutual) approved according to AWWA C703.
20. Any insulation placed on or around any water meter shall be easily removable and replaceable and shall not contain asbestos or any other toxic or hazardous materials. Such insulation shall not cover or obstruct the water meter register(s). Insulation shall be installed after final inspection. The City shall not be responsible for any damage to such insulation during any removal or replacement of such insulation.
21. The room where the water meter is located shall be positioned in the building such that it is adjacent to the outside wall of the building at the point where the private water service pipe enters the building.
22. The room where the water meter is located shall have a door with a minimum opening of one metre wide and 2.2 m high. The floor, walls and ceiling shall be constructed of waterproof materials.
23. The private water service pipe shall be flushed prior to and after the installation of the water meter.
24. For remote readout device wire and conduit installation, refer to City of Toronto specifications.

All dimensions are in millimetres unless otherwise shown.

	ENGINEERING & CONSTRUCTION SERVICES STANDARD DRAWING		REV 4	SEP 2018
	<b>INSTALLATION DETAILS FOR COMPOUND AND TURBINE TYPE WATER METER IN BUILDINGS</b>		<b>T-1107.03-1</b>	
			NTS	SH 3 of 3