

Hamilton City Development Manual	
Volume 3 : Standard Technical Specifications	Part 6 — Water Supply
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SECTION I : MISCELLANEOUS

1.0 INTRODUCTION

All watermain pipe laying and associated fitting installation shall only be carried out by a qualified water Service Person holding the qualification of National Certificate in Water Reticulation.

2.0 APPLICATION

This part applies to steel, ductile, PVC and MDPE pipes.

3.0 BACKFILL, COMPACTION AND REINSTATEMENT

Refer Clause 5.4 of Section B of this Specification.

Compaction test results (or substituted scala penetrometer tests) shall be submitted to Council for approval by appending test results to the QA form Checklist 6.2, Volume 4, Part 6 of the Development Manual.

4.0 TESTING

Before joints are covered, but after anchor blocks are completed, each section of the reticulation, together with all specials and fittings connected thereto shall be tested in the presence of the Engineer or Council.

The test shall be carried out, and all necessary apparatus supplied, by the developer. The reticulation shall withstand a pressure of 1400 kPa measured at the lowest point of the section under test, or 1.5 times the working pressure at any point in the system, whichever is the greater. The pressure shall be maintained for a period of 15 min, and during the period of the test, the leakage shall not exceed one litre per ten millimetres of pipe diameter per kilometre length of pipeline per hour. Before arranging connection to the existing reticulation, the Engineer or Council may require a similar test after completion of backfilling and any other adjoining works which may affect the water reticulation.

5.0 WATER MAINS TO BE KEPT CHARGED

After any water main has been laid, tested and disinfected, it shall be kept continually charged with water, and under pressure. If the permanent connection to the existing reticulation is delayed, a temporary small diameter connection shall be made from the existing reticulation. The pressure must be maintained while other underground services are being laid in the vicinity of the main.

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6.0 CONNECTION TO EXISTING WATER RETICULATION

The physical connection to the existing water reticulation can only be carried out once the pressure and bacteriological test results have been submitted to, and approved by Council. The connection procedure shall be carried out in accordance with Section F of this Specification.

For specific requirements in participating districts refer to Part 6 Volume 5.

7.0 ABANDONED WATERMAIN

7.1 In the event that a watermain is decommissioned, all removable valves, hydrants, fittings and surface boxes shall be recovered by the Contractor. The items shall be recycled, either by delivery to Council for reuse or by delivery to a scrap metal merchant.

7.2 The Contractor shall provide Council with an opportunity to inspect the removed items and direct which recycling option is to be taken. The Contractor shall deliver the items for recycling as directed by Council. In preparing as-built plans for the project the Contractor shall include detail as to:

- a) which valves and hydrants were removed, and
- b) which sections of watermain were decommissioned.