



**NOTES:**

1. DROP PIPE TO BE ONE SIZE SMALLER THAN INLET UNLESS OTHERWISE NOTED.
2. DROP PIPE TO HAVE CROWN LEVEL WITH OUTLET PIPE AND BENCHED TO CROWN.
3. DROP PIPE TO BLEND WITH FLOW.
4. DROP STRUCTURE TO BE ENCASED IN A MINIMUM OF 150 mm OF 20 MPa CONCRETE AND DOWELLED TO MAINTENANCE HOLE WITH 12 mm DIA. DOWELS, 450 mm LONG, EITHER SIDE OF DROP PIPE AND AT 300 mm C TO C.
5. MAXIMUM VELOCITIES SHOWN IN TABLE INDICATE MAXIMUM VELOCITY IN INCOMING PIPE WITH NO OVERSHOOTING.
6. WHEN USED ON STORM SEWERS OR SANITARY SEWERS 375 mm DIA. OR LARGER, A 1/2 DIA CONCRETE STOPPER MAY BE INSERTED IN THE INVERT OF THE MAIN LINE AS INDICATED.
7. ADJUSTMENT IN 'D' AND 'L' TO BE MADE WITH PLAIN END STRAIGHT PIPE.
8. WHERE 'Y' FITTING JOINS FIRST PIPE, A 300 mm WIDE BY 15 mm THICK 20 MPa CONCRETE COLAR IS TO BE CONSTRUCTED.
9. ALL CONCRETE IN DROP STRUCTURE TO BE 20 MPa AT 28 DAYS.
10. MINIMUM DIMENSIONS BASED ON USE OF STANDARD CONCRETE FITTINGS AS PER LATEST INFORMATION BY SUPPLIERS.
11. ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S PERMISSIBLE VARIATIONS.
12. WHERE PIPES CONNECT TO MAINTENANCE HOLE, JOINTS ARE TO BE WATERTIGHT WITH APPROVED SEAL / JOINT WATERSTOP.

| TABLE OF MINIMUM DIMENSIONS AND MAXIMUM VELOCITIES |          |      |          |      |          |      |                        |      |         |
|--|----------|------|----------|------|----------|------|------------------------|------|---------|
| DROP PIPE<br>(mm)                                  | TYPE 'A' |      | TYPE 'B' |      | TYPE 'C' |      | MAX. VELOCITY<br>m/sec |      |         |
|  | 'D'      | 'L'  | 'D'      | 'L'  | 'D'      | 'L'  | NO STOPPER             |      | STOPPER |
|  |          |      |          |      |          |      |                        |      |         |
| 200  | .915     | .815 | .610     | .760 | 1.22     | 1.07 | 1.42                   | 3.78 |         |
| 250  | 1.02     | .840 | .650     | .815 | 1.30     | 1.07 | 1.55                   | 4.05 |         |
| 300  | 1.09     | .865 | .710     | .915 | 1.45     | 1.14 | 1.71                   | 4.11 |         |
| 375  | 1.17     | .915 | .915     | 1.14 | 1.91     | 1.22 | 1.92                   | 4.18 |         |
| 450  | 1.30     | .990 | .990     | 1.22 | 2.06     | 1.30 | 2.16                   | 4.27 |         |
| 525  | 1.42     | 1.04 | 1.07     | 1.30 | 2.21     | 1.45 | 2.35                   | 4.45 |         |
| 600  | 1.52     | 1.09 | 1.14     | 1.37 | 2.44     | 1.52 | 2.53                   | 4.60 |         |
| 675  | 1.63     | 1.14 | 1.22     | 1.45 | 2.51     | 1.60 | 2.70                   | 4.72 |         |
| 750  | 1.73     | 1.22 | 1.30     | 1.52 | 2.67     | 1.68 | 2.83                   | 5.00 |         |

DIMENSIONS IN METRES

All dimensions are in millimetres unless otherwise shown.



ENGINEERING AND CONSTRUCTION SERVICES STANDARD DRAWING

DROP STRUCTURES OF MAINTENANCE HOLES

REV 2

APR 2014

T-1003.01

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SHEET 1