PLAN

DRAINAGE SERVICES DEPARTMENT

PRECAST CONCRETE MANHOLE
TYPE A

REFERENCE
DS 1023D
(SHEET 1 OF 3)

SCALE 1:25

MANHOLE COVER & FRAME UPDATED
ORIGINAL SIGNED
10.5.2010

REDRAWN BY CAD
ORIGINAL SIGNED
8.8.2001

GENERAL REVIEW
ORIGINAL SIGNED
2.2.2001

GENERAL REVISION
ORIGINAL SIGNED
27.12.1995

REV.
DESCRIPTION
SIGNATURE
DATE
PRECAST CONCRETE MANHOLE
TYPE A

MANHOLE COVER & FRAME LOCATED TO SUIT
TRAFFIC CONDITIONS TO BE DETERMINED ON SITE
(DRG. Nos. DS 1076 & DS 1077 REFERS)

1 TO 3 COURSES OF
BRICKWORK HAVING
AN AVERAGE COMPRESSION
STRENGTH OF NOT LESS THAN
48.5 Mpa

HEAVY DUTY PRECAST CONCRETE
COVER SLAB

150 mm GRADE 30/20 CONCRETE
SURROUND (CONSTRUCTION
JOINTS STAGGERED WITH THE
JOINTS BETWEEN PRECAST
SECTIONS)

STEP IRONS
300 c/c STAGGERED

CLASS
U3 FINISH

CLASS
F3 FINISH

1 IN 12

PRECAST CONCRETE CHAMBER
SECTIONS WITH 1:3 CEMENT
MORTAR JOINTS

STEP IRON SERVING AS
ANCHOR FOR STAINLESS STEEL
SAFETY CHAIN (PROVIDED FOR
PIPES OF 750 mm DIA AND
ABOVE)

FOOT HOLES AT 375 c/c
(PROVIDED FOR PIPES OF
750 mm DIA AND ABOVE)

DRAINAGE SERVICES DEPARTMENT

REFERENCE

DRAWING NO.

SCALE

DS 1023D
(SHEET 2 OF 3)

REV.

DESCRIPTION

SIGNATURE

DATE

D
MANHOLE COVER & FRAME UPDATED
ORIGINAL SIGNED
10.5.2010

C
REDRAWN BY CAD
ORIGINAL SIGNED
8.8.2001

B
GENERAL REVIEW
ORIGINAL SIGNED
2.2.2001

A
GENERAL REVISION
ORIGINAL SIGNED
27.12.1995
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES.

2. PIPE DIAMETER : 150 TO 1,950 mm

3. NORMAL RANGE OF DEPTH : 1,200 TO 3,000 mm (MEASURED FROM ROAD LEVEL TO LOWEST INVERT)

4. USED IN : STORMWATER DRAIN AND SEWER

5. CHAMBER SECTION : SEE TABLE 1

6. JUNCTION : POSITION OF JUNCTION TO BE DETERMINED IN EACH INDIVIDUAL CASE CHANNELS IMMEDIATELY UNDER ACCESS TO MANHOLE SHOULD BE AVOIDED.

7. TOP TREATMENT : SEE DRAWING No. DS 1032

8. FOUNDATION : FOUNDATION OF MANHOLE VARIES WITH SITE CONDITION. THEREFORE, IT SHOULD BE DETERMINED ON SITE BY THE ENGINEER.

9. PRECAST CONCRETE MANHOLE COMPONENTS INCLUDING CHAMBER SECTIONS, SHAFT SECTIONS, COVER SLABS, REDUCING SLABS AND TAPERS SHALL COMPLY WITH THE REQUIREMENTS OF BS 5911

<table>
<thead>
<tr>
<th>OUTLET PIPE DIA. D (mm)</th>
<th>MINIMUM CHAMBER SECTION DIA. A (mm)</th>
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<tr>
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<td>2,700</td>
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</tbody>
</table>

TABLE 1

DRAINAGE SERVICES DEPARTMENT
PRECAST CONCRETE MANHOLE TYPE A

REFERENCE DRAWING No. SCALE

DS 1023D (SHEET 3 OF 3)