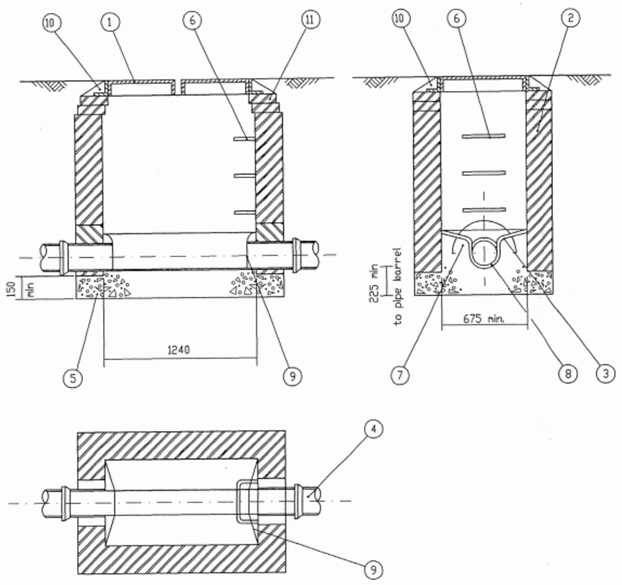


BRICKWORK MANHOLE

1. Multiple ductile iron cover and frame shall be Stanton plc 'Briton' Type H2DN or similar approved to BS EN 124 Class D400. Frames shall have a minimum clear opening of 1220mm x 685mm and be bedded on a minimum of of 12mm of 1:3 cement/sand mortar.
2. 225mm Class B engineering brickwork. Precast concrete units surrounded with concrete Mix ST4 to give a total thickness of 225mm may be used as an alternative.
3. 25mm min. granolithic concrete rendering.The concrete to compose of 1 part cement,3 parts of granolithic all-in aggregate to BS 882:1992 by volume and mixed in an approved manner. The surface of the concrete benching is to be brushed free from dirt and thoroughly soaked with water, the rendering shall then be spread over the surface and screeded to a uniform surface, floated with a wooden float and trowelled with a steel trowel. Curing to be carried out for 7 days. Fall to soffit of pipe to be not less than 1:30 and not more than 1:10. All benching to be to orientation of pipe runs with side connections turned towards direction of flow.
4. Pipes built into chamber walls and rocker pipes provided(length as table below)
5. Mix ST4 concrete foundation and benching. Gradient of benching to be not less than 1:30 and not more than 1:10.
6. Galvanised mild steel step irons at 300mm centres vertically.
7. Arch over pipe.
8. Inverts to be constructed using preformed half circle channels.
9. Pipe joint with channel to be located inside face of chamber.
10. Class 1 mortar haunching to cover and frame.
11. Brickwork corbelled to suit cover.

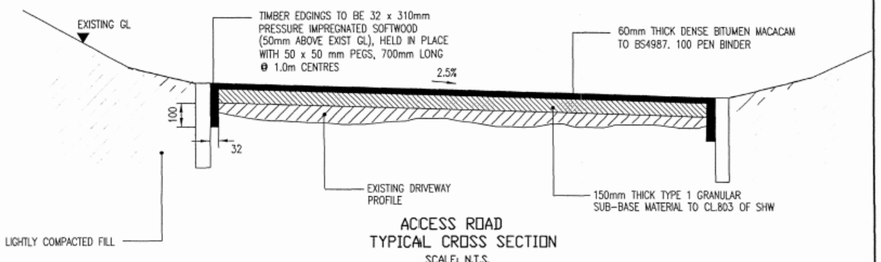
NOTES

a. Manhole covers and frames shall be marked with the following initials:-
Foul manholes -FW
Surface water manholes -SW

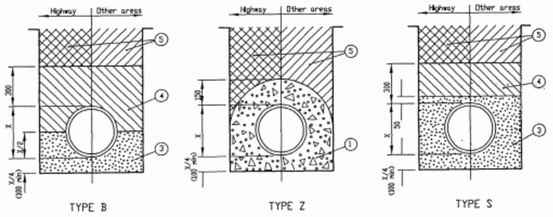
b. The length of rocker pipes are to be in accordance with the table below:-

Nominal Diameter (mm)	Effective Length (m)
150 to 600	0.6
675 to 750	1.0
825 and over	1.25

SEE DRG T270-01 FOR PAVMENT CONSTRUCTION DETAILS



ACCESS ROAD
TYPICAL CROSS SECTION
SCALE: N.T.S.



TRENCH AND BEDDING DETAILS, SEWERS AND DRAINS

1. Concrete Mix ST4.
2. NOT USED
3. Pipe bedding material evenly compacted.
4. Class B lower trench fill compacted by hand.
5. Trench backfill within the Highway to be Granular Type 2 material Trench backfill in other areas to be acceptable material.
6. Pipe bedding material.

NOTES

a. All dimensions are in millimetres.

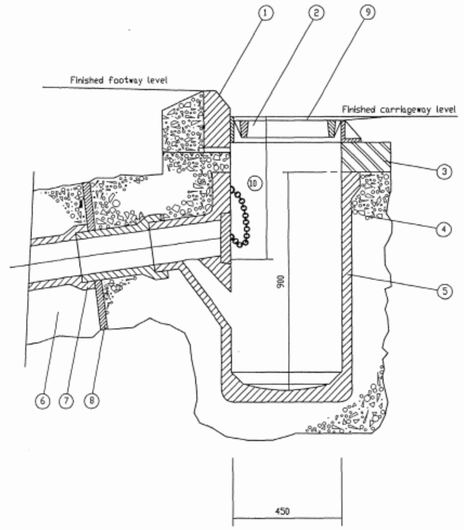
b. Dimension 'x' is the external diameter of the pipe.

c. For Type Z trench the concrete cover may be formed to a radius, batter or horzontal surface. Minimum cover of concrete shall be 150mm.

d. For trench Type Z A flexible construction joints IS to be formed in the concrete to coincide with each pipe joint with preformed joint filler. Thickness of filler board to be 25mm.

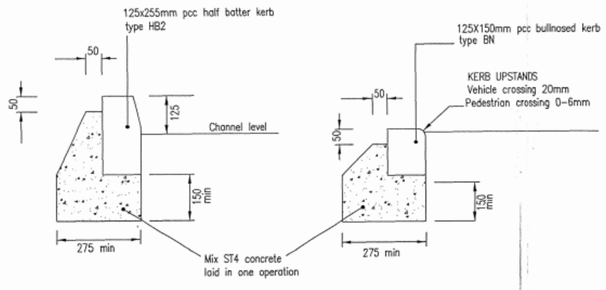
e. The minimum and maximum trench widths are as follows:-
Minimum = X+300
Maximum = X+600

For measurement purposes the volumes of hard breakout or imported backfill to trenches shall be calculated using the mean of the minimum and maximum trench widths.



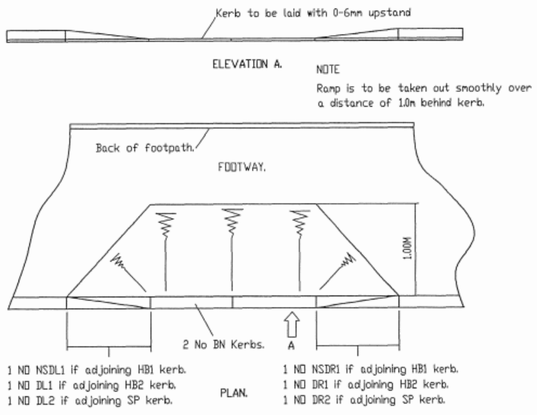
GULLY TYPE 1 (SINGLE CHANNEL INLET)

1. Kerb as specified.
2. Heavy duty double triangular gully grating and frame Class C250 to BS EN 124:1994 The frame shall be set in 1:3 cement/sand mortar (minimum 10mm, maximin 25mm thick).
3. Engineering brickwork Class B 225mm thick with 1:3 cement/sand mortar joints
4. 200mm Concrete surround Mix ST1
5. PVC-u gully pot liner(Marley Ref UMA49 or similar approved)
6. Type Z trench construction (concrete surround).
7. Flexible joint.
8. Compressible material
9. Gully cover set 5 +/- 3mm below finished carriageway level.
10. Depth of outlet invert to be 750mm below top of gully grating.

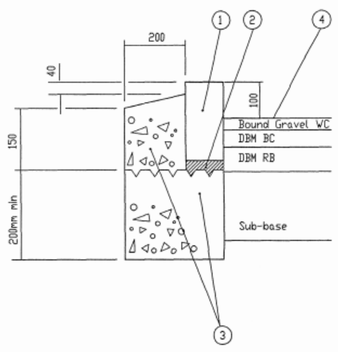


HALF BATTERED KERB DROPPED KERB

ADOPTABLE KERBING DETAILS



DROPPED KERB CROSSING DETAIL.



1. Countryside Kerb as specified
2. 1:3 cement/sand mortar 10mm minimum, 40mm maximum.
3. Bed and backing MIX ST4 concrete.
4. Final pavement level.

PARKING AREA KERB DETAIL

NOTES:

1. DO NOT SCALE FROM THIS DRAWING, WORK FROM FIGURED DIMENSIONS ONLY. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE STATED.
2. ALL LEVELS RELATE TO SURVEY DATUM.
3. ALL COORDINATES RELATE TO LOCAL SURVEY GRID.
4. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATION AND ALL OTHER RELATED DRAWINGS ISSUED BY THE ENGINEER FOR THE WORKS.
5. ALL DIMENSIONS, LEVELS AND SURVEY GRID COORDINATES TO BE CHECKED ON SITE AND THE ENGINEER NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF THE WORKS.
6. NO DEVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS PERMITTED WITHOUT PRIOR PERMISSION FROM



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DETAILS TO COMPLY WITH CONDITIONS 0518/1

Rev	Amendments	Drwn	Chkd	Date
E	ACCESS ROAD CROSS SECTION AMENDED	AMF		02/04/01
D	ACCESS ROAD CROSS SECTION AMENDED	AMF		29/03/01
C	ACCESS ROAD CROSS SECTION ADDED	AMF		27/03/01
B	PARKING AREA KERB DETAIL AMENDED	SH		01/2/01
A	PCC MANHOLE REPLACED BY BRICK MANHOLE	SH		25/1/01

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Job Title
EYRE COURT
WOKINGHAM

Drawing Title
INFRASTRUCTURE WORKS
CONSTRUCTION DETAILS

Client
MILLGATE HOMES

Scale	Date	Designed
NTS	DECEMBER 2000	CAD
Drawn	Checked	Approved
CAD	CBP	

Job No	Drawing No	Rev
T270	T270-03	E

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