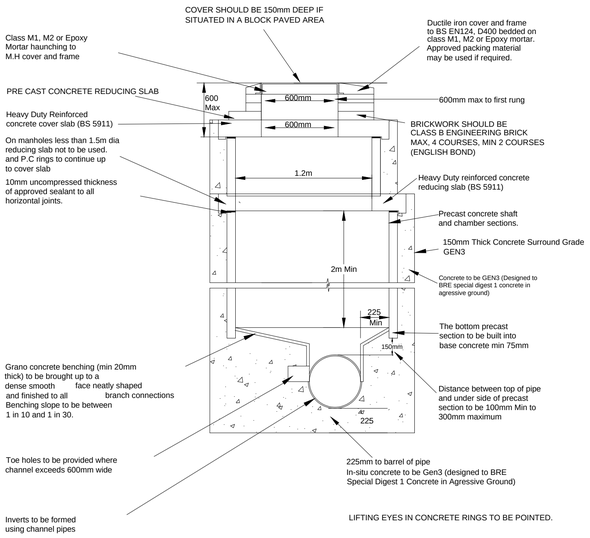
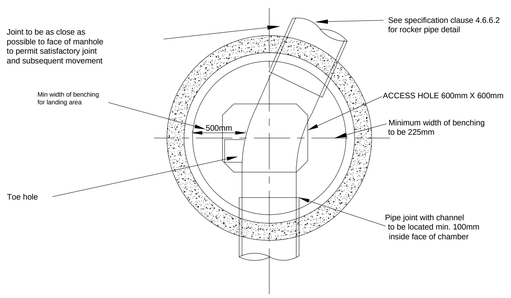
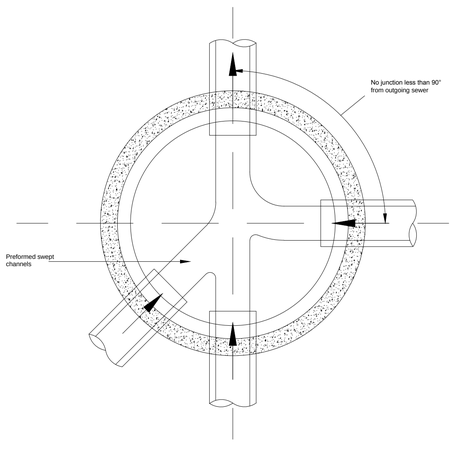



# Type A

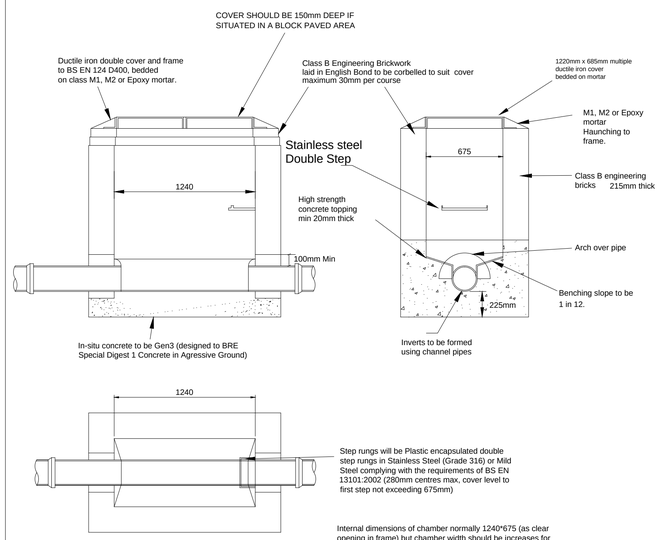
Depth GL to Soffit of Pipe 3 to 6m



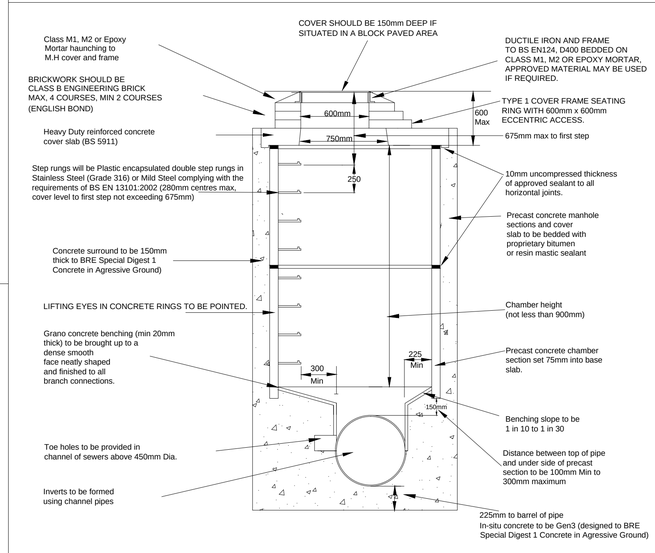

Pipes built into manhole should have a flexible joint as close as feasible to the external face of the structure and the length of the next rocker pipe should be as shown.

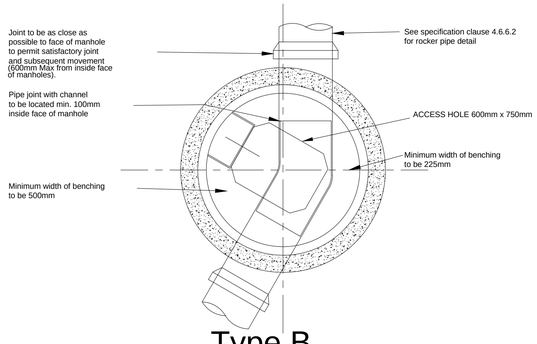
| Nominal dia (mm) | Effective length (m) |
|---|---|
| 150-600 | 0.6 |
| 601-750 | 1.00 |
| over 750 | 1.25 |

All pipes entering the bottom of the manhole to have soffits level.




# Type C



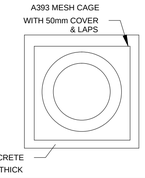



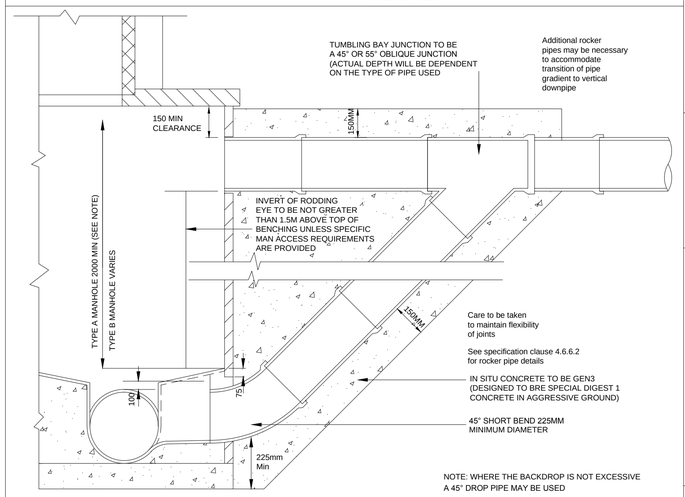

# Type B

Max Depth GL to Soffit of Pipe 3m

# REINFORCED CONCRETE BED AND SURROUND DETAIL

## COMPRESSIBLE FILLER TO BE USED AT ALL PIPE JOINTS




NOTE: WHERE THE BACKDROP IS NOT EXCESSIVE A 45° DROP PIPE MAY BE USED

# EXTERNAL RAMPED BACKDROP




| SHAFT DIAMETERS | |
|---|---|
| DIA OF LARGEST PIPE IN MH (mm) | INT. DIA OF MH (mm) |
| UP TO 375 | 1200 (FIXED) |

LIFTING EYES IN CONCRETE RINGS TO BE POINTED.




NOTE
IF PIPE DIAMETER EXCEEDS 375mm USE MH TYPE B OR C.

# MANHOLE TYPE E

Max Depth GL to Soffit of Pipe 1.5m

# ACCESS TO INVERT FOR PIPE DIA EXCEEDING 600mm




SECTION A-A

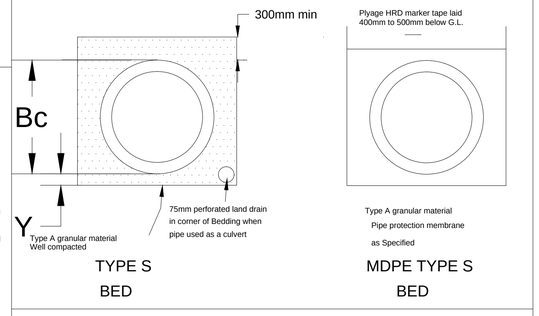
# NOTES

1. Definitions
   Bc Outside diameter of pipes
   DN Internal diameter of pipes

Dimension Y

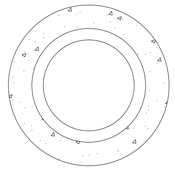
1/6Bc or 150mm min. for a 675mm diameter and above, whichever is the greater but not less than 50mm under sockets, for uniform soils

1/4Bc or 150mm min. up to a 600mm diameter, whichever is the greater but not less than 200mm under the sockets in rock or mixed soils




TYPE S BED

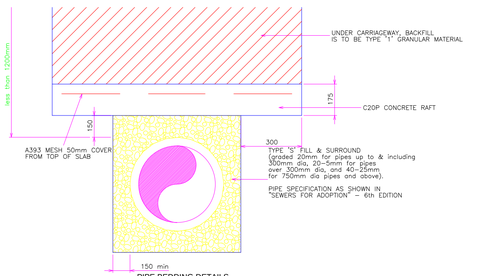
MDPE TYPE S BED



JOINTS TO BE WRAPPED IN DENSO TAPE AND FILLER BOARD TO BE PLACED AT EACH JOINT TO MAINTAIN FLEXIBILITY SFA6th CLAUSES 5.5.3 & 5.2.27

CESWI CLAUSES 2.19 & 5.3

150MM C20/GEN3 CONC BED AND SURROUND




PIPE BEDDING DETAILS
Where Sewers have depth to soffit of less than 1.2m under carriageway and 900mm under open space.
NOT TO SCALE

## NOTES

All Concrete to be GEN3 (Designed to BRE special digest 1 concrete in agressive ground), D2 Chambers with outgoing Pipes of 600mm dia or larger shall be fitted with Stainless Steel Safety Chains (Grade 316) to Cl 4,2,35,1/2

Rocker Pipes

| Nom Dia | Effective Length |
|---|---|
| 150 - 600 | 0.6m |
| 675 - 750 | 1.0m |
| 825 + Over | 1.25m |

ALL PIPES ENTERING OR LEAVING MANHOLES SHALL HAVE A FLEXIBLE JOINT WITHIN 600mm OF THE INSIDE FACE OF THE MANHOLE. THE NEXT PIPE SHALL BE A SHORT "ROCKER PIPE" LENGTH AS ABOVE.

Manholes Diameters

| Diameter of largest pipe Manhole in (MM) | Internal diameter of Manhole (mm) |
|---|---|
| Less than 375 | 1200 |
| 375-700 | 1500 |
| 750-900 | 1800 |

WHERE MH COVERS ARE IN BLOCK PAVED AREAS THE COVER DEPTH SHOULD BE 150mm

All manhole covers to be Grade A D400 to BSEN124 and to be Badged 'FW' or 'SW'.

ALL ADOPTABLE DRAINAGE SHALL CONFORM TO THE DESIGN AND CONSTRUCTION GUIDE FOR DEVELOPERS, SEWERS FOR ADOPTION 6TH EDITION PUBLISHED BY WRC PLC AND ANY ANGLIAN WATER SERVICES ADDITION AND DELETIONS.

LIFTING EYES IN CONCRETE RINGS TO BE POINTED.

The first manhole upstream from the connection to the (existing) public sewer should, when constructed, be fitted with a screen in order to prevent debris entering the public sewer. The screen should not be removed until immediately prior to the occupation of the premises to be served by the sewer.

| REV | DATE | DESCRIPTION/REASON FOR ISSUE | APPR |
|---|---|---|---|
| AH | 21/11/18 | TYPE A COVER SLAB DIMENSIONS UPDATED | BMT |
| AG | 12/10/18 | TYPE E AND A UPDATED FROM AWA COMMENTS | BMT |
| AF | 23/08/17 | STEP RUNGS REMOVED FROM TYPE A | MRF |
| AE | 26/01/17 | NOTE ADDED FOLLOWING AW COMMENT | MRF |
| AD | 25/10/13 | TYPE E ACCESS REVISED | MRF |

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TITLE

STANDARD DETAILS MANHOLE & BEDDING DETAILS

| ORIG | DATE |
|---|---|
| M.B | SEPTEMBER 2014 |
| CHKD | SCALE N.T.S @ A1 |
| APPR | DRAWING NO SD50 REV AH |

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