



Plastic chambers and rings shall comply with Clause E2.31

Mortar bedding and haunching to cover and frame to Clause E6.7

Surface course

Binder course

Base course

Minimum 50 mm gap between slab and chamber unit

Flexible seal
(Seal needs to be watertight and provide a suitable specification for the details and material)

Temporarily cap shaft during construction

Cover complying with Clause E2.32

If distance from cover level to soffit of pipe is $> 1\text{m}$, access opening shall be restricted to 350 mm diameter or 300 mm x 300 mm

Class B engineering brickwork or precast concrete cover frame

Precast concrete slab or in-situ concrete slab to support cover and frame

Granular type I sub-base material to Clause E2.43 (thickness varies)

Minimum internal dimensions 450 mm diameter or 450 mm x 450 mm

Minimum 150 mm thick granular type I sub-base material to Clause E2.43 or GEN3 in-situ concrete surround complying with E4.1 and BRE Special Digest 1 in accordance with the manufacturer's instruction

Joints between base and shaft and between shaft components to be fitted with watertight seals

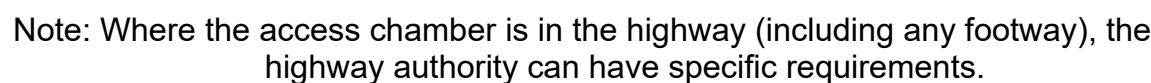
Base unit to have all connections with soffit levels set no lower than that of the main pipe

Joint to be as close as possible to face of chamber to permit satisfactory joint and subsequent movement

Granular bedding material

Invert of connecting pipe at least 50 mm above that of the main pipe

Figure B 23
Typical inspection chamber detail - Type E
Depth from cover level to soffit of pipe up to 2 m
Flexible material construction



- GENERAL NOTES:
1. Do not scale.
2. Refer to all other Project Drawings.
3. All sewers to comply with the requirements of Design and Construction Specifications for Sewers with Any Southern Water addendum.
4. All public sewers are to be the subject of a Section 104 agreement of the Water Industry Act 1991.
5. In order of existing manholes and sewers are to be checked on site before construction commences and results reported to engineers.
6. All manhole ironworks to comply with BS EN124, and with stamped cast iron manhole covers to suit loading as below:
 - Carriageways and Roads - D400
 - Driveways and Verges - C250
 - Footways and Pedestrian Areas - B125
7. Gardens/Landscaping - A15
8. All sewer pipes up to, and including 600mm are to be PVC-U to BS EN13476-2. Pipe manufacturer to be IWNL approved suppliers.
9. All drainage shall be installed and tested strictly in accordance with the manufacturers' printed instructions, BS EN 752, BS EN 1601, Thames Water requirements and the Building Regulations.
10. All bedding shall be Class S unless noted otherwise.
11. All trenches under existing and proposed public highways are to be bedded with thoroughly compacted Type 1 granular sub-base material.
12. Drainage laid beneath roads and areas of vehicular access (car parking etc) with less than 1200mm of cover shall be protected with concrete and surround with associated movement joints. Drainage laid beneath paths, footways and pedestrian areas with less than 900mm of cover shall be similarly treated.
13. Chambers with gouting pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
14. The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves that precast concrete is not susceptible to sulphate attack.
15. All gully connections to use a minimum diameter pipe of 150mm and to be surrounded by a minimum of 150mm of grade C8/10 concrete over its full length (which should not exceed 15m) and its connection to the carrier system.
16. All gullys to be 150mm laid at 1:80 (surface), 1:60 (10% unless otherwise noted).

DRAINAGE NOTES:

1. Do not scale.
2. Refer to all other Project Drawings.
3. All drains shall be in accordance with Document H of the Building Regulations, together with NHB Construction Chapter 5.3 & BS8301.
4. All private drains to be 100mm diameter unless stated otherwise.
5. Where pipes pass through footings, retaining or screen wall, joints to be provided over voids.
6. Where inverts are less than 0.6m deep, inspection chamber (min dia 190mm) or access fittings (225x100mm) to be used. Elsewhere proprietary plastic, brick or pipe can be used.
7. All drains to be made of unglazed vitreous or equivalent material.
8. All gullies connected direct to drains to be roadable.
9. Rainwater downpipes to be easily removable for rodding or on approved with rodding access at ground level.
10. Downpipes not otherwise PVC U & REs to be 0.6m below ground level, SW U & REs to be 0.45m.
11. Adequate precautions in accordance with Approved Code of Practice and relevant standards to be taken to ensure that drains to protect drains (particularly plastic) at shallow depth.

**ALL PIPE BEDDING TO BE
CLASS 'S' GRANULAR
SURROUND UNLESS NOTED
OTHERWISE ON THE
DRAWING**

P1	02/22	First Issue	CB	SM
Rev	Date	Description	Drawn	Checked



Client

REDROW HOMES

Project
LAND SOUTH OF A259,
ANGMERING

Title
FULL APPLICATION
DRAINAGE CONSTRUCTION
DETAILS SHEET 2

Status

FOR APPROVAL

Scale AS SHOWN@A1	Date FEB 2022	Drawn CB	Checked SM
Drawing No A334-FA-56			Revision P1