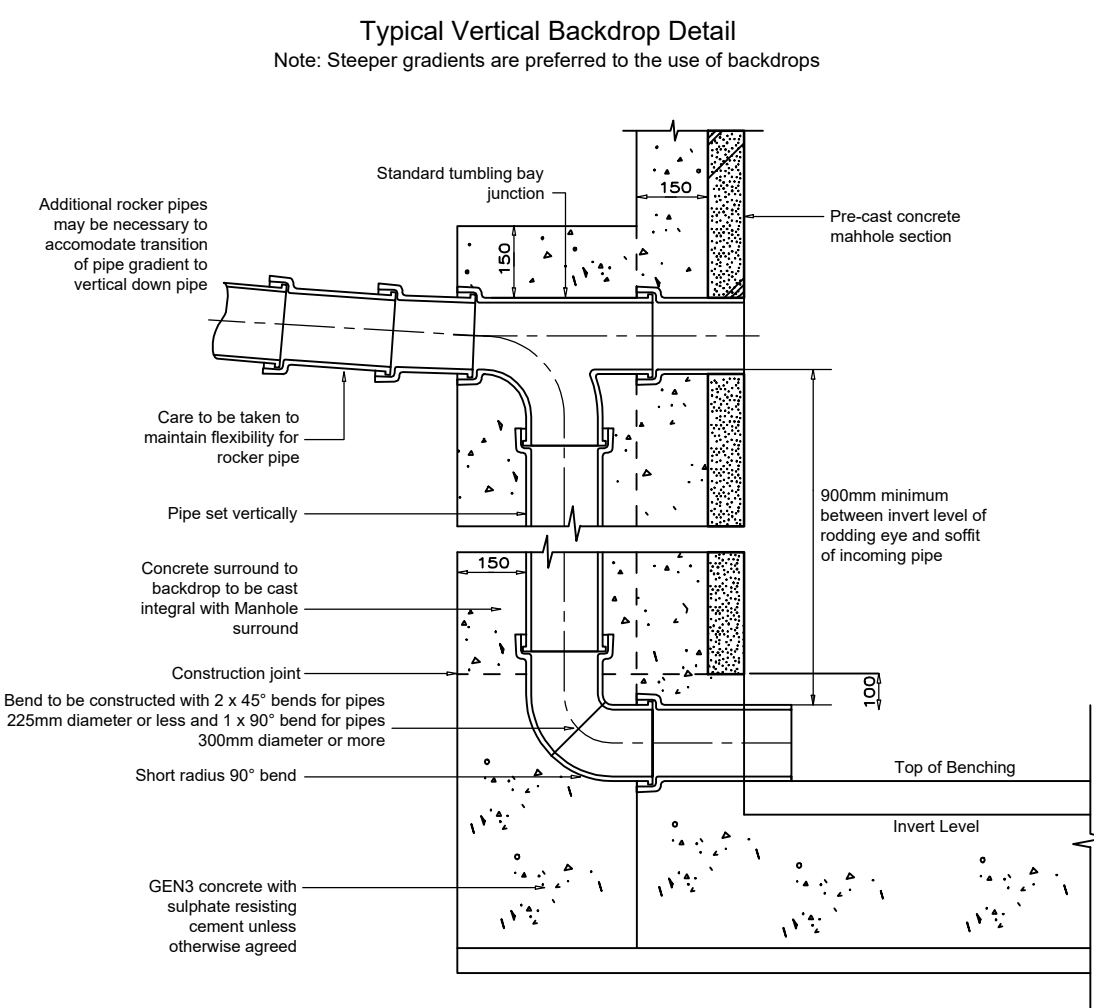
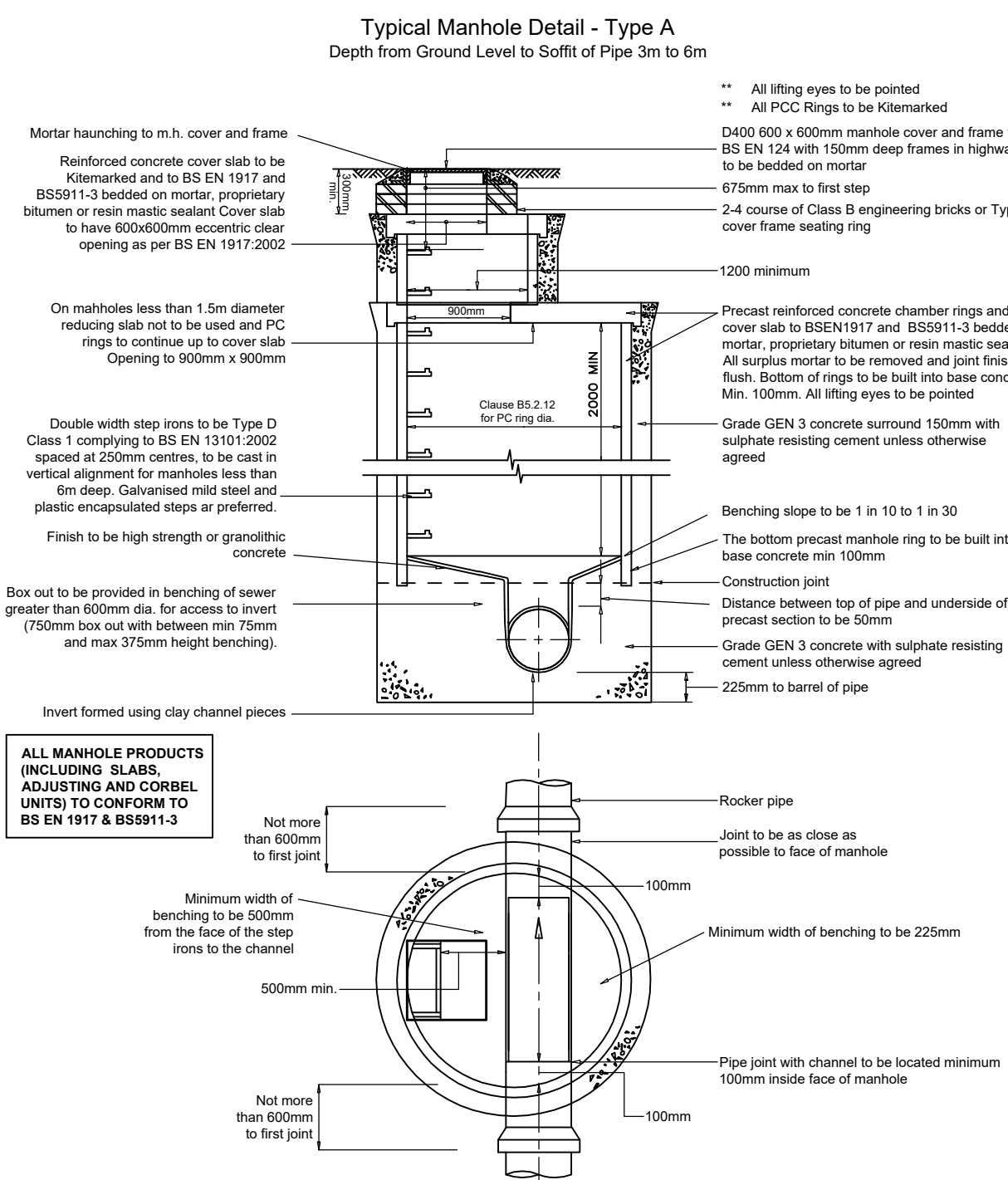




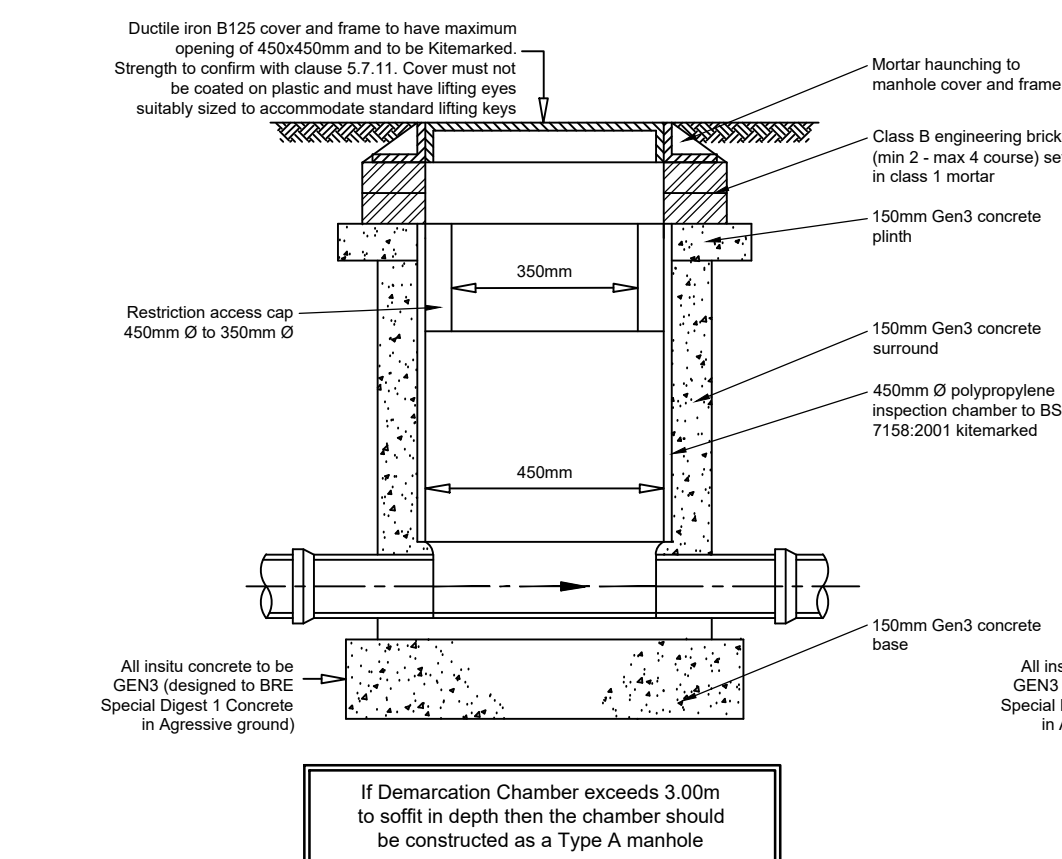
Typical Demarcation Chamber Detail TYPE D Reduced Access (RAPPIC)

Precast concrete chamber to BS 5911 Part 2 & BS8301 kitemarked upto 1.0m deep. Polypropylene inspection chambers to BS 7158:2001 kitemarked, minimum 450mm Ø upto 1.2m deep

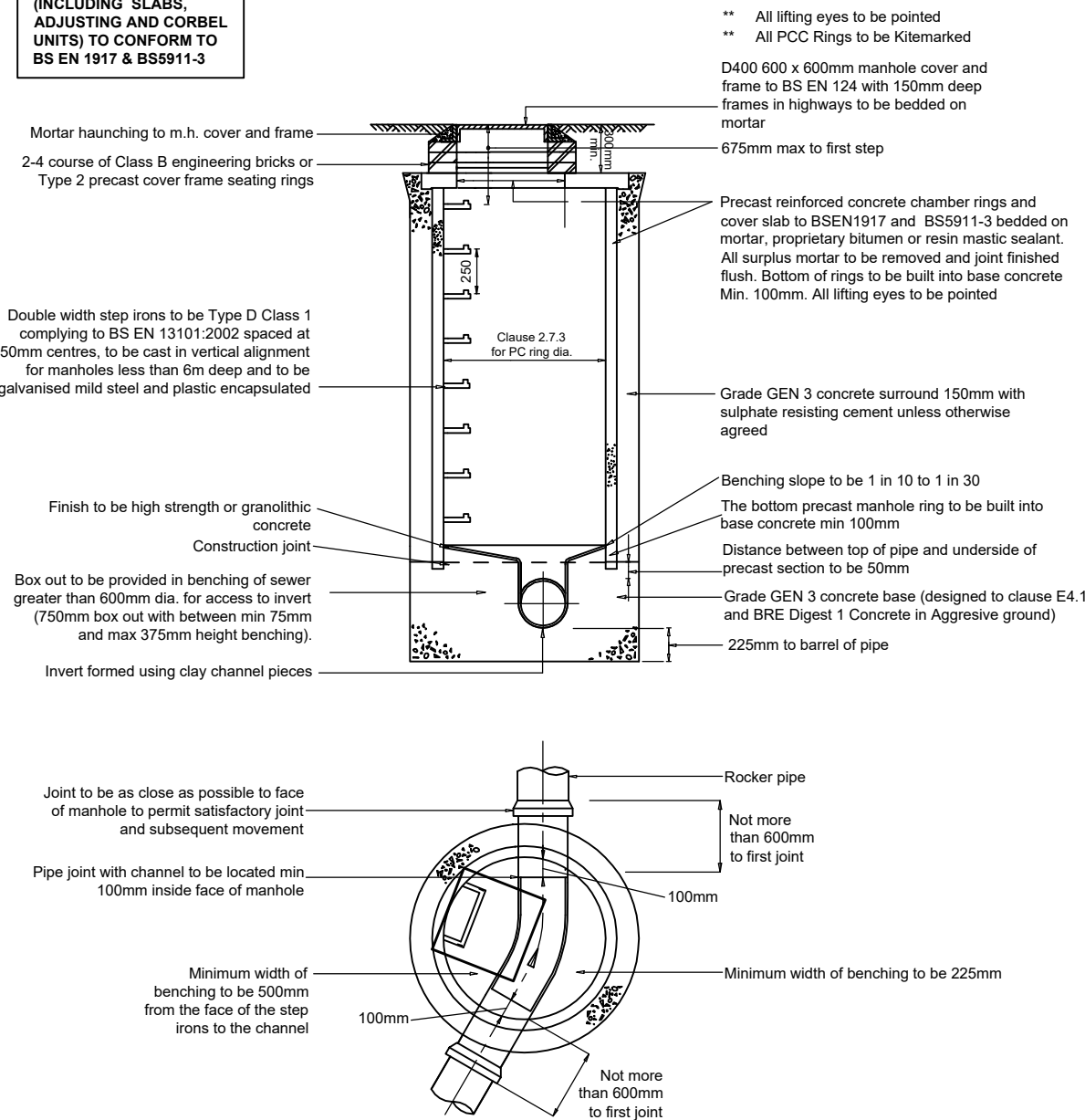
Depth from cover level to invert of pipe chamber greater than 1.2m

Maximum lateral drain diameter 150mm

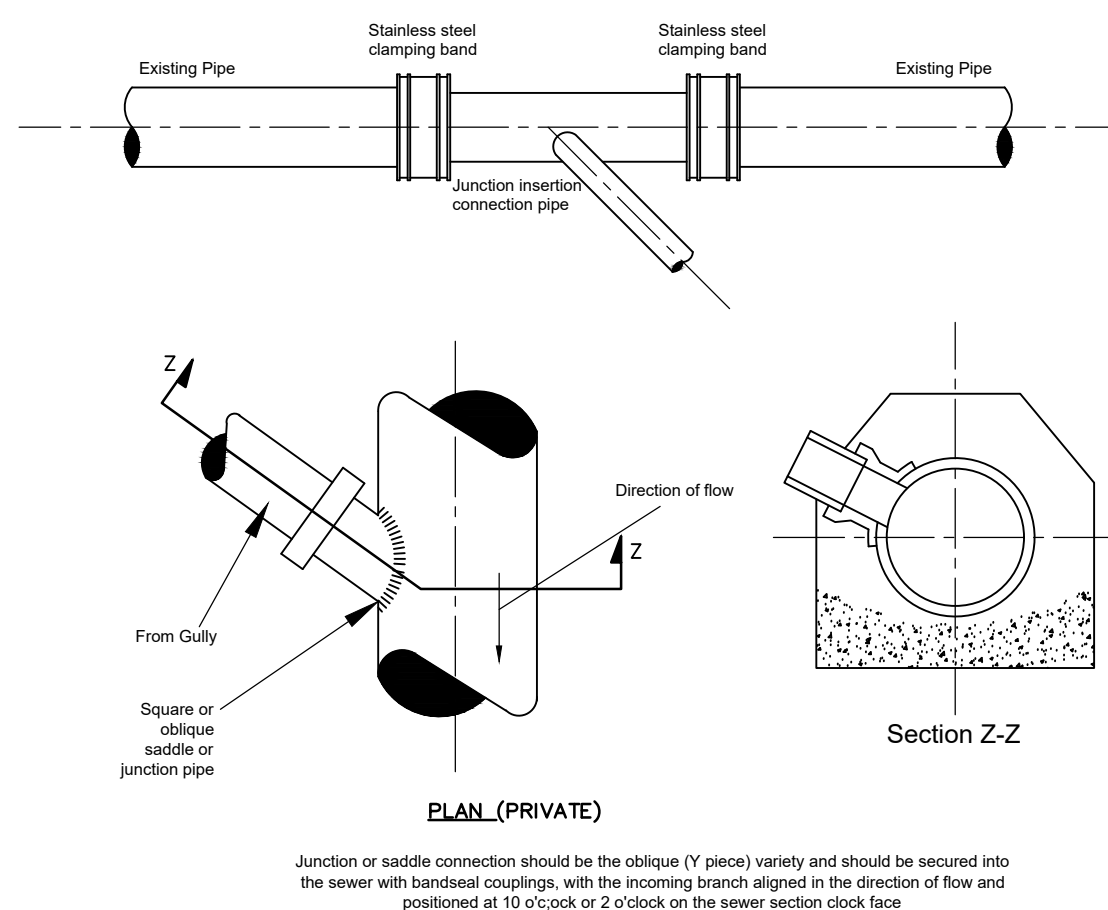
B125 cover should be used in driveways and soft landscaped areas and a D400 when located in trafficked areas



Typical Manhole Detail - Type B
Maximum Depth from Ground Level to Soffit of Pipe 3.0m



Propriety Junction Piece



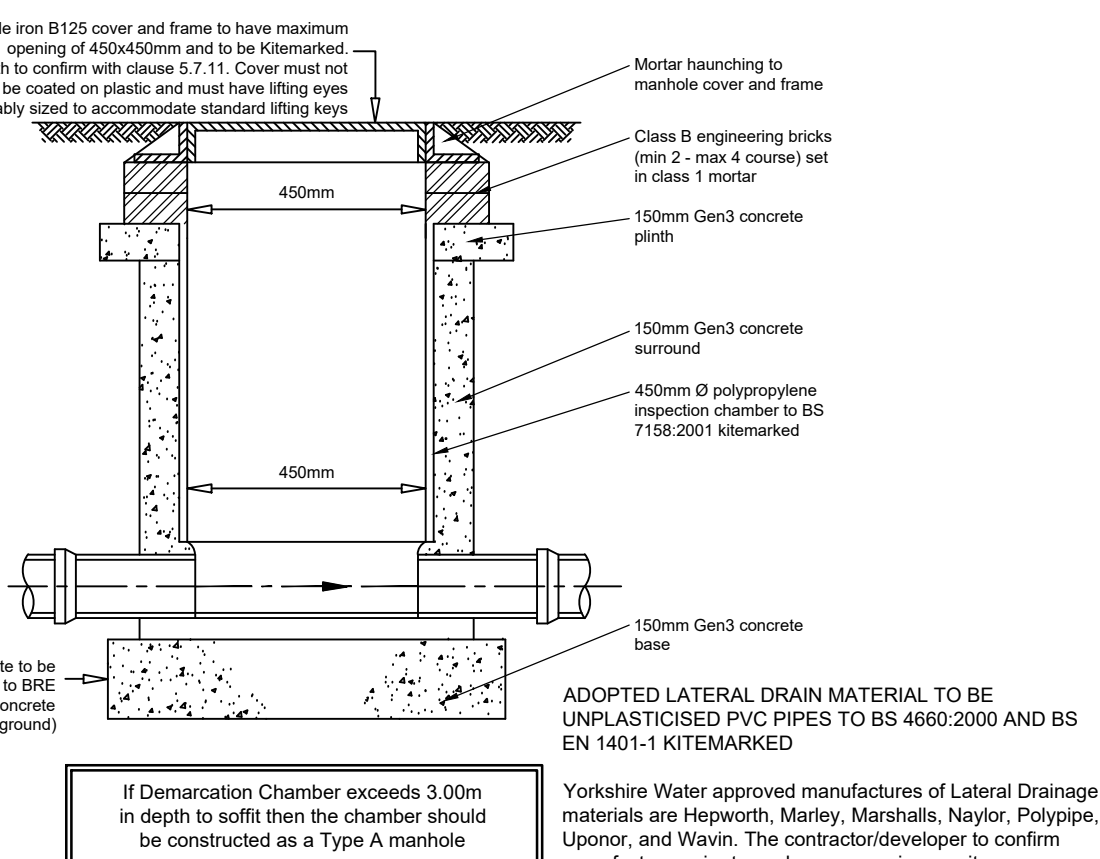
Typical Demarcation Chamber Detail TYPE D Normal Access (PPIC)

Precast concrete chamber to BS 5911 Part 2 & BS8301 kitemarked upto 1.0m deep. Polypropylene inspection chambers to BS 7158:2001 kitemarked, minimum 450mm Ø upto 1.2m deep

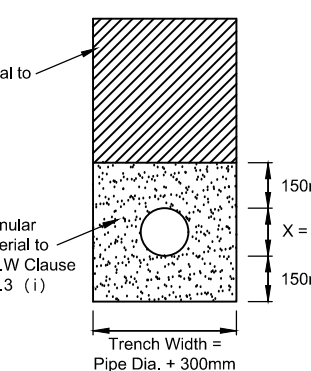
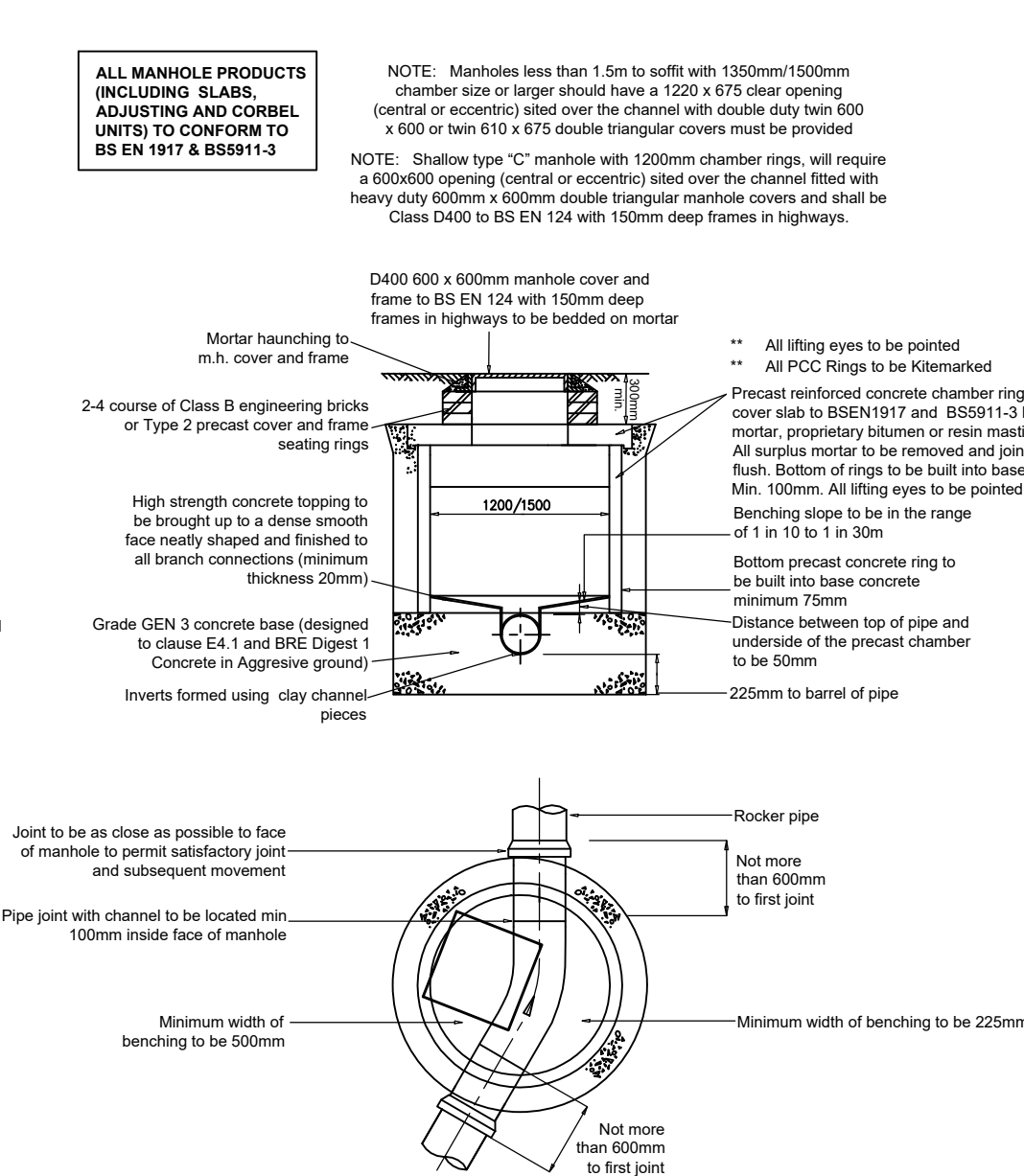
Depth from cover level to invert of pipe chamber less than 1.2m

Maximum lateral drain diameter 150mm

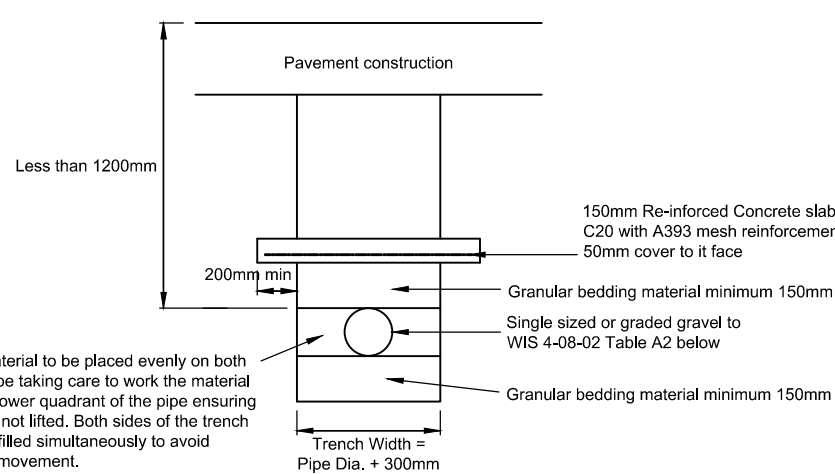
B125 cover should be used in driveways and soft landscaped areas and a D400 when located in trafficked areas



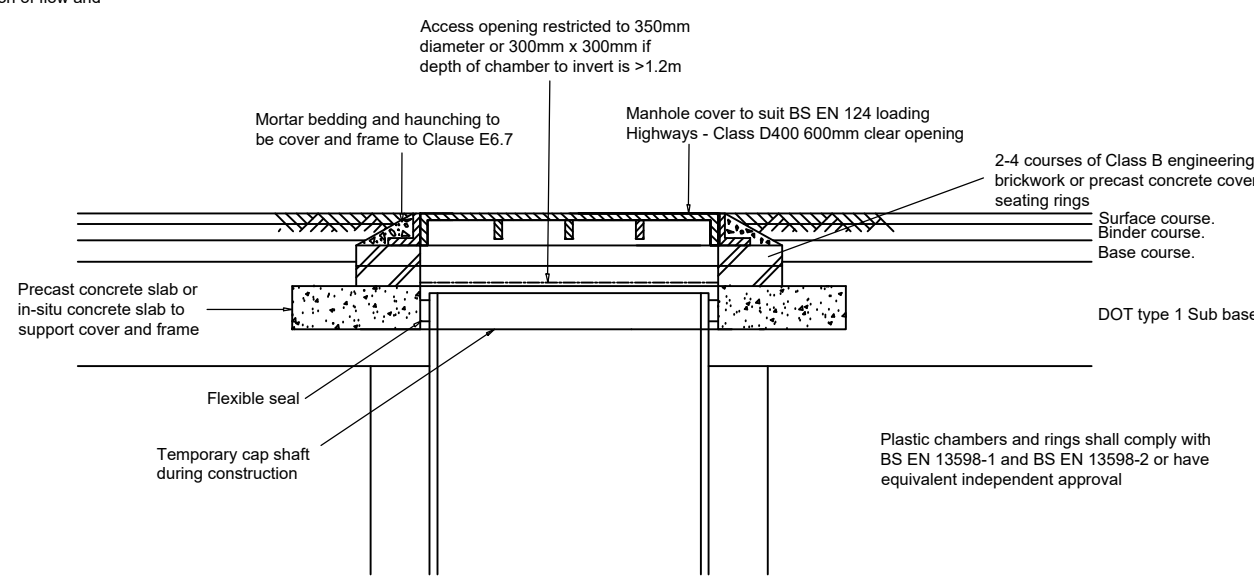
Typical Manhole Detail - Type C
Depth from Ground Level to Soffit of Pipe Less than 1.5m



TYPICAL CLASS B SURROUND DETAIL
N.T.S

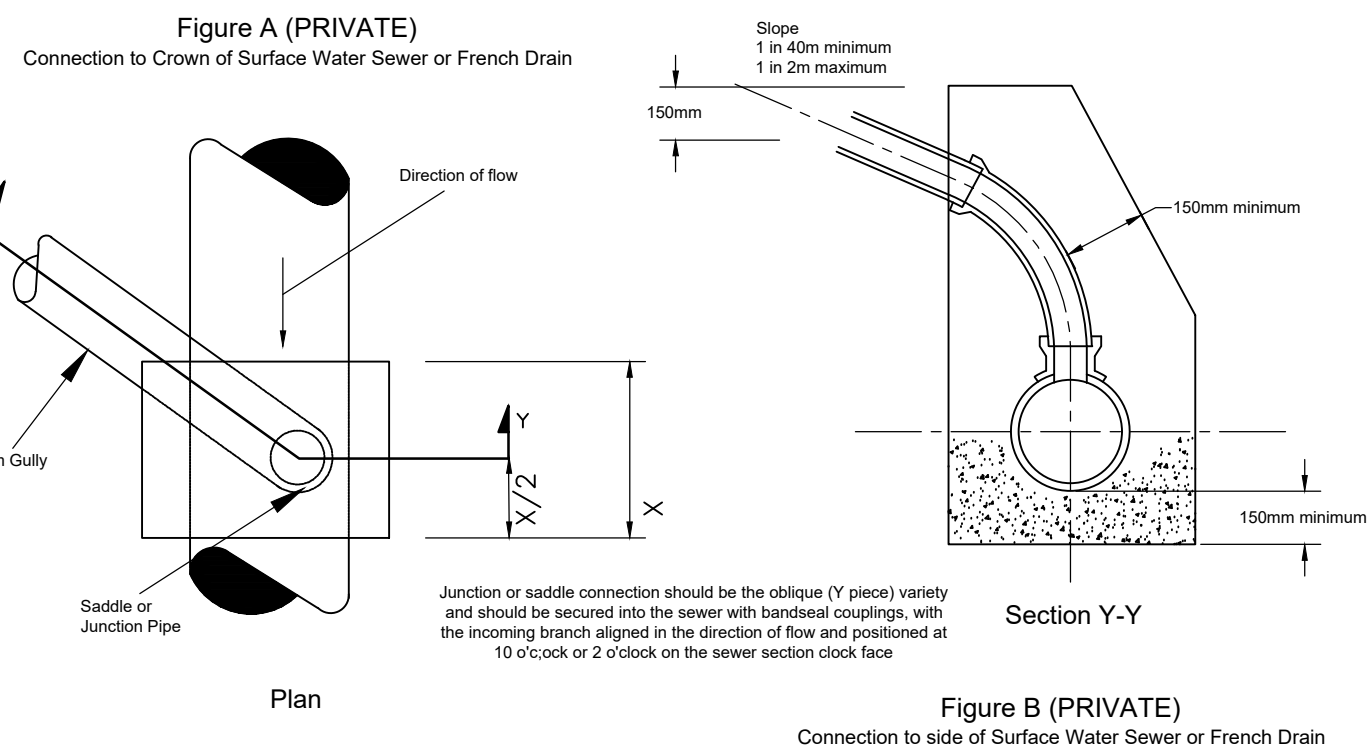


CONCRETE PROTECTION DETAIL
where cover is less than 1.5m in highway and less than 0.5m in landscaped areas
N.T.S

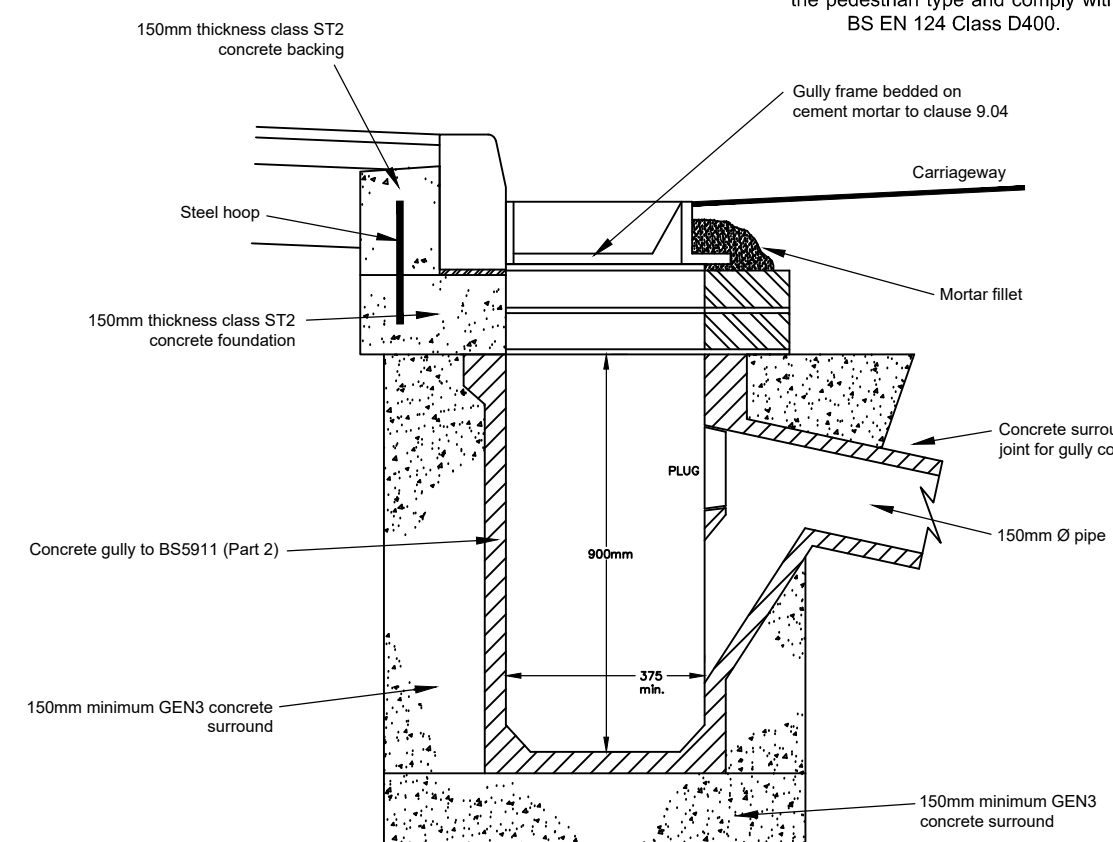


Typical Inspection Chamber Detail - Type 3 - D400 Cover

Saddles not appropriate for gully connections unless pipe diameter is in excess of 300mm



Private Precast Concrete Road Gully



YORKSHIRE WATER NOTES:

- All dimensions in millimeters unless stated otherwise.
- All adoptable sewer works and material to be in accordance with "Code for Adoption", The Relevant British/European and Yorkshire Water's Standards/Requirements/Local Practice for the Adoption of Small Submersible Foul and Surface Water Pumping Stations and must be Kitemarked".
- All oversized manhole products (circular vertical units, cover slabs, adjusting and corbel units) and all ancillary concrete products shall comply with the relevant provisions of BS EN 1917 and BS 5911-3+A1.
- All precast concrete units in oversized manholes must have a design working life of 100 year minimum in accordance with BS5500-1:2015+A2:2019 - Table A.5.
- Precast concrete manhole units including their PCC cover slabs shall be manufactured from concrete with a Design Chemical Class DC-4 unless satisfactory evidence through soil analysis can be provided that a lower class will resist attack from soils and ground water".
- Manhole covers shall/must have a clear opening of 600mm and shall be Class D400 to BS EN 124 with 150mm deep frames in highways.
- Filled ground must be filled and consolidated under the supervision and to the satisfaction of the Yorkshire Water before any sewer works are carried out.
- Yorkshire Water is not obliged to accept filter drain/land drainage run-off into the public sewer network or adoptable drainage system (directly or in-directly). An alternative method of disposal of the land drainage run-off will therefore be required and you will have to liaise with the Local Authority, Land Drainage Section with regard to the disposal of the filter drain/land drainage run-off.
- Cover slabs must carry the BSI Kitemark or will be rejected by the Yorkshire Water Inspector. Where the clear opening of the Kitemarked product is different to that of the cover and frame, a loading bearing slab should be fitted above the cover slab to bring the size down to 600mm x 600mm for the Yorkshire Water specified cover size. Please refer to Concrete Pipe Systems Association (CPSA), 'Technical Bulletin' issued Autumn 2004 for Kitemarked cover slab opening sizes.
- The adoptable sewers should be a minimum of 1m and manholes 0.5m from kerb faces and service margins.
- "Sewers must have 5 metres clearance from trees and hedges or the width of the canopy at mature height (please also refer to Design and Construction Guidance for restrictions on tree planting adjacent to sewers).
- Sewers to be laid in Class "S" Bedding (150mm granular bed and surround). Where depth of cover to top of the sewer is less than 1.2m in highways and verges (or less than 900mm in none vehicular access areas) then a concrete slab should be provided above granular bed and surround.
- Bedding and backfill material to conform to the requirement of Water Industry Specification 4-08-02 (Table A1).
- The chamber size of manholes with more than one connection in them may need to be increased an increment to accommodate the connections and bends.
- Yorkshire Water's policy is that brick manholes and 1050mm diameter manhole rings are not preferred. Instead, it is preferred that you use a type "B" manhole with 1200mm diameter, 1350mm diameter or 1500mm diameter rings, with the opening sited over the channel where depth of cover to pipe soffit is 1 - 1.5m
- Adoptable plastic sewer pipes to be BSI Kitemarked (certified to WIS 4-35-01 and BS/EN13476). Adoptable plastic sewer pipes to be laid in maximum 3 metre lengths unless there is a specific operational need to lay longer lengths. Plastic channel sections in manholes are not acceptable and Yorkshire Water would prefer clayware channel in manholes. We have found that plastic channels are difficult to set in concrete because they float and a satisfactory finish cannot be obtained on the benching.
- The minimum crushing strength for clay pipes should be as follows: 100mm dia. 40KN/m, 150mm dia. 40KN/m, 225mm dia. 45KN/m and 300mm dia. 72KN/m. The minimum crushing strength for concrete pipes should be - (Class 120 to BS EN 1916/BS5911-1 2002). Plastic pipes should conform to WIS 4-35-01 and BS EN13476.
- Where a B125 cover and frame has been approved, this must not be coated in plastic and must have lifting eyes suitably sized to accommodate standard lifting keys. Screw down covers are not acceptable.
- There should be enough clearance at crossovers to accommodate bedding to both pipes, approx. 300mm : if crossover is near the rocker then the clearance needed may be increased".

ADDITIONAL INFORMATION

KIRKLEES COUNCIL REQUEST THAT A "CONSTRUCTION COMPLIANCE CERTIFICATE" TOGETHER WITH "AS BUILT" DRAWINGS ARE SUBMITTED UPON THE COMPLETION OF THE WORKS. IN ADDITION, ALL REFERENCES TO "KITEMARK" MUST BE ACCOMPANIED WITH THE CORRESPONDING BRITISH STANDARD FOR THEM TO BE MEANINGFUL AND RELEVANT.

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C	07.04.26	Details updated in response to Yorkshire Water's comments date 01.04.26	NB		
B	19.03.26	Demarcation chamber standard detail updated	NB		
A	09.03.26	Details updated in response to Yorkshire Water's comments dated 04.03.26	NB		
Rev:	Date:	Amendment:	DRN	CHK	APR

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Client:	Chartford Homes		
Status:			
Scale: NTS	Drawn: NB	Chkd: IE	Appvd: JP
Size: A1 - 841 x 594			
Project:	Residential Development, Northorpe Lane, Mirfield		
Title:	Drainage Standard Details		

Drawing No:	25/376/500/004	Revision:	C
Job No:	25-376	Date:	12/12/25