

Diameter of largest pipe in manhole (mm)	Internal diameter of manhole (mm)
Less than 375	1200
375 - 700	1500
750 - 900	1800
Greater than 900	Contact Undertaker

Note: Chamber with outgoing pipes 600mm or greater dia. shall be fitted with removable stainless steel (grade 316) safety chains or polypropylene rope.

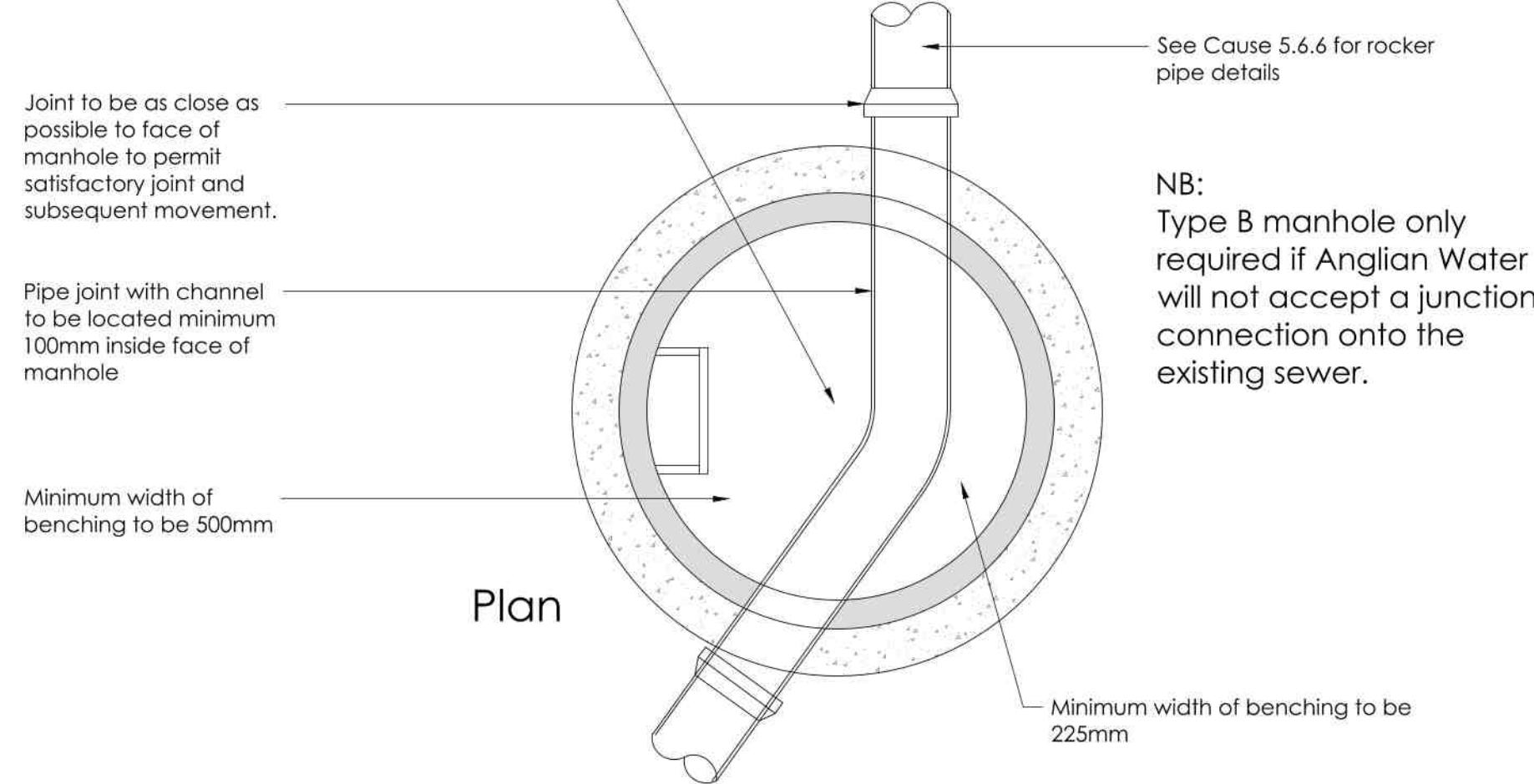
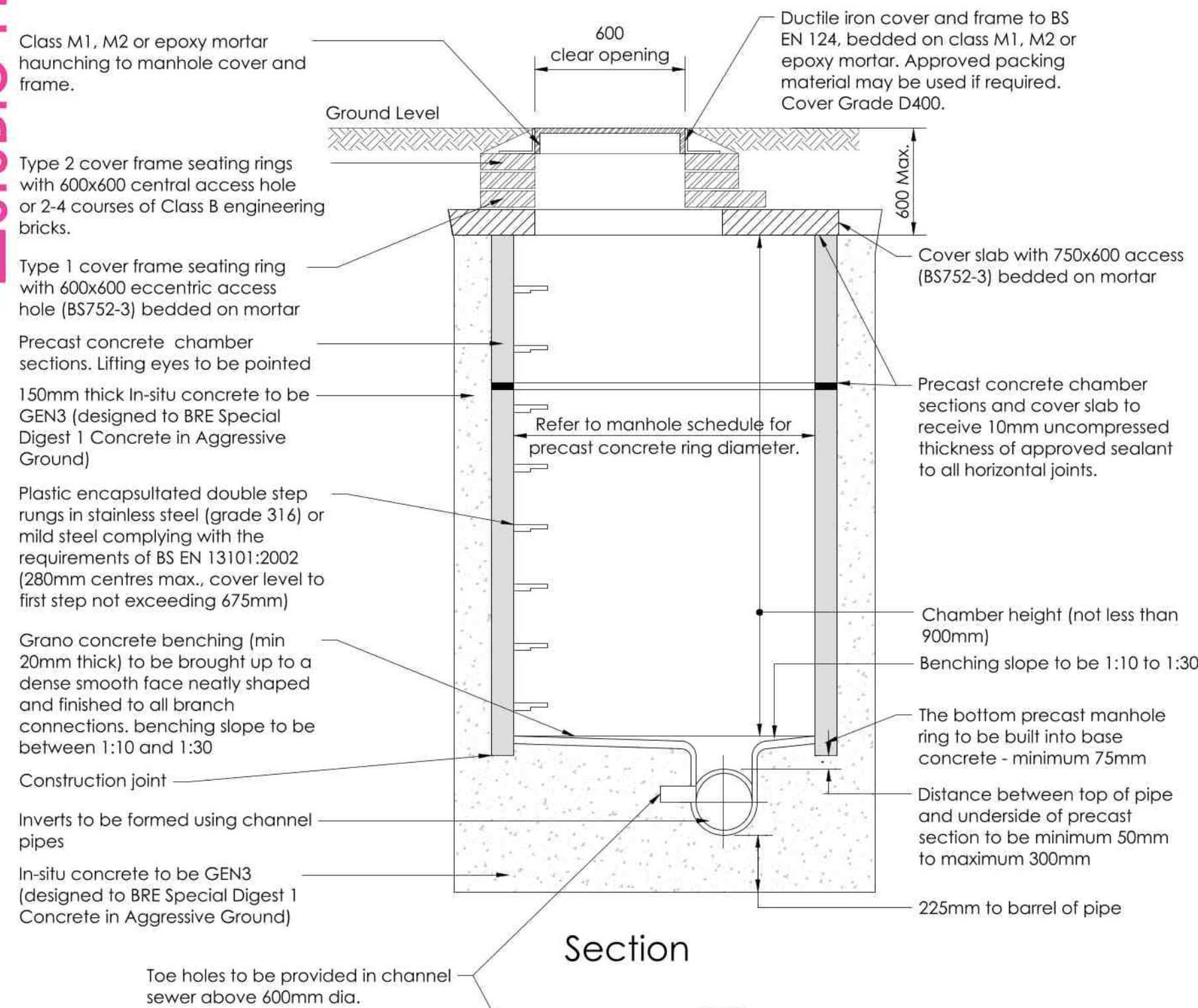


Figure 2.5: Typical Manhole Detail - Type B
(Depth to soffit of pipe 1.5m - 3.0m)
(Scale 1:20)

Nominal diameter (mm)	Effective length (m)
150 to 600	0.6000
675 to 750	1.0000
825 and over	1.2500

5.6.6 Pipes and Joints Adjacent to Structures

1. A flexible joint shall be provided as close as is feasible to the outside face of any structure into which a pipe is built. The Design of the joint shall be compatible with any subsequent movement.
2. The recommended length of the next pipe (rocker pipe) away from the structure shall be as shown in table 5.14
3. Stub pipes into the structures shall be of rigid material.

Manhole Type E Shaft Diameters	
Dia. of largest pipe in MH (mm)	Internal dia. of MH (mm)
Up to 375	1200
Over 375	Use type B or C

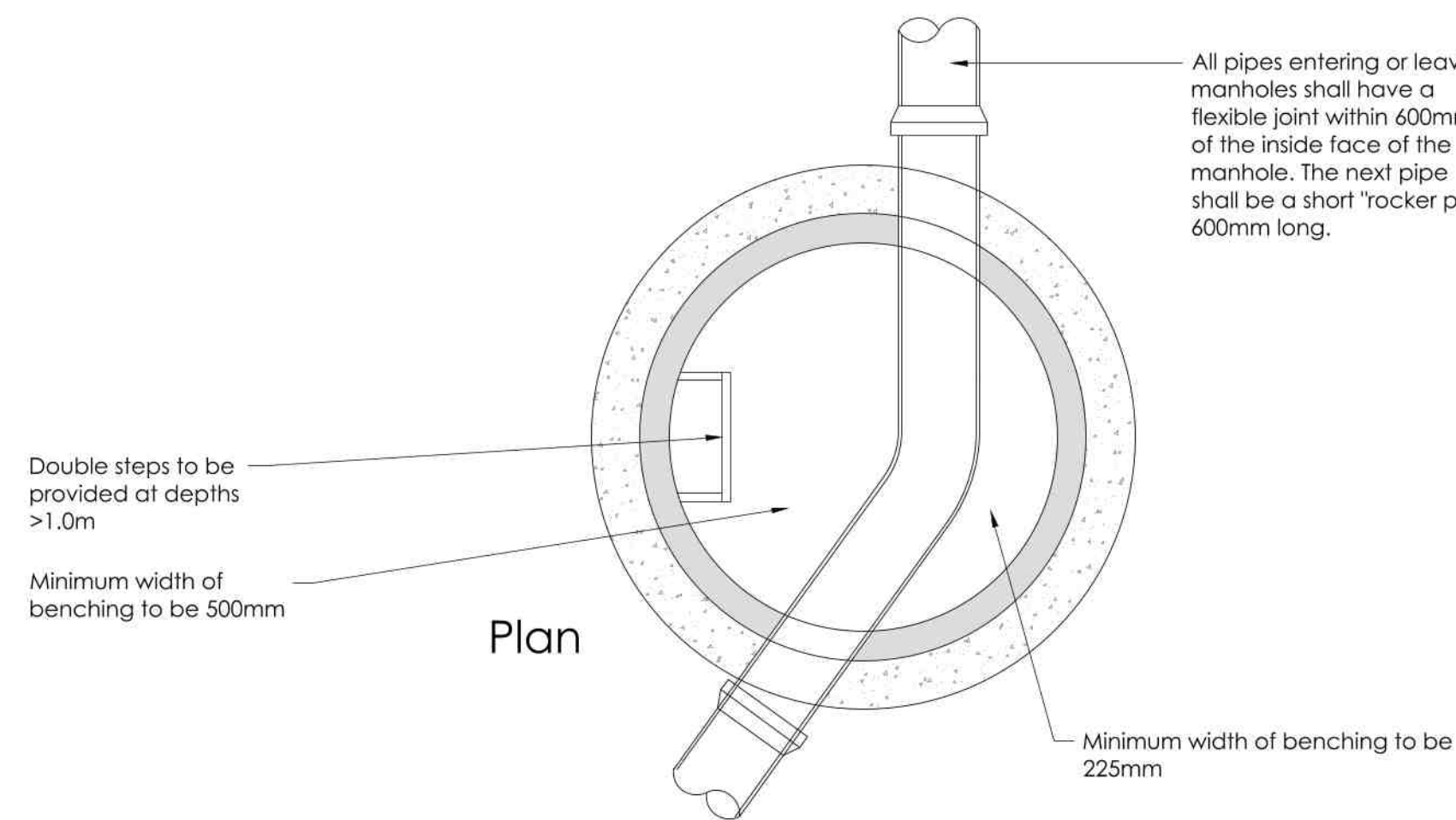
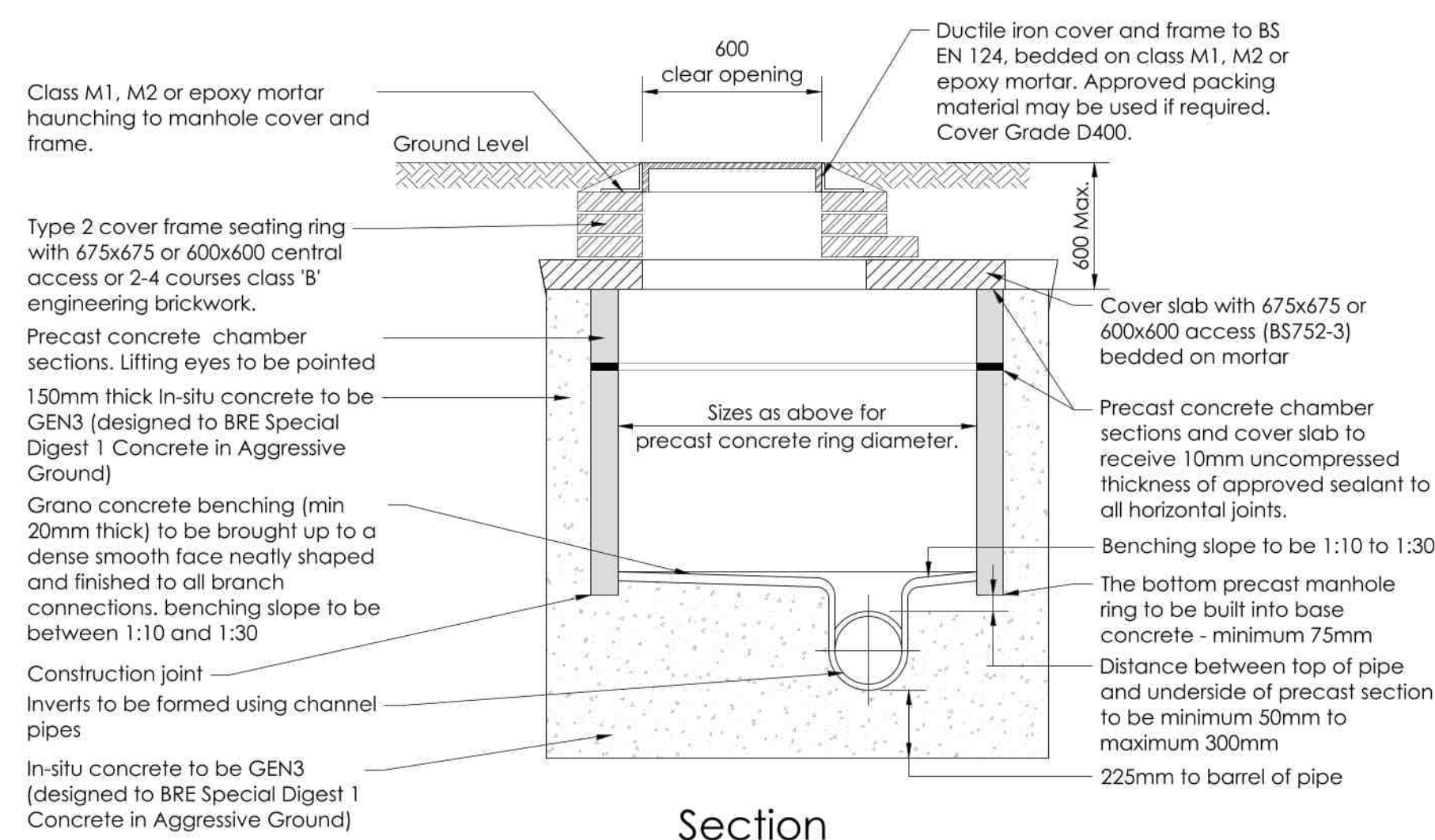
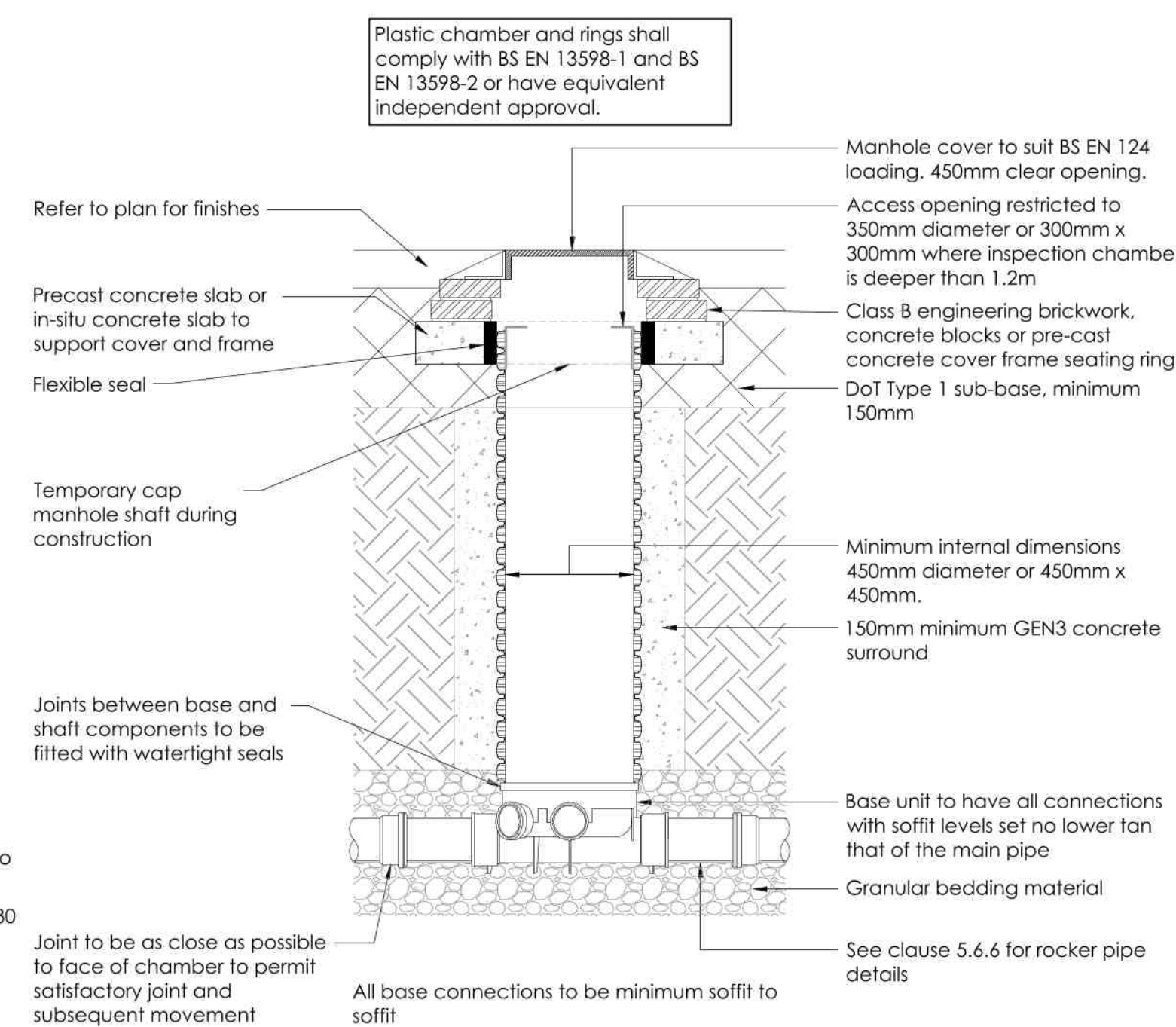


Figure 2.8: Typical Manhole Detail - Type E
(Depth to soffit 1.0m - 1.5m)
(Scale 1:20)



Typical Demarcation Chamber Detail
(Flexible material detail -denoted PPIC)
In areas subject to vehicular loading
Maximum depth 3m (over 1.2m deep - non-access)
(Scale 1:20)

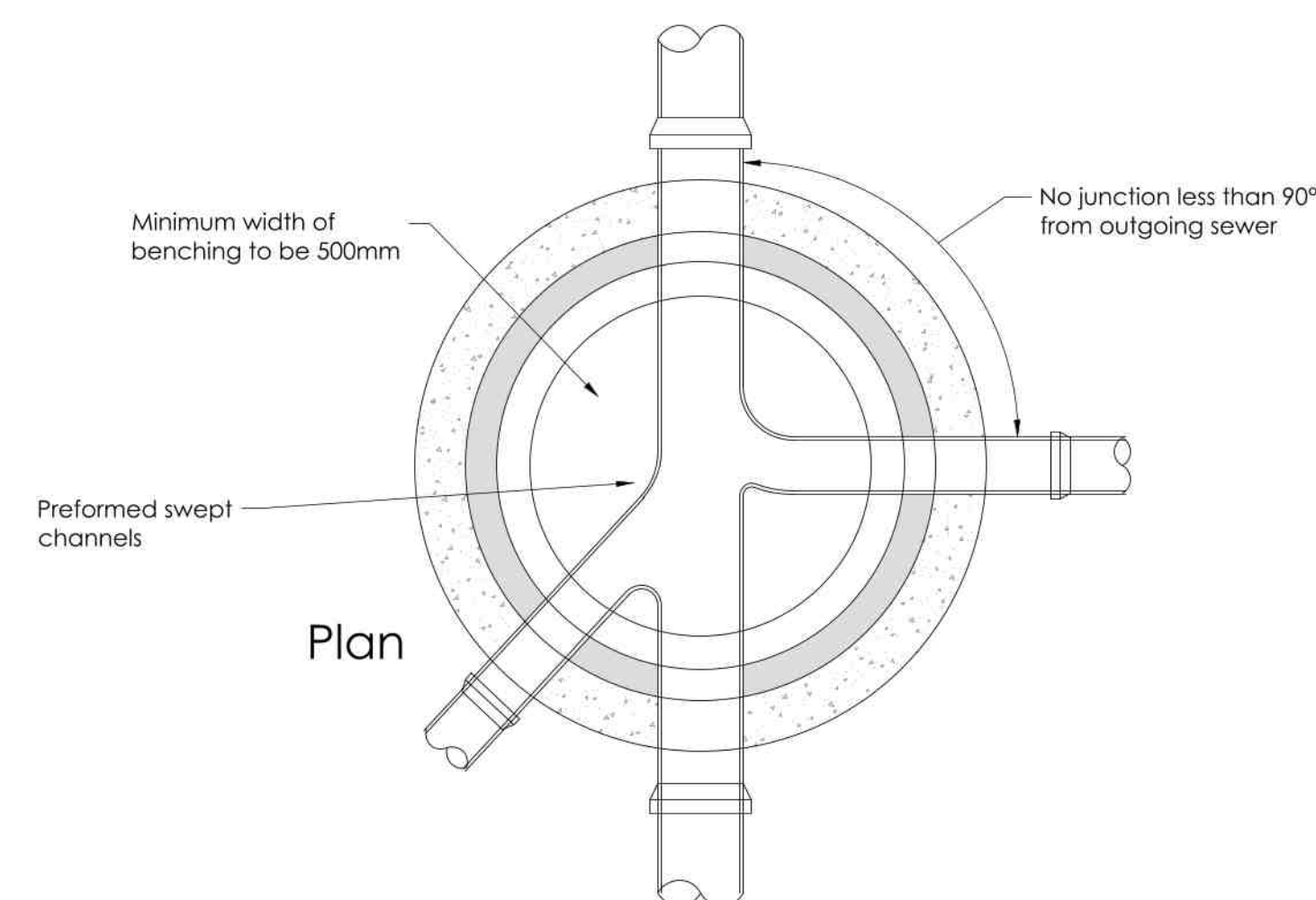


Figure 2.9 Typical Arrangement of Pipe Junctions Within Manholes
(Scale 1:20)

Do not scale directly from this drawing. All discrepancies are to be brought to the attention of the below office.

The copyright to this drawing is owned by studio 11 architecture.

The General Contractor is to check all dimensions on site and report discrepancies to the designer.

The details and information shown hereon relating to existing underground drains, main services, cables, etc., and existing structural details, are as obtained by normal survey observation method. Although all reasonable effort has been made, no guarantee can be made or given for the completeness or accuracy of this information.

Notes:

1. All drawings to be read in conjunction with Structural Engineers Drawings.
2. All plans are drawn in meters unless noted otherwise.
3. Drainage design in accordance with Sewers for Adoption 6th edition.
4. Road design in accordance with 'Lincolnshire County Council - Development Road and Sustainable Drainage Specification and Construction', and any specific requirements of the approving highway officer.
5. Estate road materials to be in accordance with Lincolnshire County Council specifications.
6. All manholes located in the adoptable highways to have a minimum cover grade of 0.40m, be 150mm thick and be marked FW and SW to denote foul water and surface water, respectively.
7. It is proposed that all laterals from plots are to be adopted.
8. Final connection point levels and locations need to be confirmed prior to commencement of construction.
9. All proprietary materials to be installed in strict accordance with the manufacturers instructions and recommendations.
10. All works to be carried out in accordance with the current British Standards, Codes for practice and Building Regulations.
11. Manholes and coordinates are given to the centre of manholes. Groundworker to ensure offsets allow minimum bending requirements and offsets from kerb and footpath.
12. Generally the first inspection chamber located in the private areas is a demarcation chamber for the AW adoptable lateral. Cover grades to be:
 - D400 - adoptable areas and the main access way,
 - C250 - standard parking areas
 - B125 - private domestic car parking (single dwelling)
 - A15 - soft landscaped and non-vehicle areas
13. All drawings need to be read in conjunction with each other, any discrepancies must be reported back to the engineer immediately.
14. Any sewer pipes with less than 1.2m of cover to the top of pipe in the street are to be adopted. Any sewer pipes with more than 1.2m of cover are to receive a concrete cover slab. Where there is very little cover, the pipe is to be ductile iron - refer to longsections for material type.
15. Outside of manhole construction and outside of pipelines to be at least 0.5m and 1.0m respectively, from the kerbside. Sewers might need to be above the manholes to achieve a 1.0m cover.
16. All details are to be to the standards of the 'Water's standard adoptable drainage details - available from Anglian Water upon request.

C	09.03.2020	S11	Client details updated.
B	12.12.2019	S11	Drawing generally updated.
A	18.03.2019	S11	First Issue
REVISION	DATE	DRAWN	DESCRIPTION



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CLIENT	Belmont Contractors		
PROJECT	Residential Development @ Land off Old Main Road, Fleet Hargate		
DRAWING	Section 104 - Anglian Water Drainage Details Sheet 1 of 3		
DRAWN S11	PROJECT DESIGNER LAR	PROJECT DIRECTOR KB	
DATE 18.03.2019	SCALE As Shown	PAPER SIZE A1	

DRAWING NUMBER 356.FH.202

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