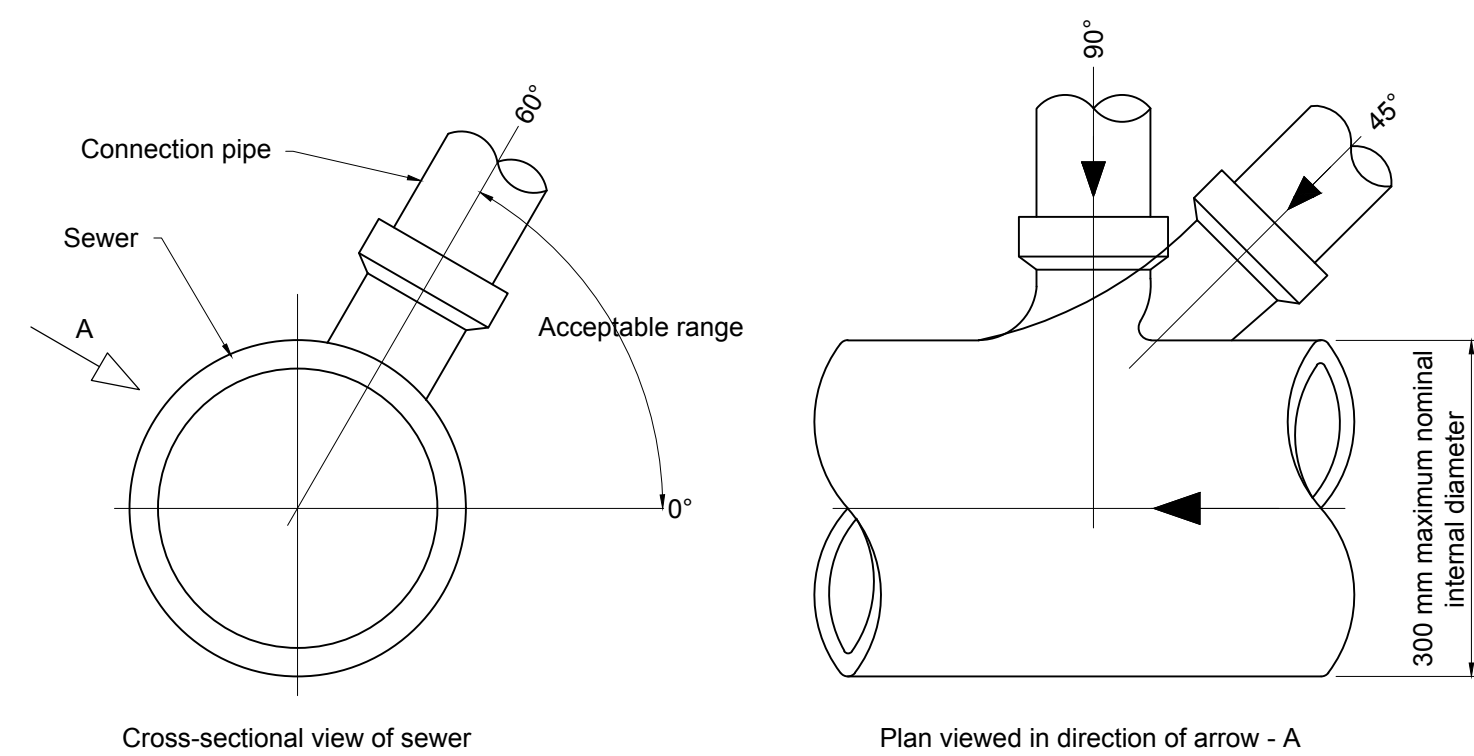
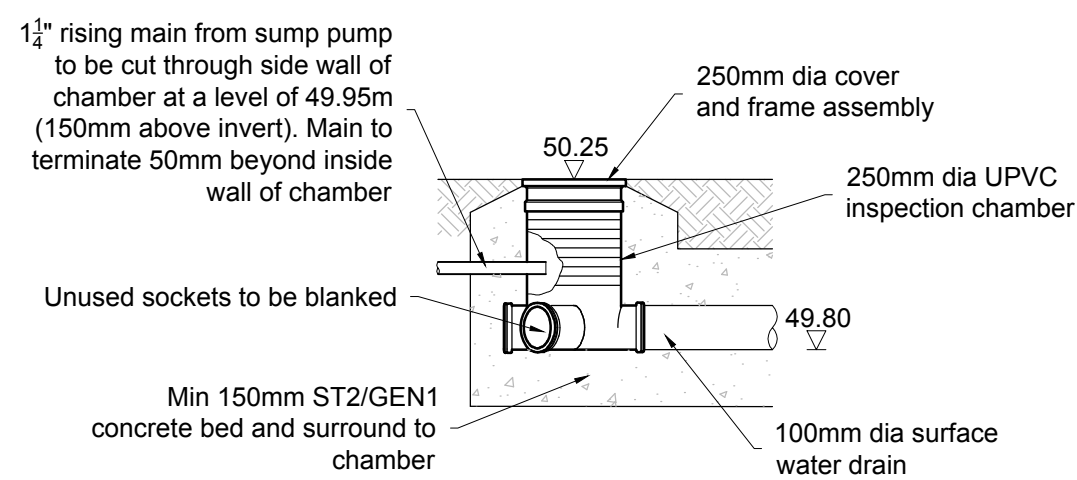
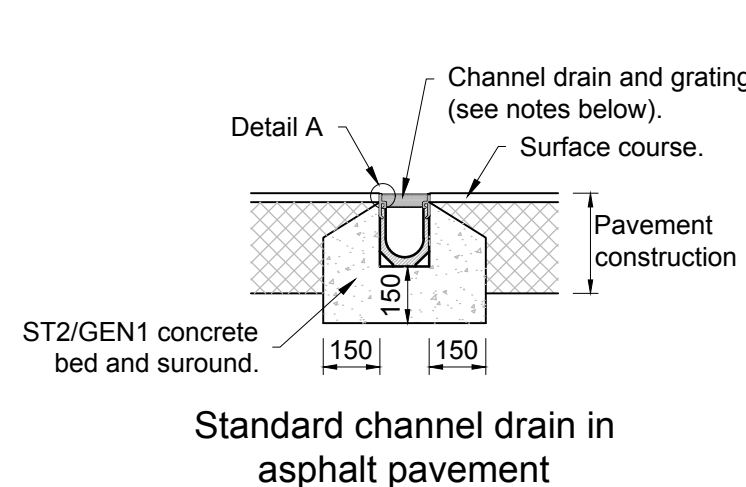




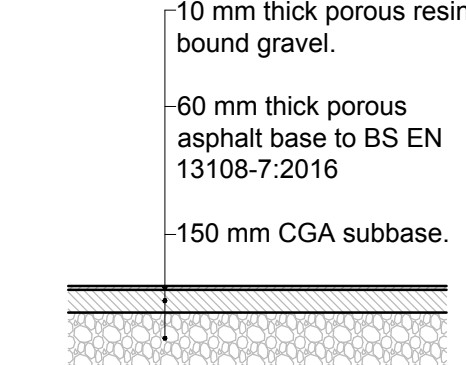
Connection to sewers
Scale 1:20



Sump pump outlet chamber
Scale 1:20

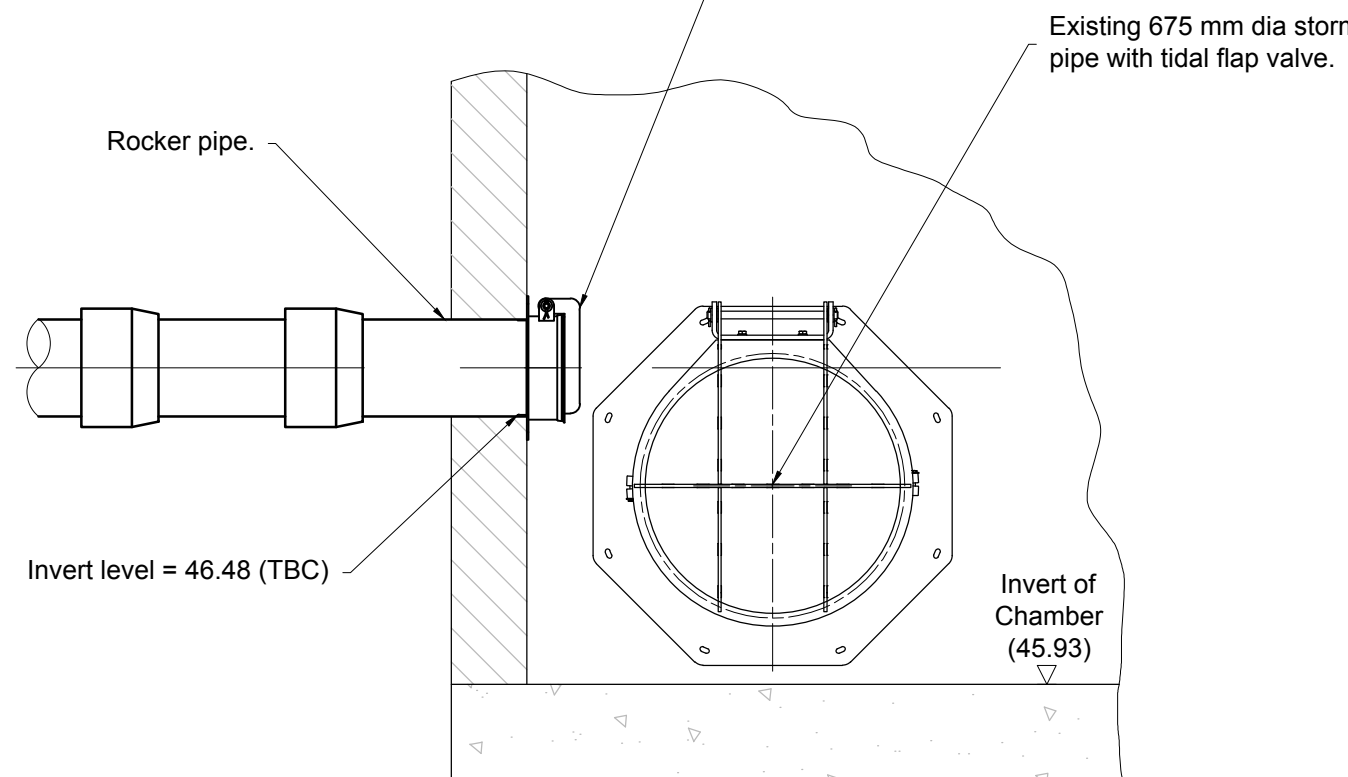


Proposed 250 mm dia flap valve over new incoming 225 mm dia drain. Invert of pipe entry and flap valve location provisionally set 100 mm above standard soffit to soffit level connection to allow for safe operation of both new and existing flap valves without snagging each other. Final level of incoming pipe and flap valve operation to be checked on site prior to making final connection.



Porous driveway construction
Scale 1:20

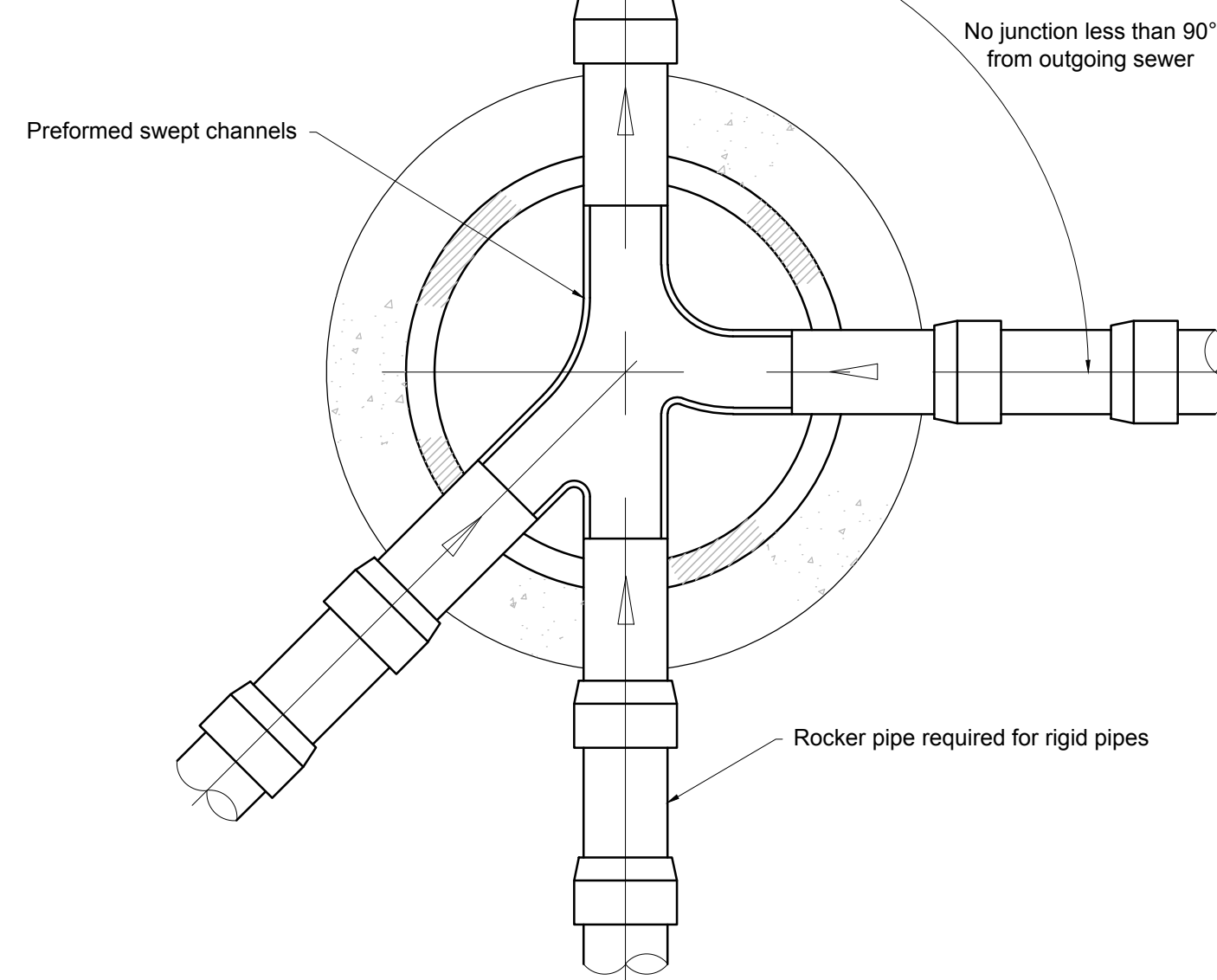
Note: Permeable paving to have a flat formation level. Sub-base thickness to be increased where necessary.



Section 106 connection into existing storm manhole (adopted)
Scale 1:20

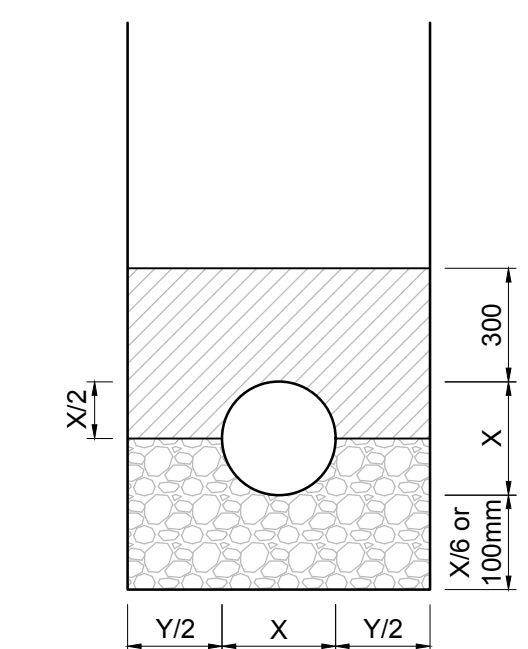
Table D1: Chamber diameters	
Nominal internal diameter of largest pipe in manhole (mm)	Minimum nominal internal dimension of manhole (mm)
Less than 375	1200
375 - 450	1300
500 - 700	1500
750 - 900	1800
Greater than 900	Pipe diameter + 900

Table D2: Rocker pipe lengths	
Nominal diameter (mm)	Maximum effective length (mm)
150 - 600	0.60
601 - 750	1.00
Over 750	1.25

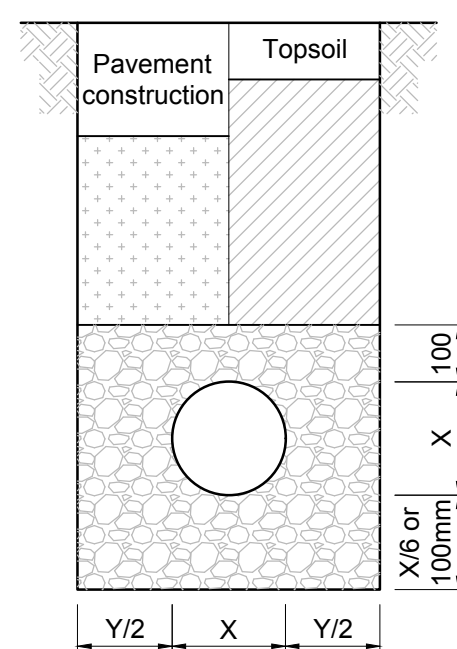


Rigid pipes built into manhole should have flexible joint as close as feasible to the external face of the structure and the length of the next rocker pipe should be as shown.

Typical arrangement of pipe junctions within manholes
Scale 1:20

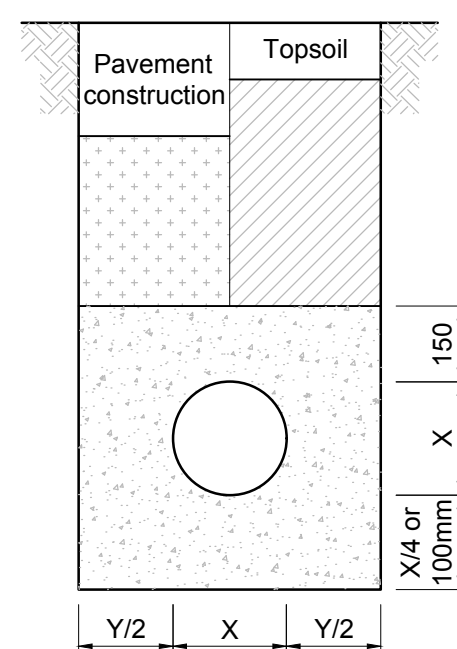


Type B pipe bedding
(to be used where directed by the Engineer)



Type S pipe bedding

(Generally to be used to all pipes with cover from finished surface to crown greater than 900 mm in trafficked areas or greater than 600 mm cover in landscaped areas or under buildings.

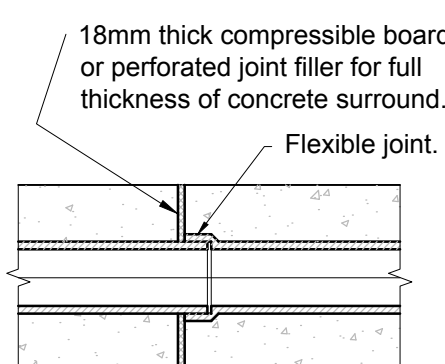


Type Z pipe bedding

(Generally to be used to all pipes with cover from finished surface to crown less than or equal to 900 mm in trafficked areas or less than 600 mm cover in landscaped areas or under buildings.

Key

- Selected as-dug material (maximum aggregate size 40mm).
- Type 1 granular material to SHW Clause 803.
- Granular material. Single size aggregate to BS EN 13242 and SHW Clause 803.3(i) including Table 5/3
- ST2/GEN1 Concrete (18mm compressible boards to be inserted at all pipe joints).
- 0/20 mm filter material Type A to SHW Clause 505 and Table 5/5.
- 20/40 mm filter material Type B to SHW Clause 505 and Table 5/5.

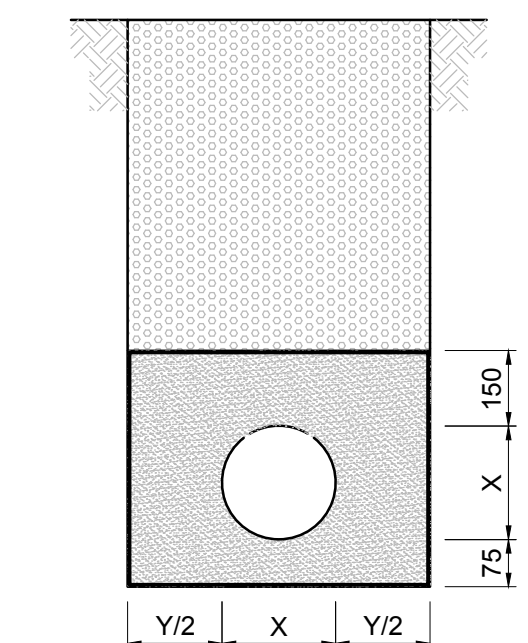


Movement joint for pipes with concrete bed and surround

NOTES:

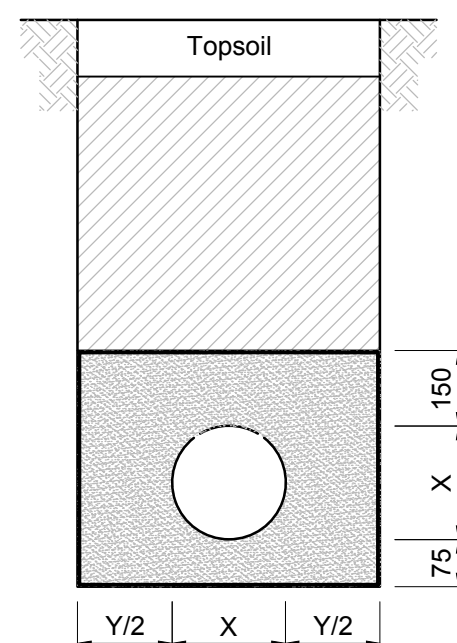
- X = Outside diameter (OD) of pipe.
- The first 300mm of fill above the crown of the pipe shall not be mechanically compacted.
- Geotextiles may be used, where directed by the Engineer, to contain bedding material in certain soils, such as running sand.
- In very wet conditions, or where directed by the Engineer, a temporary land drain may be laid within the granular bed.

Table P1: Trench widths and granular fill		
Pipe (DN) size	Y (mm)	Granular fill
100	400	10mm nominal size single stone
150	400	10, 14mm nominal size single stone
225 - 300	500	
375 - 450	700	
525 - 675	700	10, 14, 20mm nominal size single stone
750 - 1200	850	
1350 - 1800	1000	



Type 1 filter drain

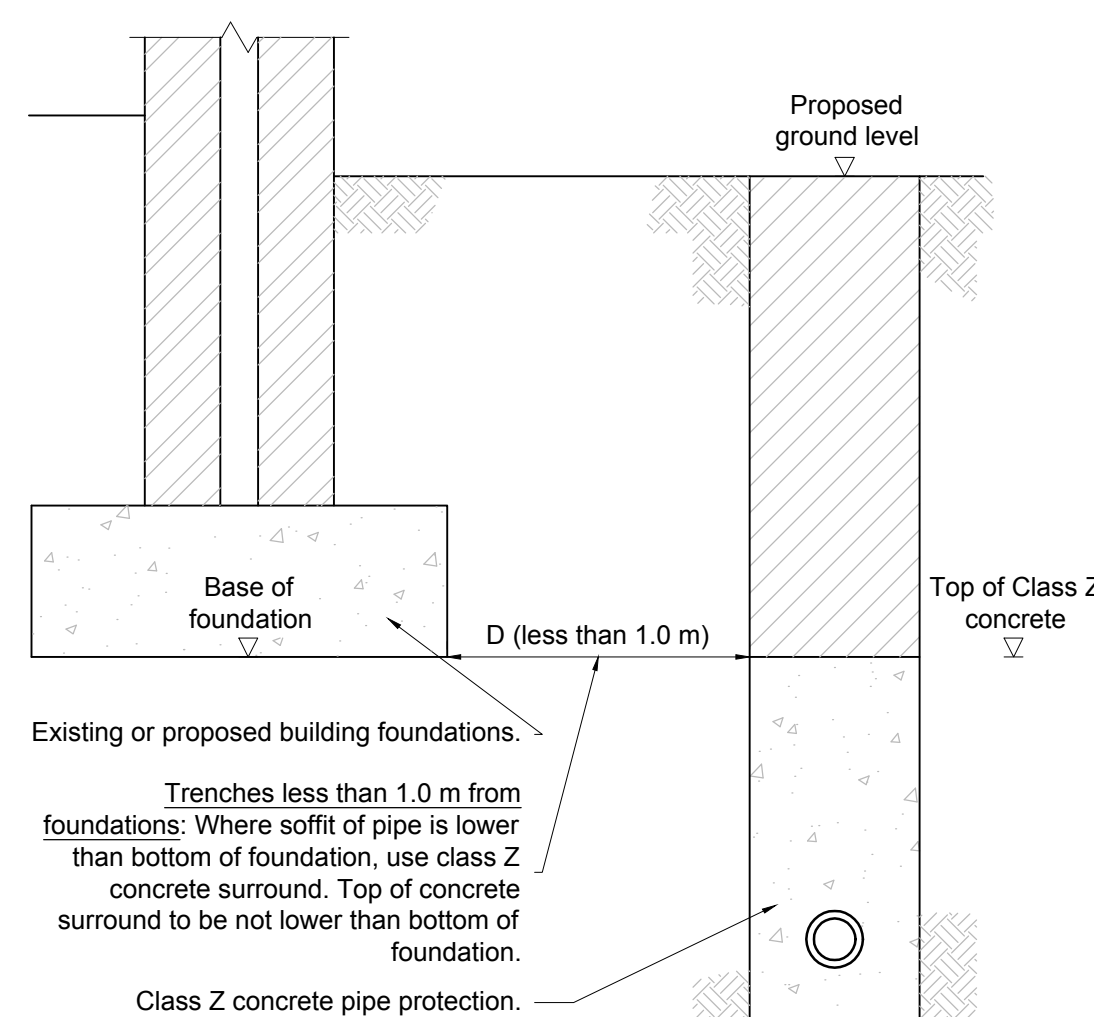
Unless otherwise stated, pipe shall be 100 mm diameter perforated pipe. Type A filter material to be wrapped in Terram T1000 geotextile or equivalent approved.



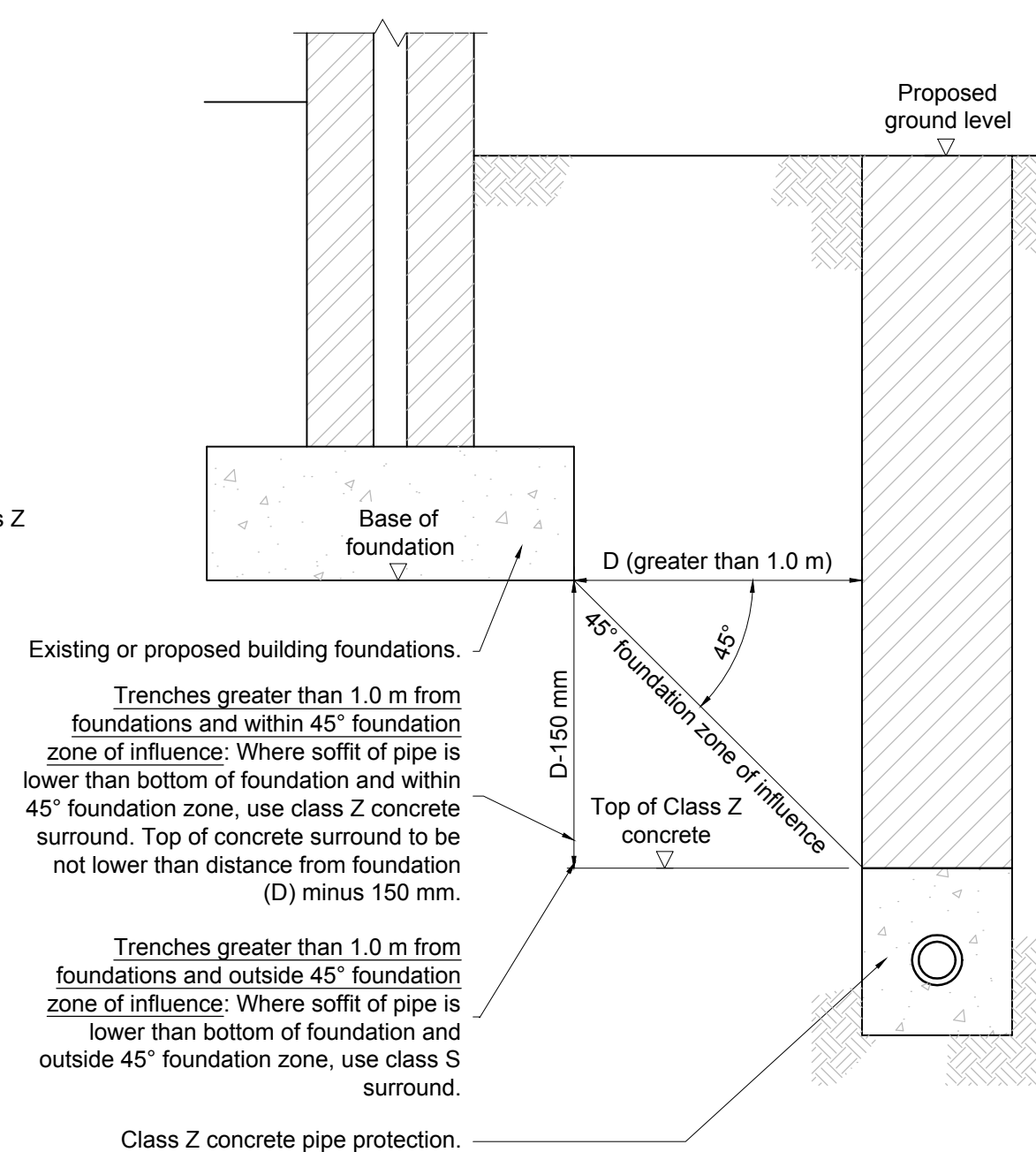
Type 2 filter drain

Unless otherwise stated, pipe shall be 100 mm diameter perforated pipe. Type A filter material to be wrapped in Terram T1000 geotextile or equivalent approved.

Pipe bedding details
Scale 1:20



Pipe protection adjacent to existing/proposed foundations
Scale 1:20



NOTES

- DO NOT SCALE FROM THIS DRAWING ON PRINT OR ELECTRONICALLY. WORK FROM FIGURED DIMENSIONS ONLY.**
- No deviation from the details on this drawing is allowed without CampbellReith's prior permission in writing.
- Read this drawing with all Architect's, Service Engineer's and CampbellReith's relevant details, specifications and drawings.
- All work is to be done in accordance with the relevant specifications issued by CampbellReith, British Standard Codes of Practice, Statutory Requirements and the Contract Documents.
- Drawing Status:
P: PRELIMINARY Evolving drawings for approvals, tenders, billings etc.
C: CONSTRUCTION Fully developed drawings issued under instructions for construction.
ONLY STATUS C DRAWINGS TO BE USED FOR CONSTRUCTION.
- Suitability Code:
Work in Progress
SO - Work in Progress
Shared (Non-Contractual)
S1 - For Coordination, S2 - For Information, S3 - For Internal Review and Comment, S4 - For Construction Approval.
Documentation (For Contractors Purposes)
D1 - For Costing, D2 - For Tender, D3 - For Contractor Design, D4 - For Manufacture/Procurement.
Construction
A - For Construction, B - For Construction but With Comments (i.e. areas in abeyance), C - Comprehensive Revisions Required.

REV	DESCRIPTION	DATE	BY
C3	Updated to suit Arun District Council comments	18/12/17	TH
C2	Issued for Discharge of Planning Condition	01/12/17	CRH
C1	Issued for Construction	15/06/17	MB
P1	Issued for Comment	22/08/16	TH

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CLIENT

Mr and Mrs Marchant

JOB TITLE

Sea Point

**Drainage
Construction Details
Sheet 1**

DRAWN BY	DATE MADE	SCALE @ A1	C1 CHECKED	SUITABILITY	OR PROJECT
CRH	Aug'16	1:20	CRH	A	12198

PROJECT No.	ISSUER	AREA	LEVEL	TYPE	ROLE	NUMBER	REV
12198	CRH	Z1	XX	DR	C	5301	C3