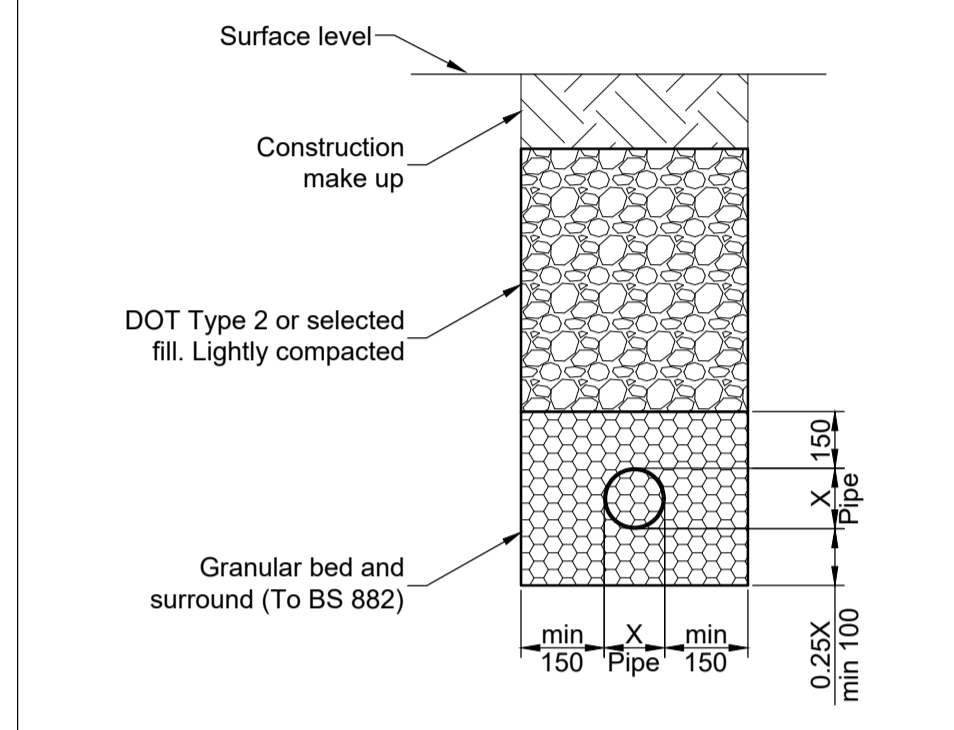


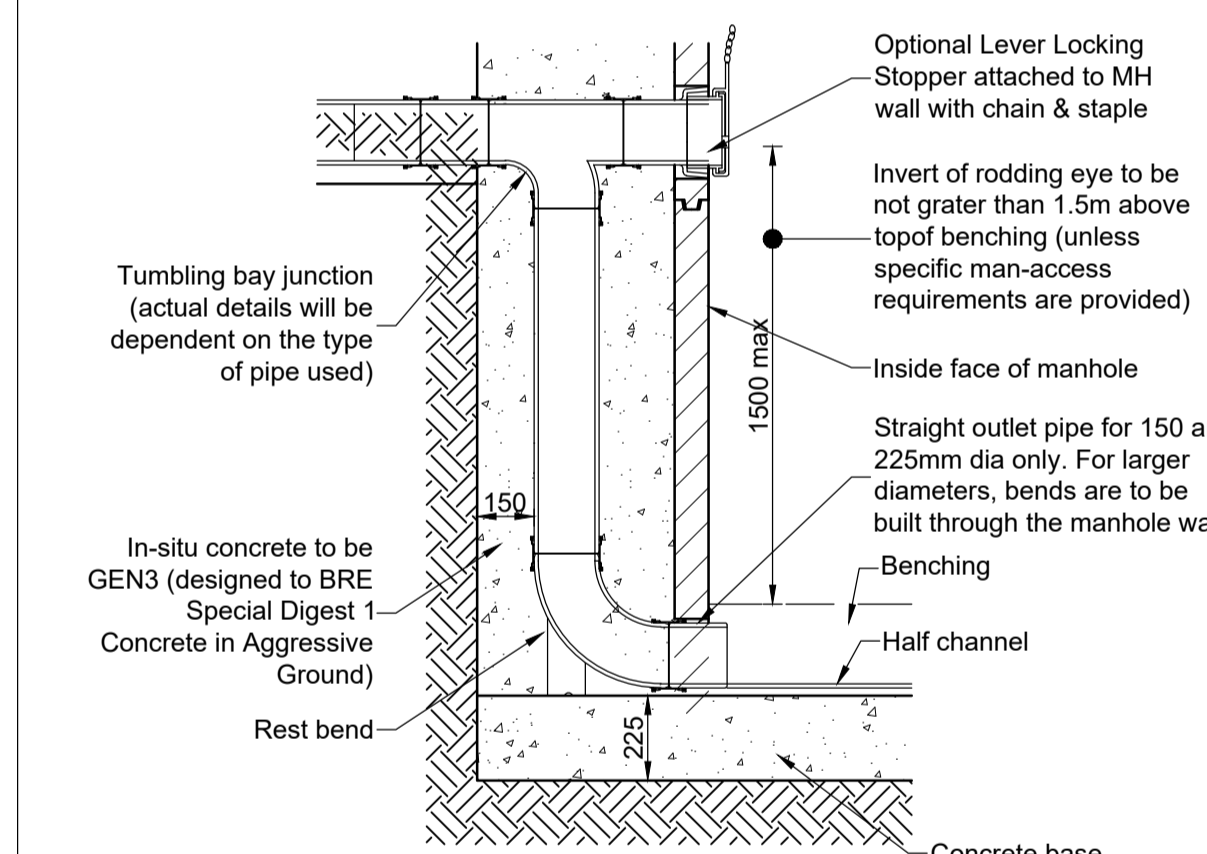
Typical Pipe Bedding With Concrete Bed and Surround
1:20

GEN3 concrete bed and surround to be used under paved areas where the depth between the finished construction level and the Barrel of the drain is less than 750mm.



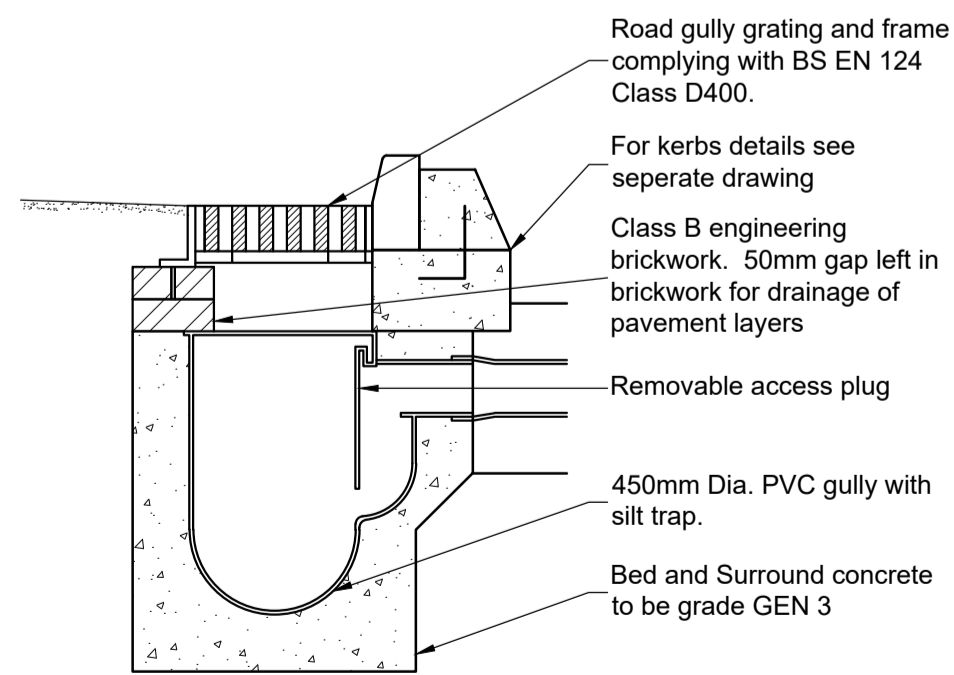
Typical Pipe Bedding With Granular Bed and Surround
1:20

Granular bed and surround to be used where concrete bed and surround are not required.

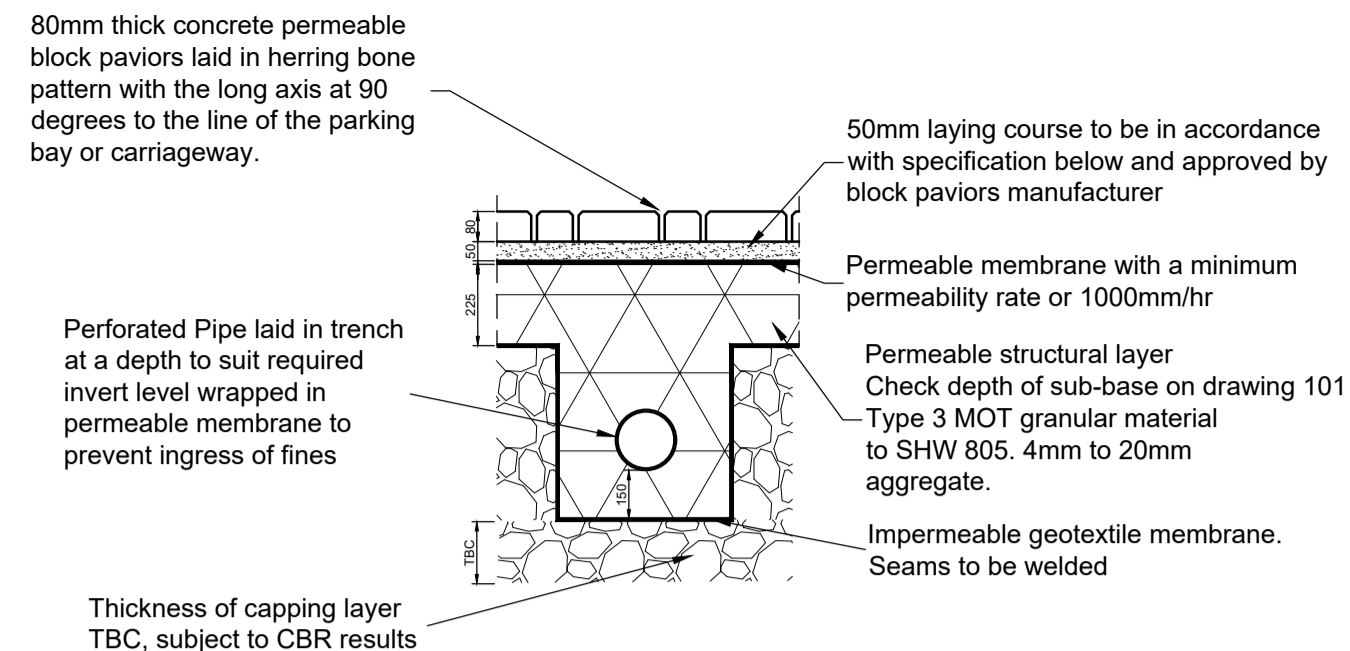


Typical Vertical Backdrop Detail
1:20

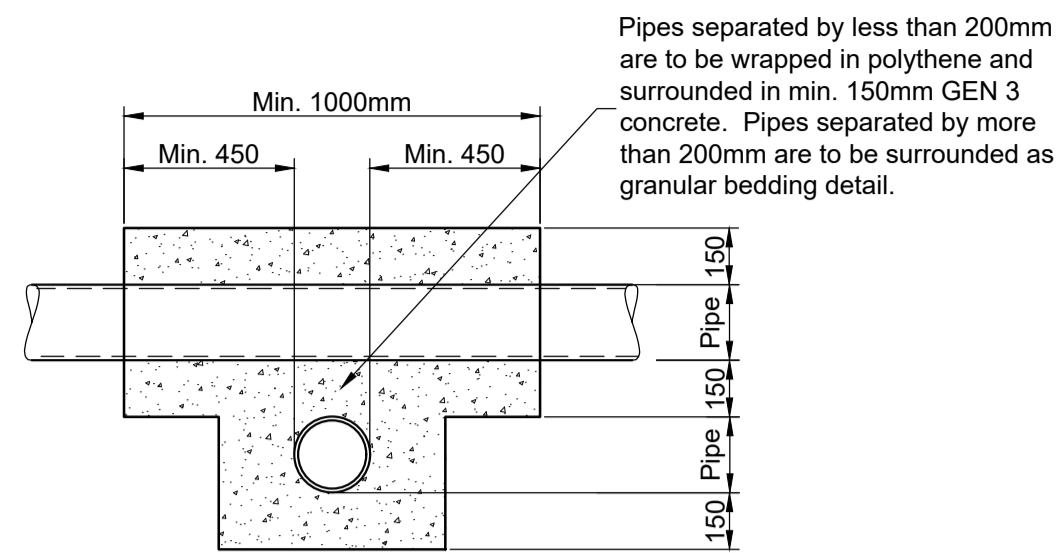
Note: steeper gradients are preferred to the use of backdrops. Type of backdrop (vertical or 45deg ramped) to be used to be agreed with Undertaker.



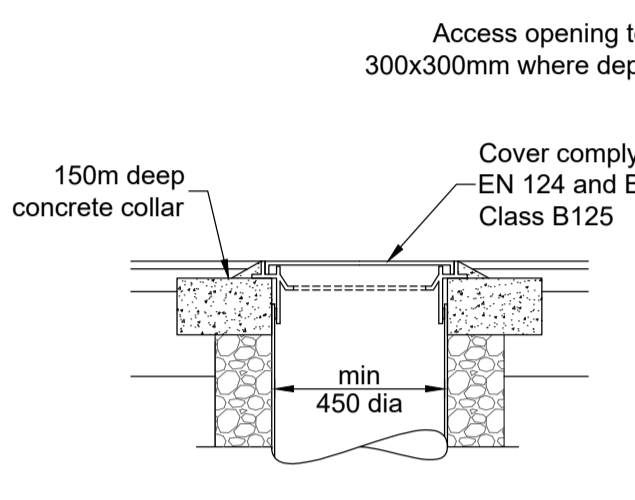
Typical PVC Gully Detail
1:20



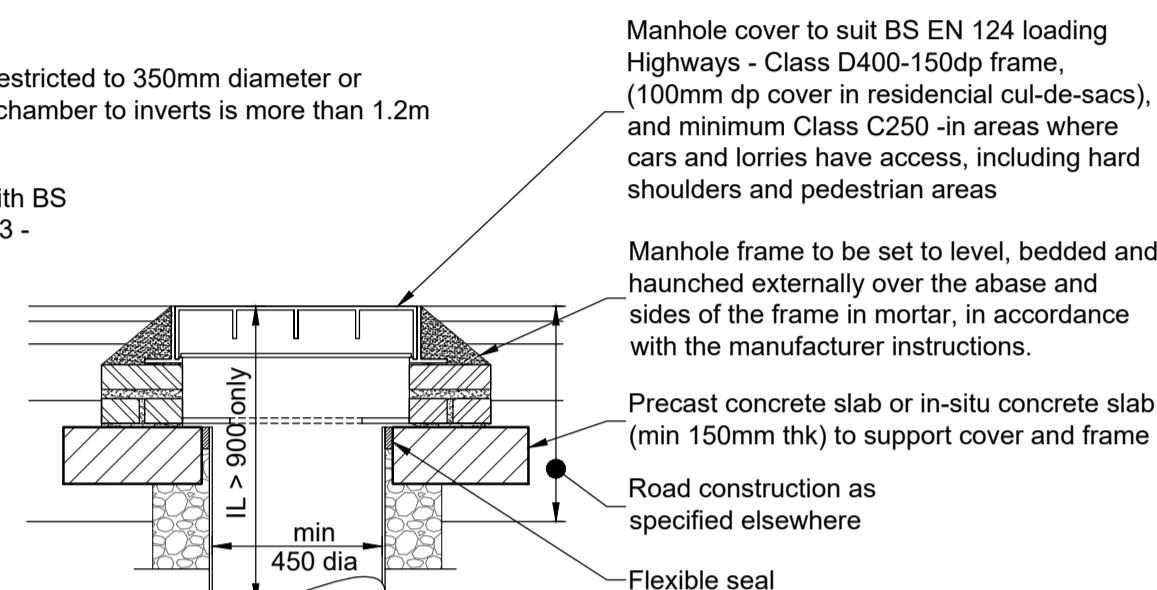
Typical Porous Pipe in Permeable Block Paved Areas Providing Attenuation
1:20



Typical Pipe Crossing Detail
1:20

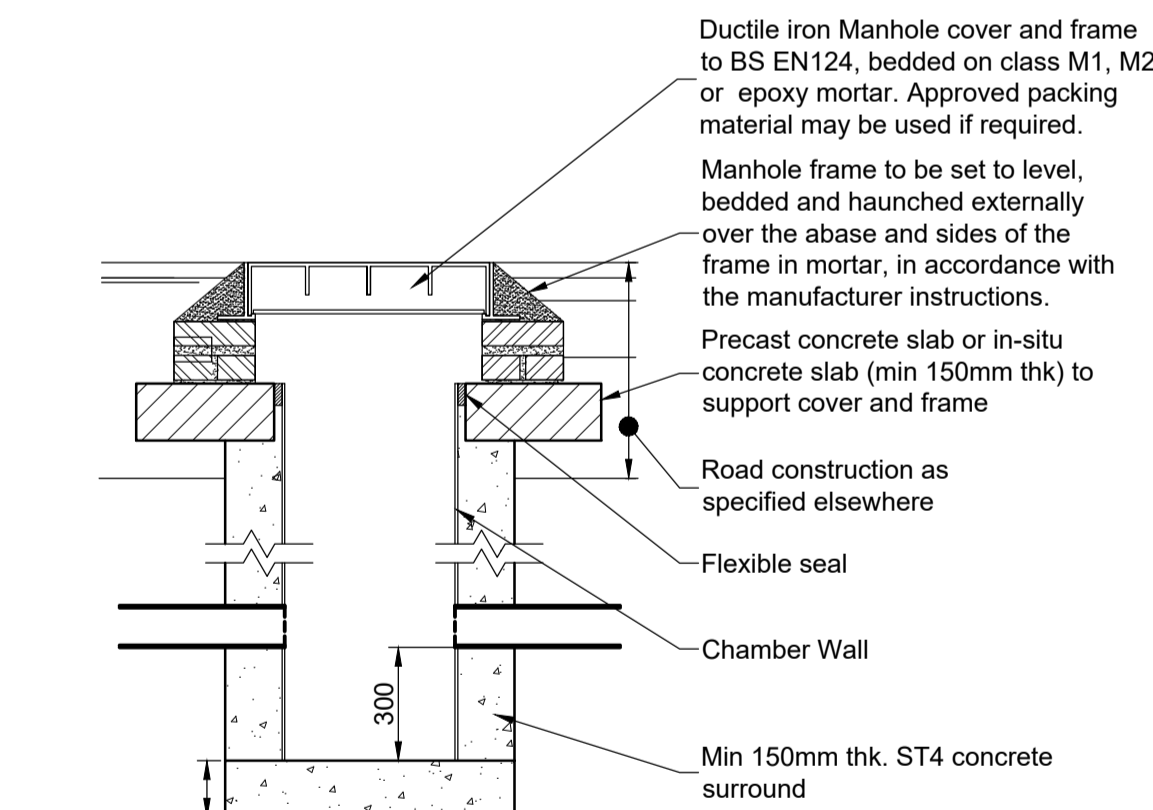


Cover for Driveways, Footpaths and Landscaped Areas
1:20

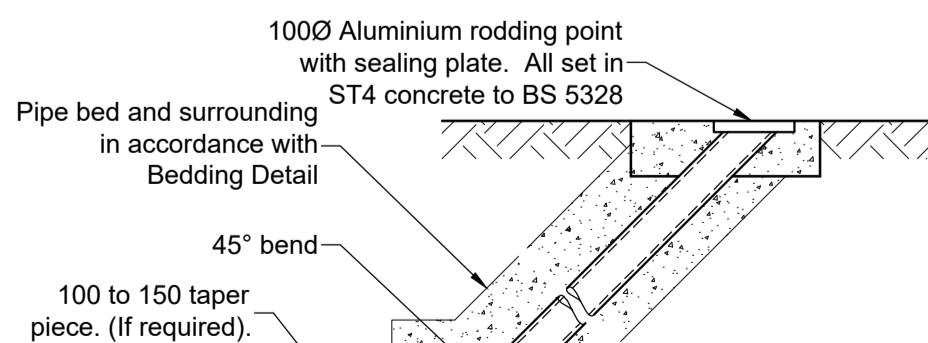


Cover for Roads and Carparks
1:20

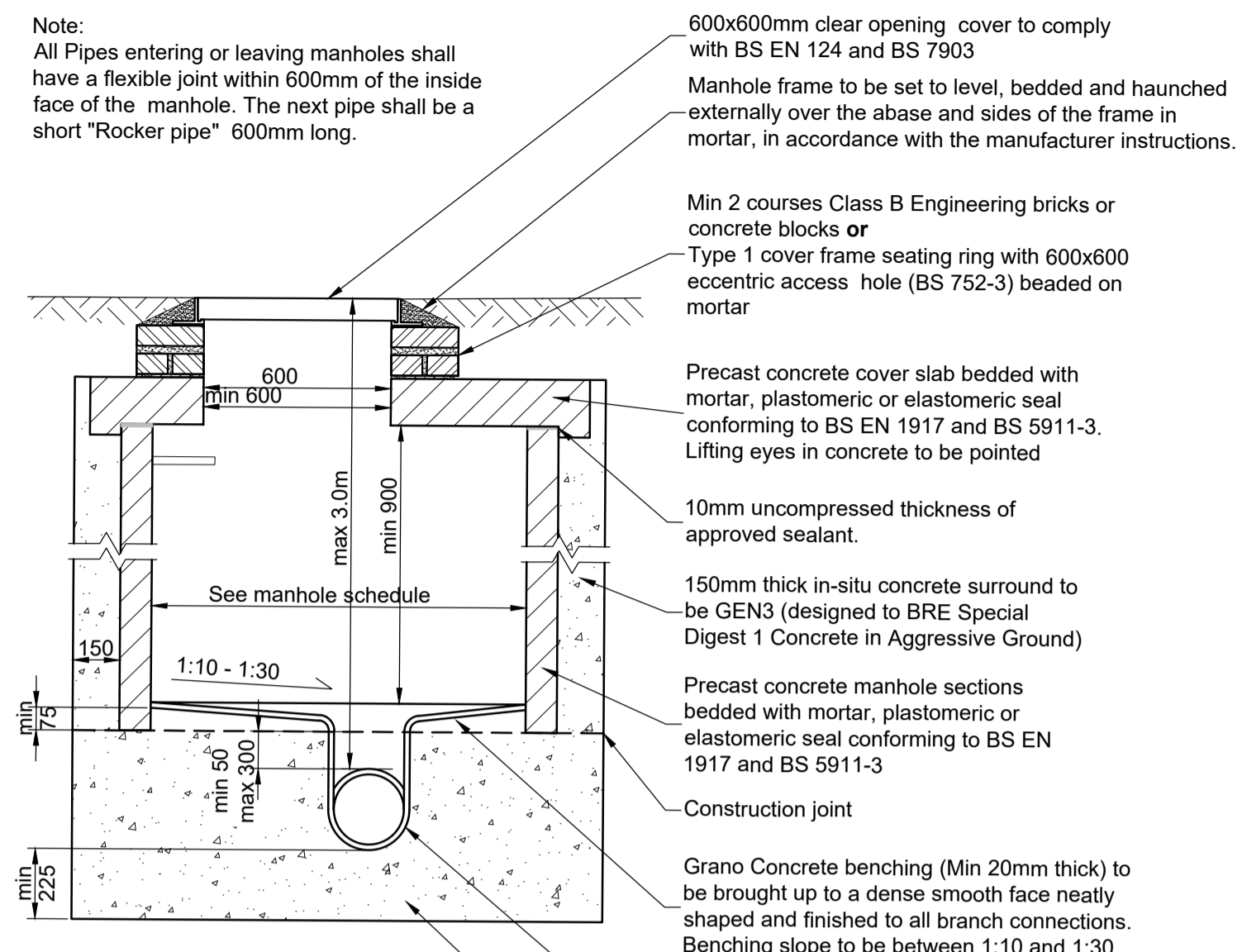
Polypropylene Inspection Chamber (PPIC) Detail
1:20



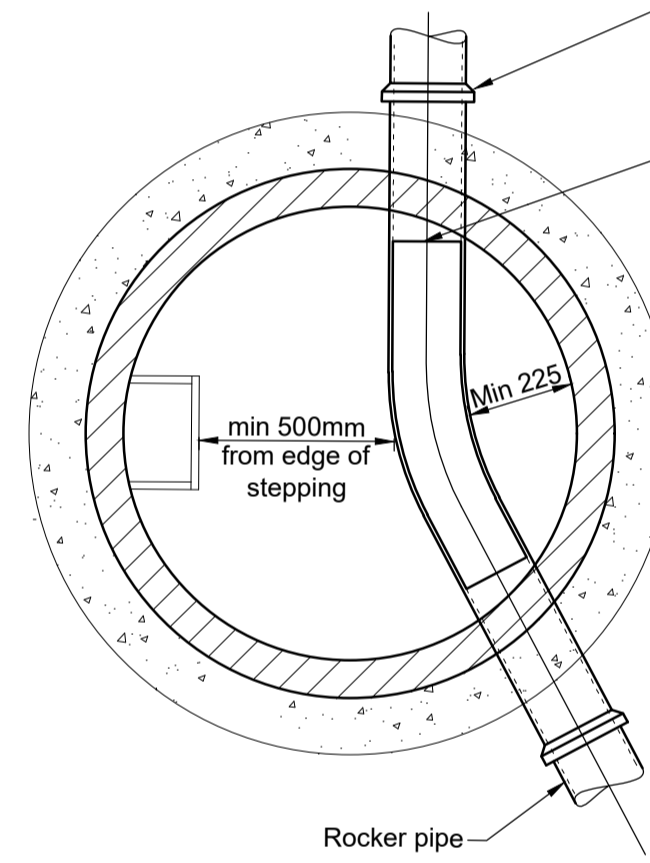
Typical Catchpit Detail
1:20



Rodding Eye Detail
1:20

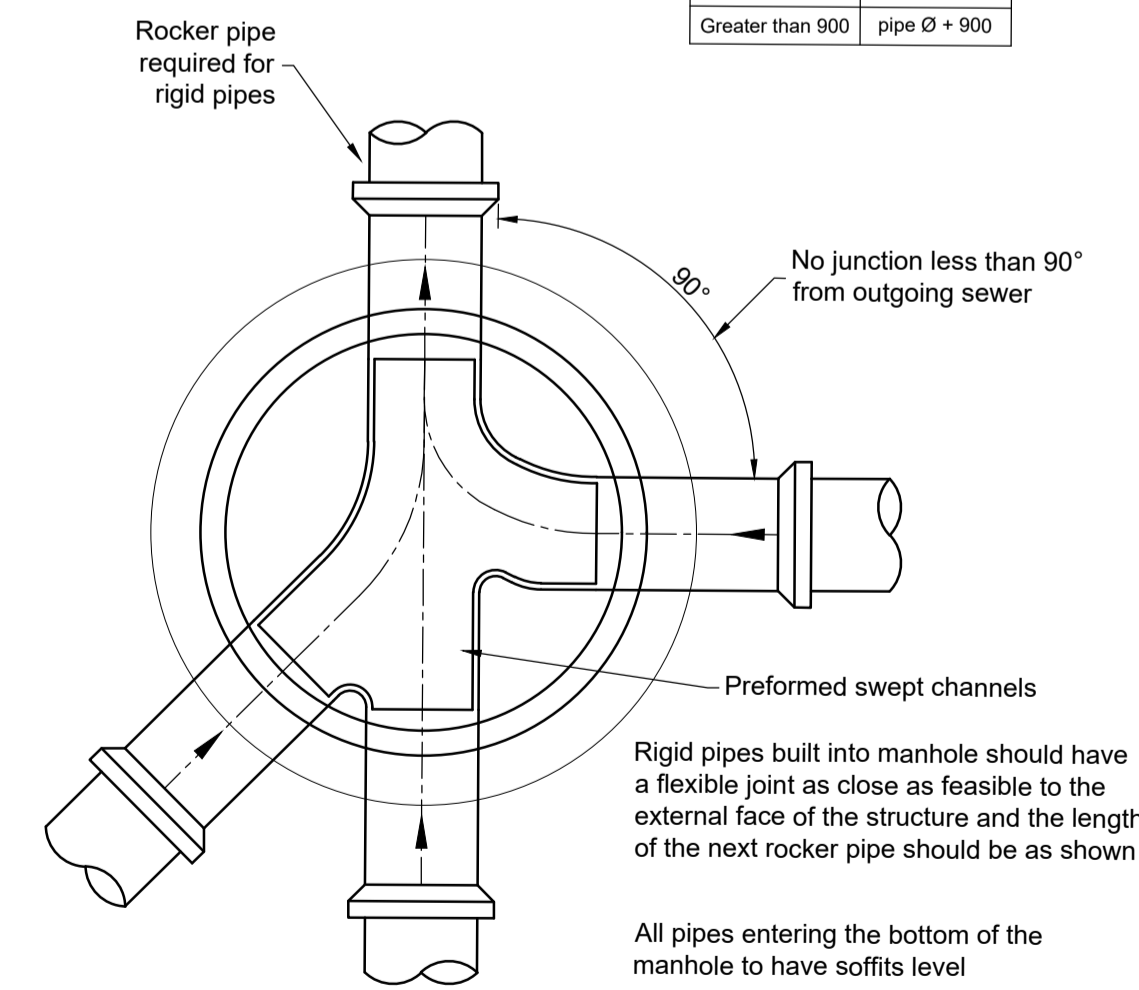


Typical Manhole Detail



Sewer Diameter (mm)	Effective Length (mm)
150 to 600	600
over 600 to 750	1000
over 750	1250

Largest Pipe Ø in manhole (mm)	Internal Ø of manhole (mm)
Less than 375	1200
375 - 450	1350
500 - 700	1500
750 - 900	1800
Greater than 900	pipe Ø + 900



Arrangement of Pipe Junctions Within Manholes
1:20

SAFETY, HEALTH & ENVIRONMENTAL HAZARD INFORMATION BOX.
The hazards noted below are in addition to the normal hazards and risks faced by a competent contractor when dealing with the types of works detailed on this drawing.

CONSTRUCTION RISKS:
DEMOLITION RISKS:
MAINTENANCE / CLEANING RISKS:

- Notes:**
- DO NOT SCALE FROM THIS DRAWING.
 - All dimensions are in millimetres Unless Noted Otherwise (u.n.o.)
 - Drawing is to be read in conjunction with all relevant architect's drawings. Any inconsistencies should be reported to PRP immediately.
 - All levels and dimensions are to be checked on site before any work commences.
 - For more information see PRP drawings: 63364 - 100series - Drainage and External Works 63364 - 200series - Foundations 63364 - 300series - Superstructure
 - The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard hats, safety boots, reflective clothing, and the use of any other required safety equipment.

- Drainage:**
- The position, line, level and diameter of all existing drainage apparatus should be confirmed on site prior to the commencement of the works. Any discrepancies should be reported to PRP immediately.
 - The connection of foul and surface water drainage to the existing public sewer system shall be subject to the approval of the water authority
 - For positions of all rainwater pipes & foul outlets refer to Architect's drawings.
 - Drainage designed in accordance with the Sewerage Sector Guidance, Design and Construction Guidance ("the Code") Approved Version 2.0, 10 March 2020.
 - All joints between precast manhole components shall have a minimum uncompressed thickness of 10mm of proprietary bitumen or resin mastic sealant.
 - Storm & foul branch connections are to be laid at gradients of between 1:10 & 1:80
 - All in-situ concrete shall be minimum grade GEN3.
 - Precast concrete cover & reducing slabs to be heavy duty reinforced concrete to BS 5911.
 - Manhole covers & frames shall be manufactured in cast iron or ductile iron & shall comply with requirements of BS EN 124 & shall be kite marked or equivalent.
 - Where there is no intermediate manhole between the start of a surface water pipe run and the soakaway the gradient of the run shall be not less than 1 : 60.
 - All completed work shall be suitably protected from damage by construction work. Damaged drainage will not be accepted. It is recommended that no heavy loading or underground work is permitted above or near unprotected drainage, and that dumpers, trucks, fork lifts or other heavy vehicles are not driven along or near pipe runs.
 - Inspection chambers, soakaways and flow control units are to be installed strictly in accordance with manufacturer guidance and instructions

Rev	Date	Description	By / Chk
C2	08/09/2022	Issued for Construction	DB / HP
C1	23/11/2021	Issued for contract	MAS/ HP
T1	23/11/2021	Issued for tender	JD / HP
P1	13/08/2021	Issued for comments	JD / HP



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Client: Paloma | Propco Ltd

Architect: Darling Associates

Project: Ruscote Avenue, Banbury

Title: Drainage Construction Details

Status: **CONSTRUCTION**

Engineer:	SK	Date:	Aug 2021
Drawn:	JD	Scales @ A1:	1:20
Checked:	HP		
Project No:	63364	Drg No:	102
		Rev:	C2