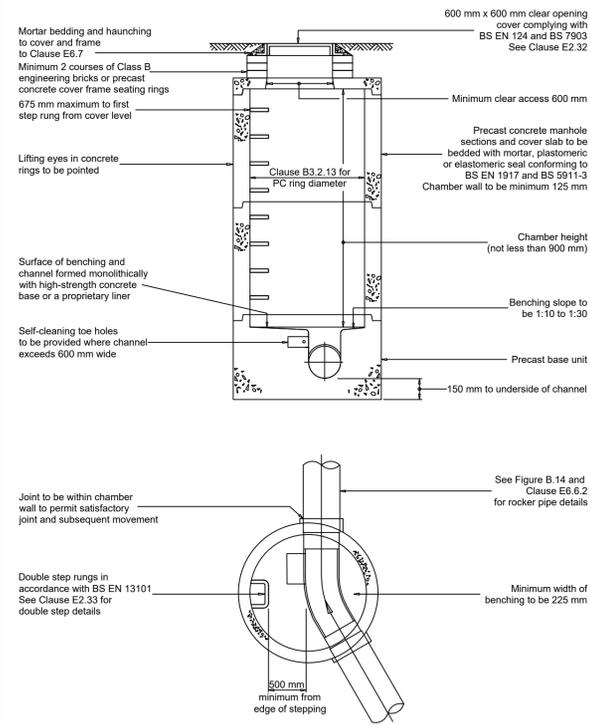
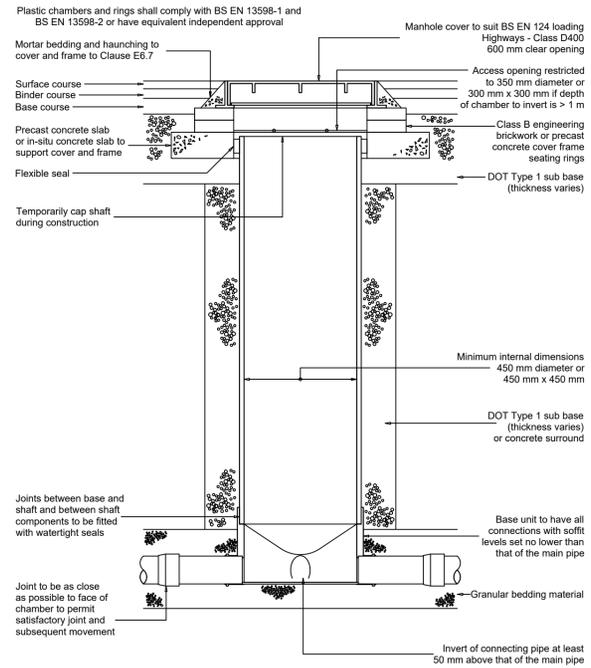


FIGURE B.13
TYPICAL MANHOLE DETAIL - TYPE 2 (Alternative construction detail)
Maximum depth from cover level to soffit of pipe 3.0 m



Not to scale

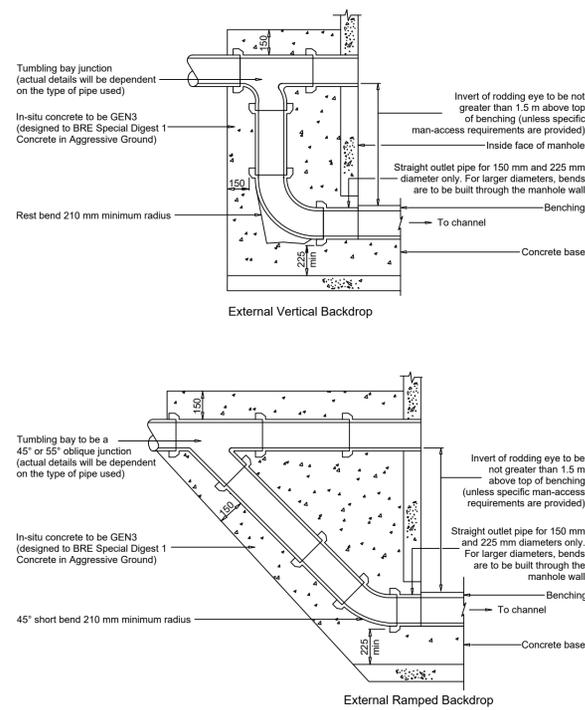
FIGURE B.16
TYPICAL INSPECTION CHAMBER DETAIL - TYPE 3 (Flexible material detail)
Maximum depth from cover level to soffit of pipe in areas subject to vehicle loading 3 m, non-entry



Note: Where the access chamber is in the highway the Highway Authority can have specific requirements

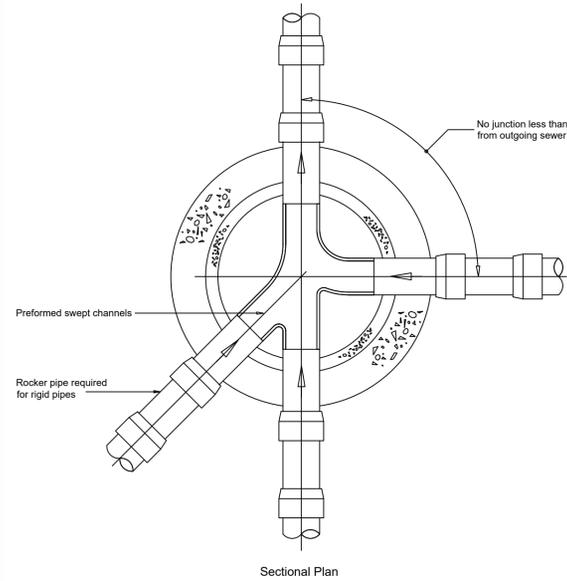
Not to scale

FIGURE B.15
TYPICAL VERTICAL AND RAMPED BACKDROP DETAIL
Note: Steeper gradients are preferred to the use of backdrops.
Type of backdrop to be used to be agreed with Undertaker.



Not to scale, dimensions in millimetres

FIGURE B.14
TYPICAL ARRANGEMENT OF PIPE JUNCTIONS WITHIN MANHOLES

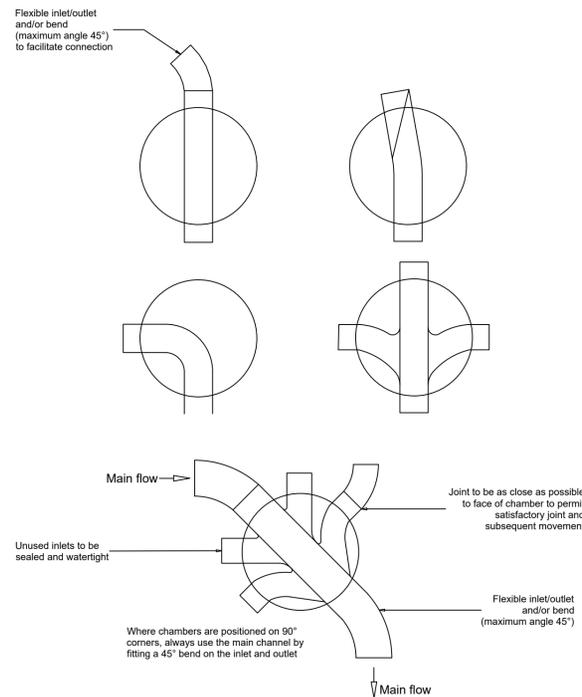


Rigid pipes built into manhole should have a flexible joint as close as feasible to the external face of the structure and the length of the next rocker pipe should be as shown.

Nominal diameter (mm)	Maximum effective length (m)
150 - 600	0.6
601 - 750	1.00
over 750	1.25

All pipes entering the bottom of the manhole to have soffits level.

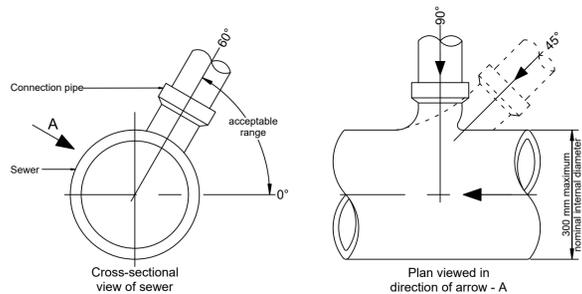
FIGURE B.20
ALTERNATIVE BASE LAYOUTS FOR TYPE 3 CHAMBERS



Note: Where a bend is used immediately outside the manhole, this may be used as the rocker pipe

Not to scale

FIGURE B.24
CONNECTIONS TO SEWER



General Notes

P2	17.05.2024	ISSUED FOR STAGE 4 APPROVAL	OJ	MH
P1	23.06.2023	ISSUED FOR APPROVAL	M.H	C.J.H
Rev	Date	Comment	By	Check

Status Code	Drawing Status
S4	STAGE APPROVAL
This drawing may only be used for construction/manufacture if status is CONSTRUCTION	

Furness Partnership
Consulting Structural/Civil Engineers

London 20 Britton Street, London, EC1M 5TX
tel: 020 7490 4353 fax: 020 7490 4354
e-mail: info@furnesspartnership.com

Bradford The Paper Hall, Anne Gate, Bradford, BD1 4EQ
tel: 01274 392092
e-mail: mail@furnesspartnership.com

Project

**CLEATOR MOOR
ACTIVITY CENTRE**

Drawing Title

**PROPOSED SURFACE WATER
DRAINAGE DETAILS
SHEET 1 OF 2**

FP Job No.	Drawn	Date	Checked	Scale @ A1
L2763	M.H	JUN '23	C.J.H	N/A

PROJECT	OPERATOR	ZONE / VOLUME	LEVEL / LOCATION	FILE TYPE	ROLE	SHEET No.	Rev.
L2763	FUR	XX	XX	DR	D	0931	P2