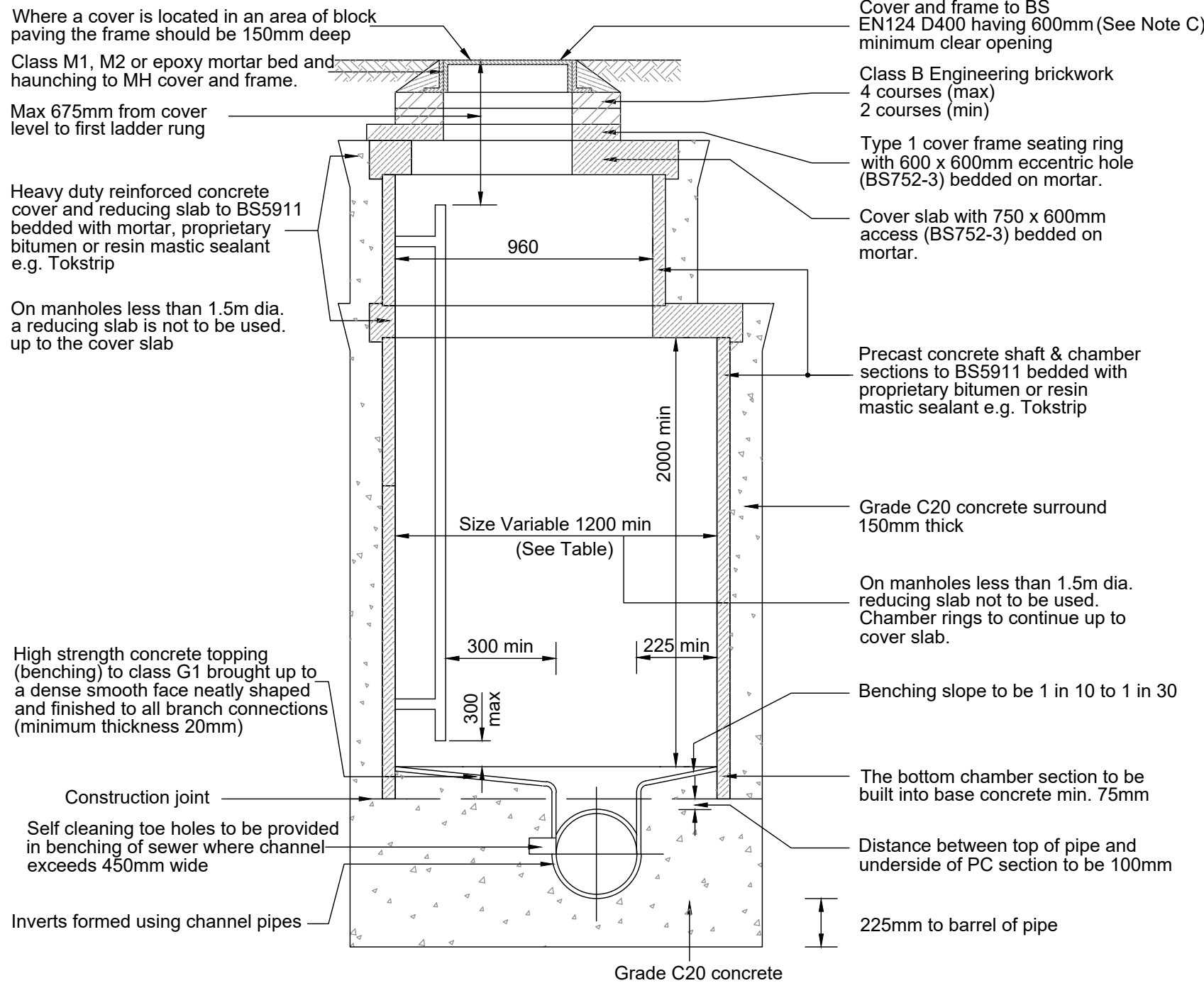
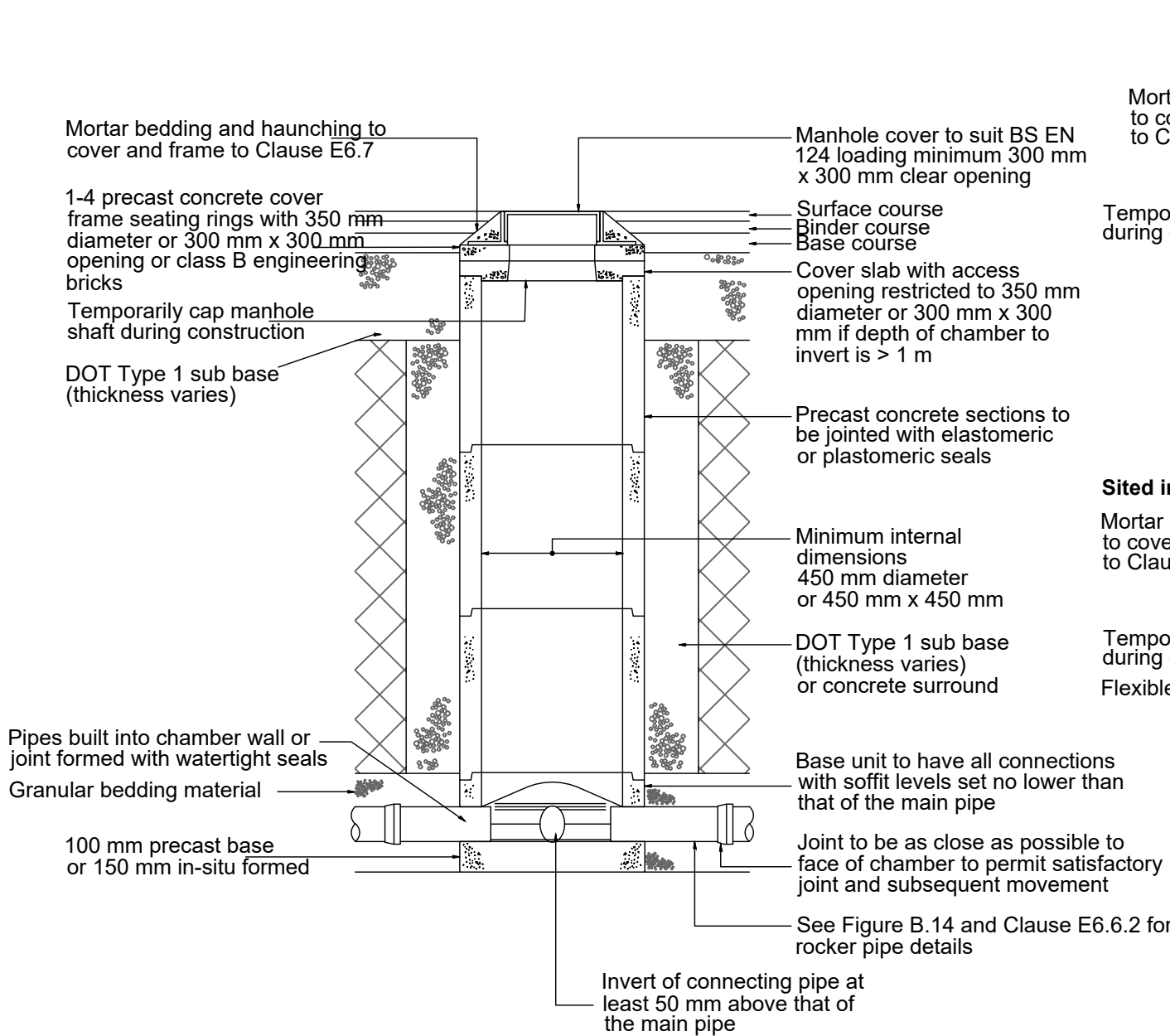


DO NOT SCALE

NOTE:-
FOR ALL GENERAL NOTES REFER
TO DRAWING No. HCE-1314-106.

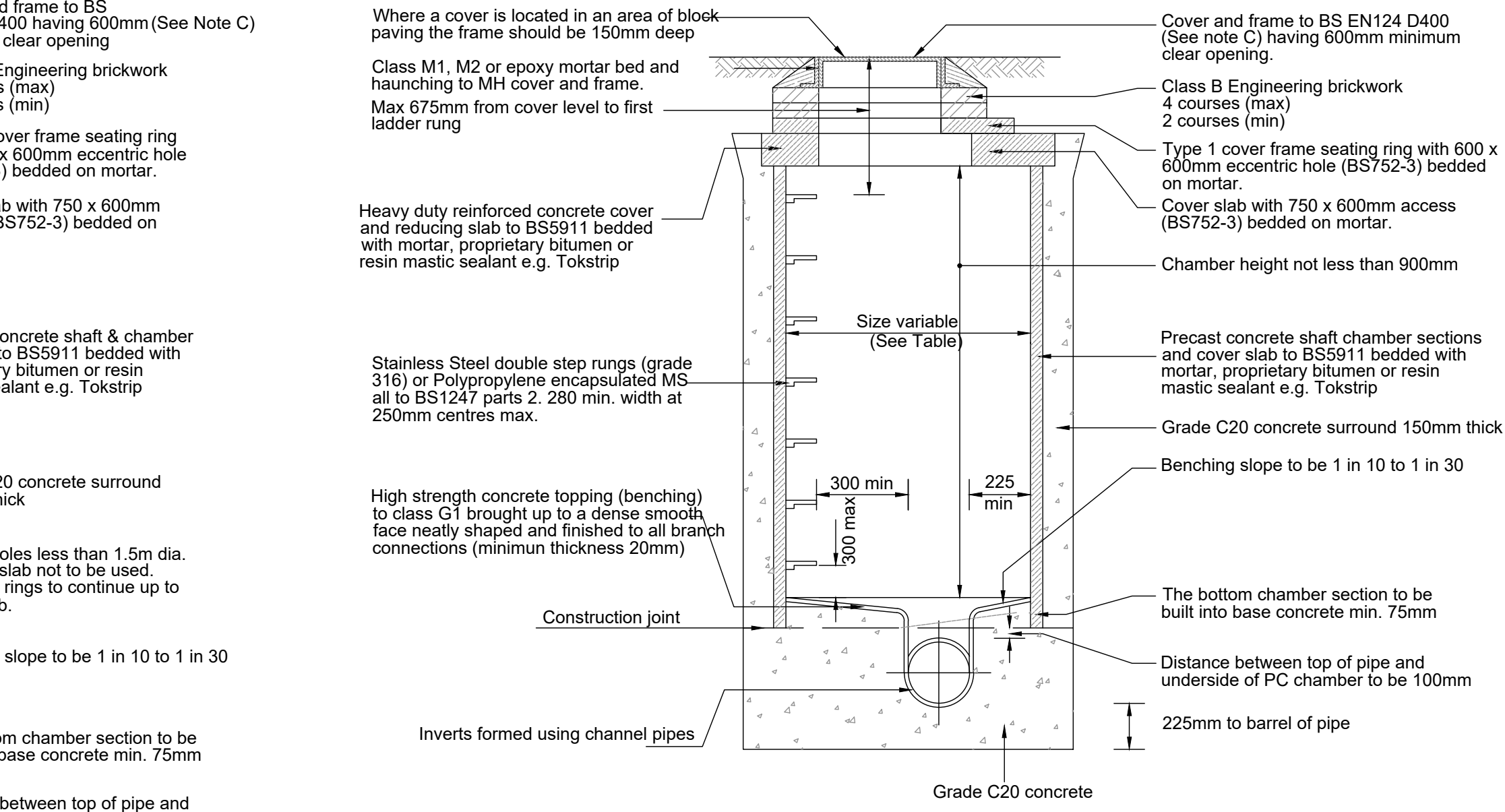


TYPICAL MANHOLE DETAIL - TYPE 1
DEPTH TO SOFFIT 3m to 6m

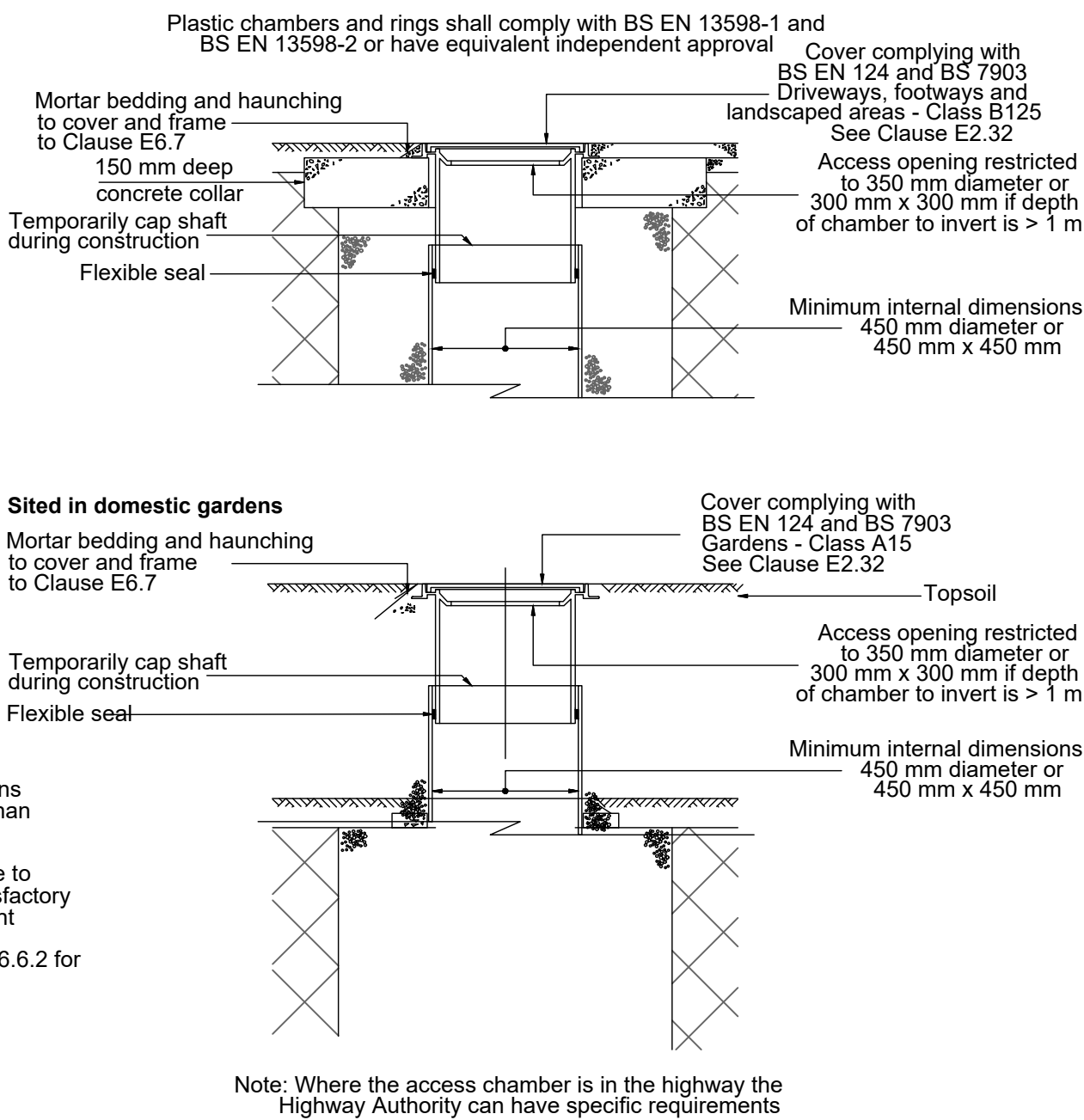


TYPICAL INSPECTION CHAMBER DETAIL - TYPE 3.
(Rigid Material Detail)

MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF
PIPE IN AREAS SUBJECT TO VEHICLE LOADING 3 m,
NON-ENTRY

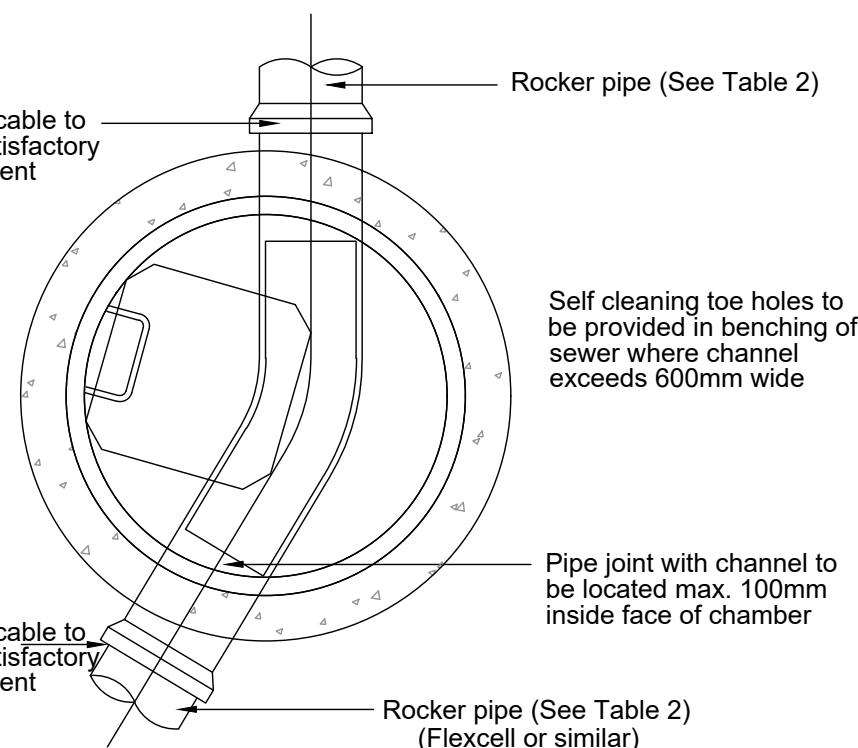


TYPICAL MANHOLE DETAIL - TYPE 2
MAX. DEPTH TO SOFFIT 3m



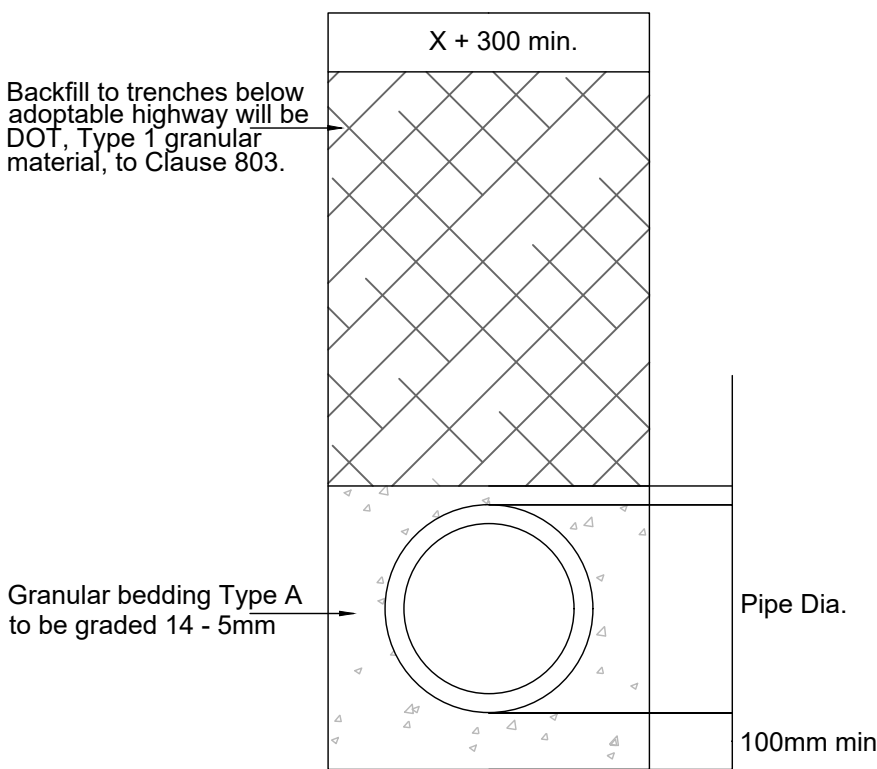
ALTERNATIVE TOP DETAILS FOR LIGHT VEHICLE
LOADING AND LANDSCAPED AREAS - TYPE 3

MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF
PIPE IN AREAS SUBJECT TO VEHICLE LOADING 3 m,
NON-ENTRY



FLEXIBLE JOINT IN CONCRETE BED
AND SURROUND.

Sited in domestic driveways or footways



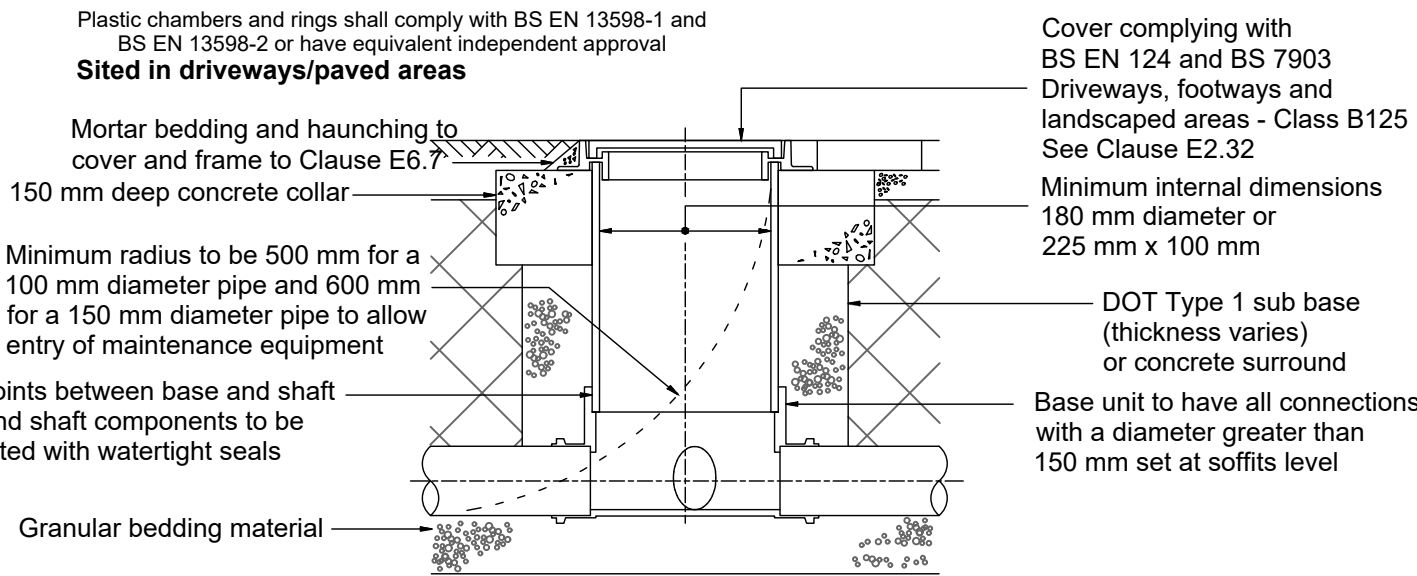
CLASS S BEDDING

TABLE 12 MINIMUM DIMENSIONS FOR MANHOLES					
TYPE	SIZE OF LARGEST PIPE (DN)	MIN. INTERNAL DIMENSIONS (1) RECTANGULAR LENGTH AND WIDTH	CIRCULAR DIAMETER	MIN. CLEAR OPENING SIZE (1) RECTANGULAR LENGTH AND WIDTH	CIRCULAR DIAMETER
MANHOLE <1.5m deep to soffit	<= 150 225 300 >300	750 x 675 (7) 1200 x 675 1200 x 750 1800 x (DN+450)	1000 (7) 1200 1200 The larger of 1800 or (DN+450)	750 x 675 (2) 1200 x 675 (2)	na (3)
>1.5m deep to soffit	<= 225 300 375-450 >450	1200 x 1000 1200 x 1075 1350 x 1225 1800 x (DN+775)	1200 1200 1200 The larger of 1800 or (DN+775)	600 x 600	600
MANHOLE SHAFT (4)	Steps (5) Ladder (5) Winch (6)	1050 x 800 1200 x 800 900 x 800	1050 1200 900	600 x 600	600

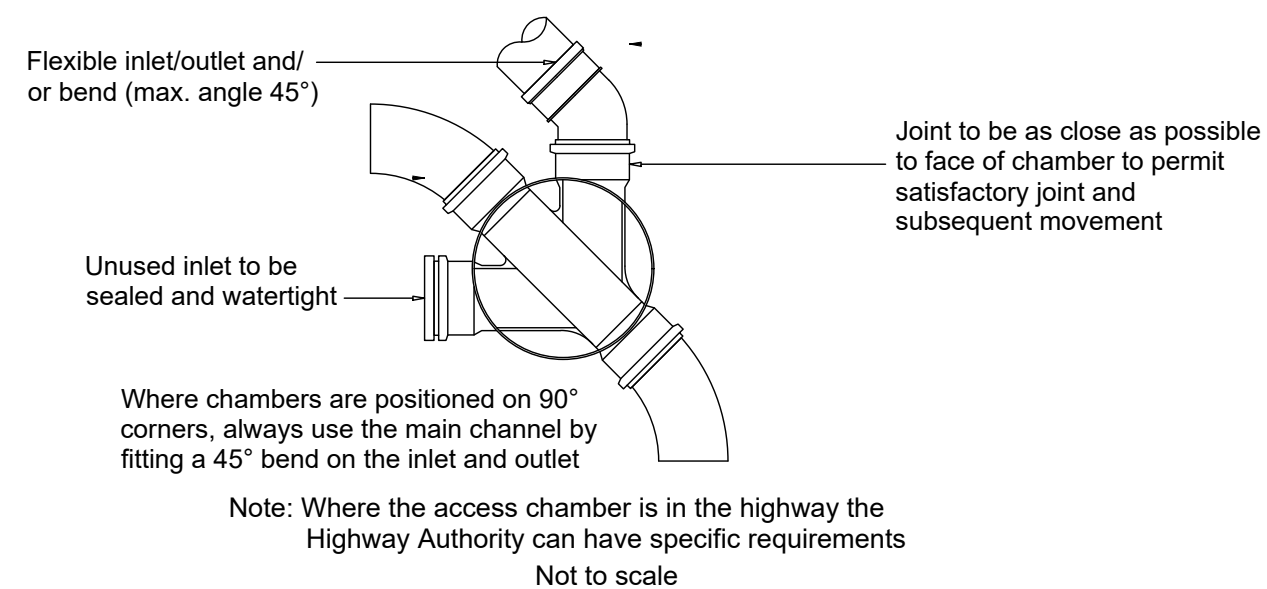
Notes:
(1) Larger sizes may be required for manholes on bends or where there are junctions.
(2) May be reduced to 600 by 600 where required by highway loading considerations, subject to a safe system of work being specified.
(3) Not applicable due to working space needed.
(4) Minimum height of chamber in shafted manhole 2m from benching to underside of reducing slab.
(5) Min clear space between ladder or steps and the opposite face of the shaft should be approximately 900mm.
(6) Winch only - no steps of ladders, permanent or removable.
(7) The minimum size of any manhole serving a sewer (i.e. any drain serving more than one property) should be 1200mm x 675mm rectangular or 1200mm diameter.

TABLE 11 MIN. DIMENSIONS FOR ACCESS FITTINGS AND INSPECTION CHAMBERS					
TYPE	DEPTH TO INVERT FROM COVER LEVEL (m)	INTERNAL SIZES		COVER SIZES	
		RECTANGULAR LENGTH AND WIDTH	CIRCULAR DIAMETER	RECTANGULAR LENGTH AND WIDTH	CIRCULAR DIAMETER
Rodding Eye		As drain but min 100			Same size as pipework (1)
Access Fittings small 150 dia	0.6 or less, except where situated in a chamber	150x100	150	150x100 (1)	Same size as access fitting
large 225x100		225x100	225	225x100 (1)	
Inspection Chamber Shallow	0.6 or less	225x100	190 (2)	-	190 (1)
Deep	1.2 or less >1.2 but <3.0	450x450 450x450	450 450	Min 430x430 max 300x300 (3)	430 Access restricted to max 350 (3)

Notes:
(1) The clear opening may be reduced by 20mm in order to provide proper support for the cover and frame.
(2) Drains upto 150mm.
(3) A larger clear opening may be used in conjunction with a restricted access. The size is restricted for health and safety reasons to deter entry.



TYPICAL INSPECTION CHAMBER DETAIL - TYPE 4
(Flexible material detail)
Maximum depth from cover level to soffit of pipe 2 m, non-entry



REV	DATE	BY	DESCRIPTION	CHK	APPD
-----	------	----	-------------	-----	------

DRAWING STATUS:					
-----------------	--	--	--	--	--

HCE		HCE Limited Canolfan Gorseion Centre Millers Drive Gorseion SA4 4QN			
Civil Engineering Structural Engineering Structural Surveys Project Management Petrochemical		Tel: 01792 805010 Email: info@hcelimited.com Web: www.hcelimited.com			

CLIENT:	RPM Ltd
---------	---------

ARCHITECT:	THOMAS LOGIN ARCHITECTURE
------------	---------------------------

PROJECT:	MARGAM TRUCK STOP TYN Y CAEU, MARGAM
TITLE:	STANDARD MANHOLE DETAILS DRAINAGE DETAILS SHEET 1

SCALE @ A1:	N.T.S.	CHECKED:	IH	APPROVED:	IH
CAD FILE:	HCE-1374-SK02	DESIGN-DRAWN:	MJ	DATE:	May 2020
PROJECT No:	1374	DRAWING No:	SK02	REV:	R02