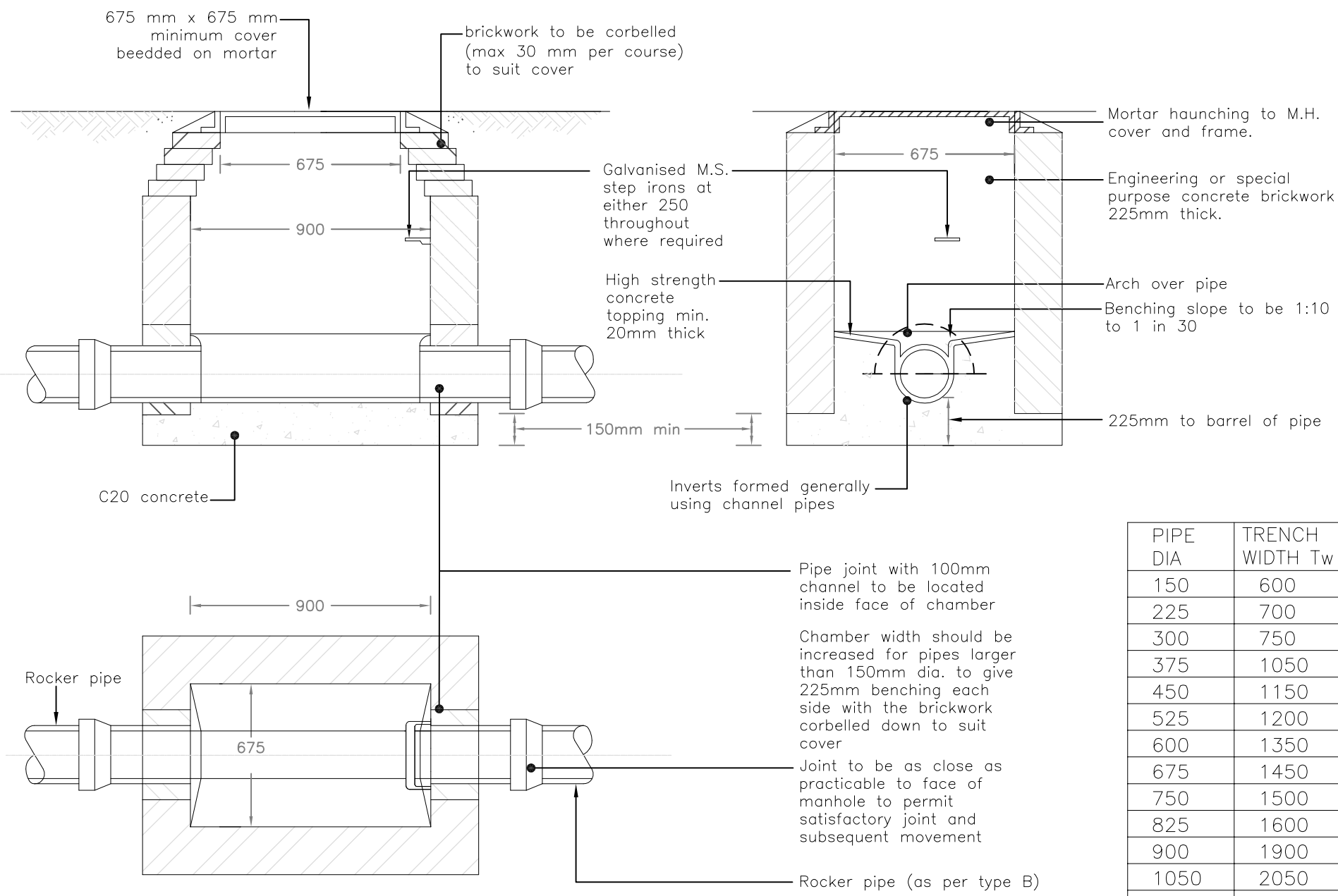
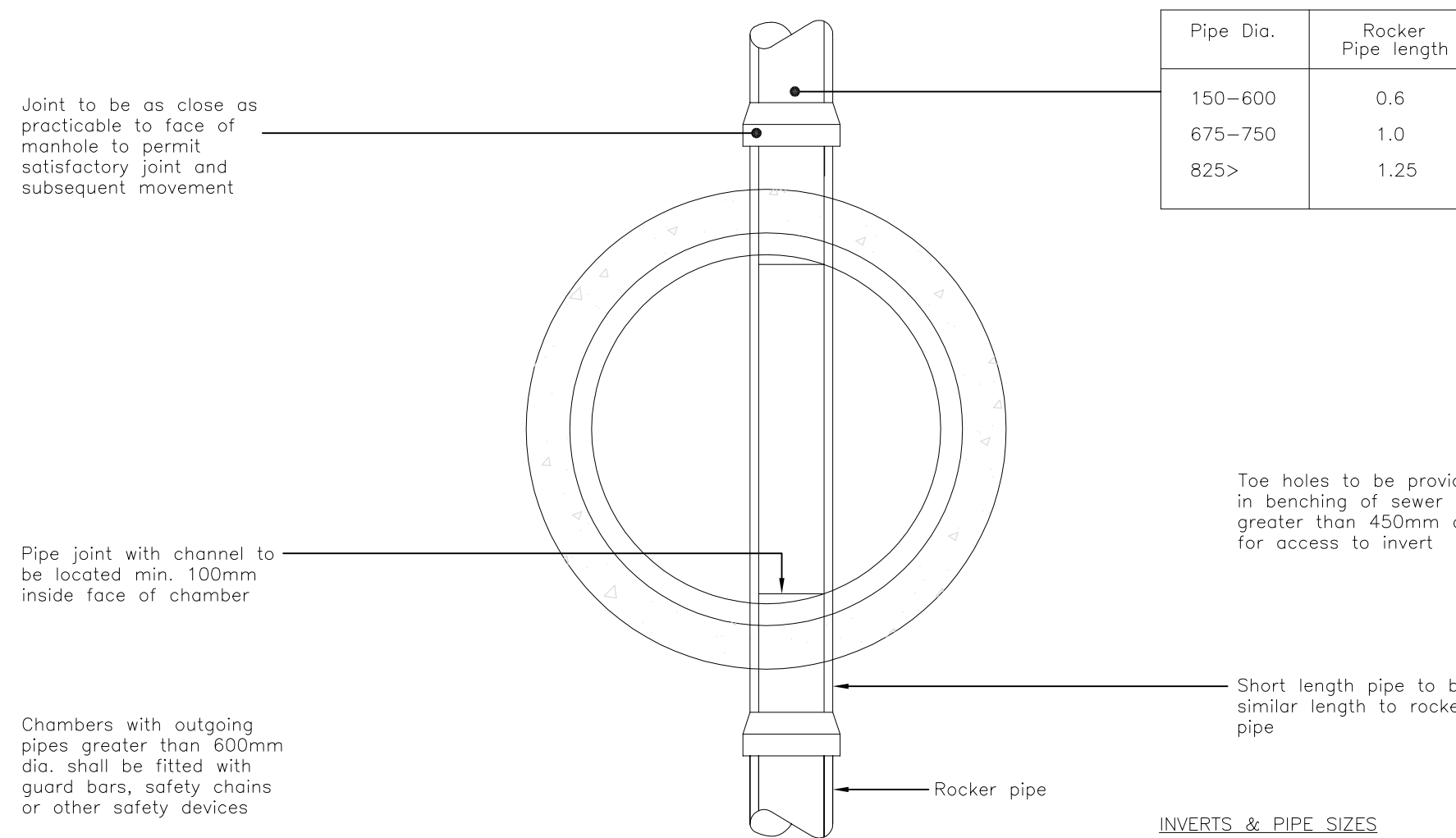
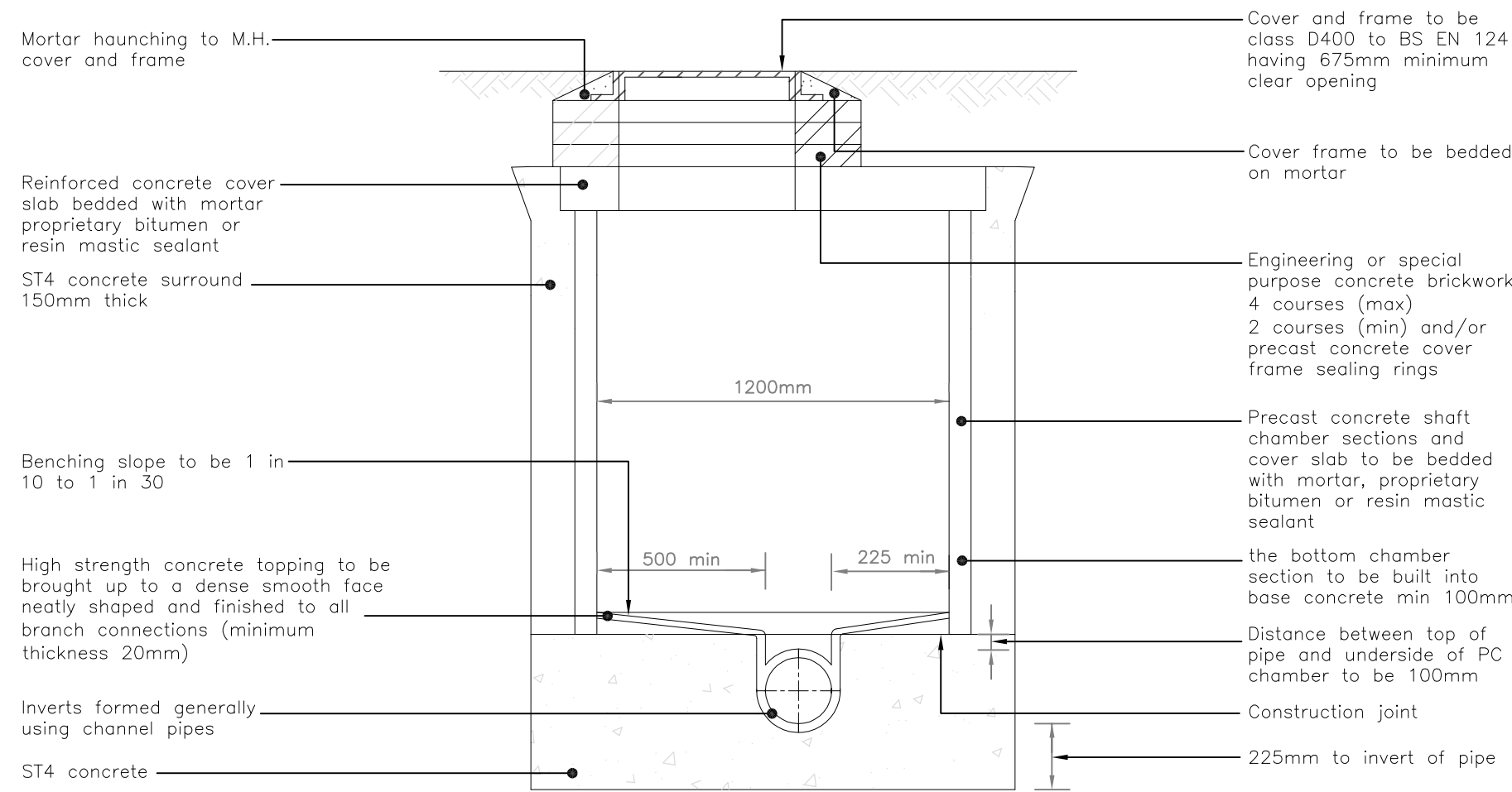




MANHOLE DETAIL – TYPE D
DEPTH TO SOFFIT < 1.0m

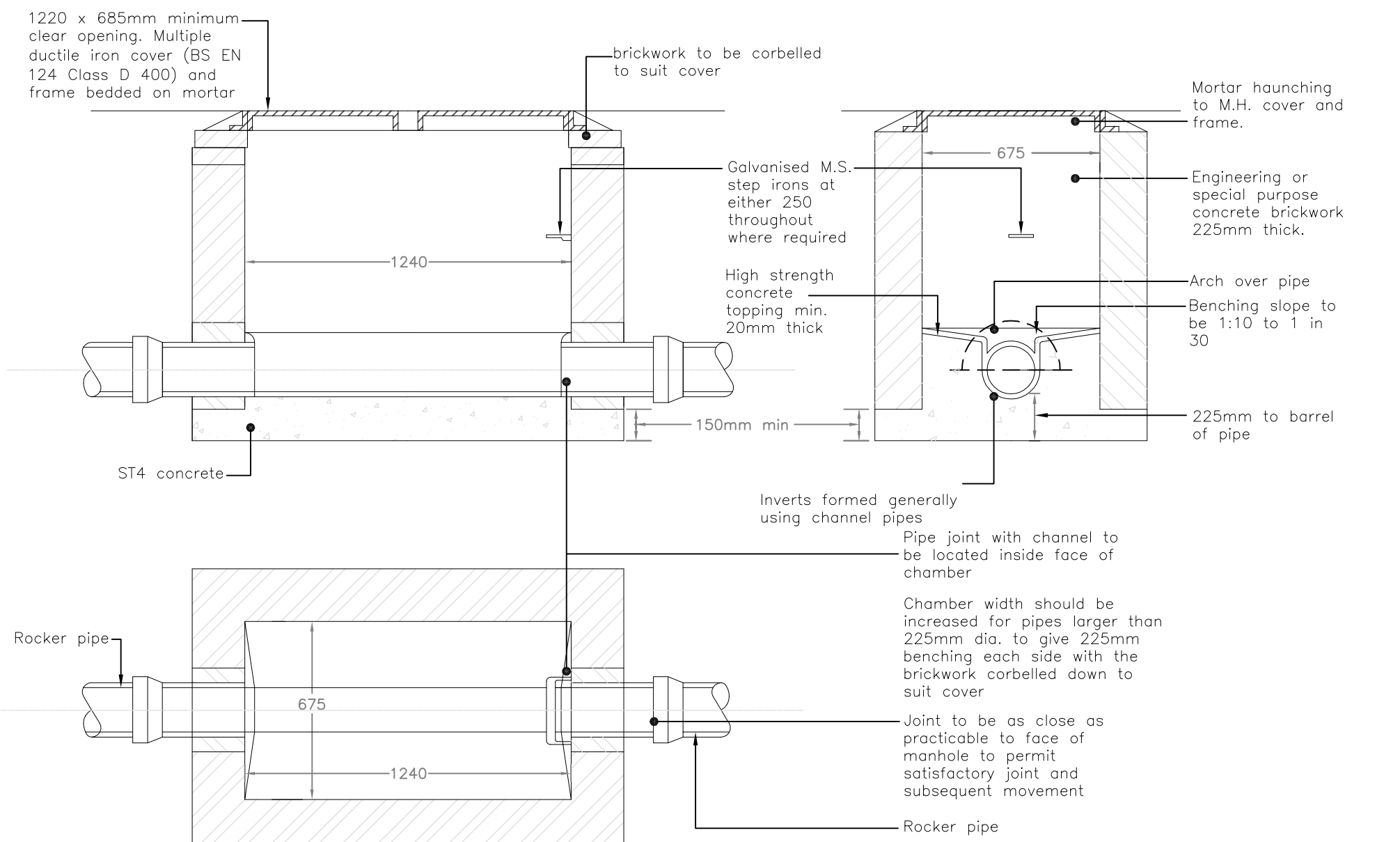
MANHOLE COVER & FRAMES	
Road Description	Min frame depth mm
Bus Routes	150
All residential roads except cul-de-sacs	150
Residential cul-de-sacs	100



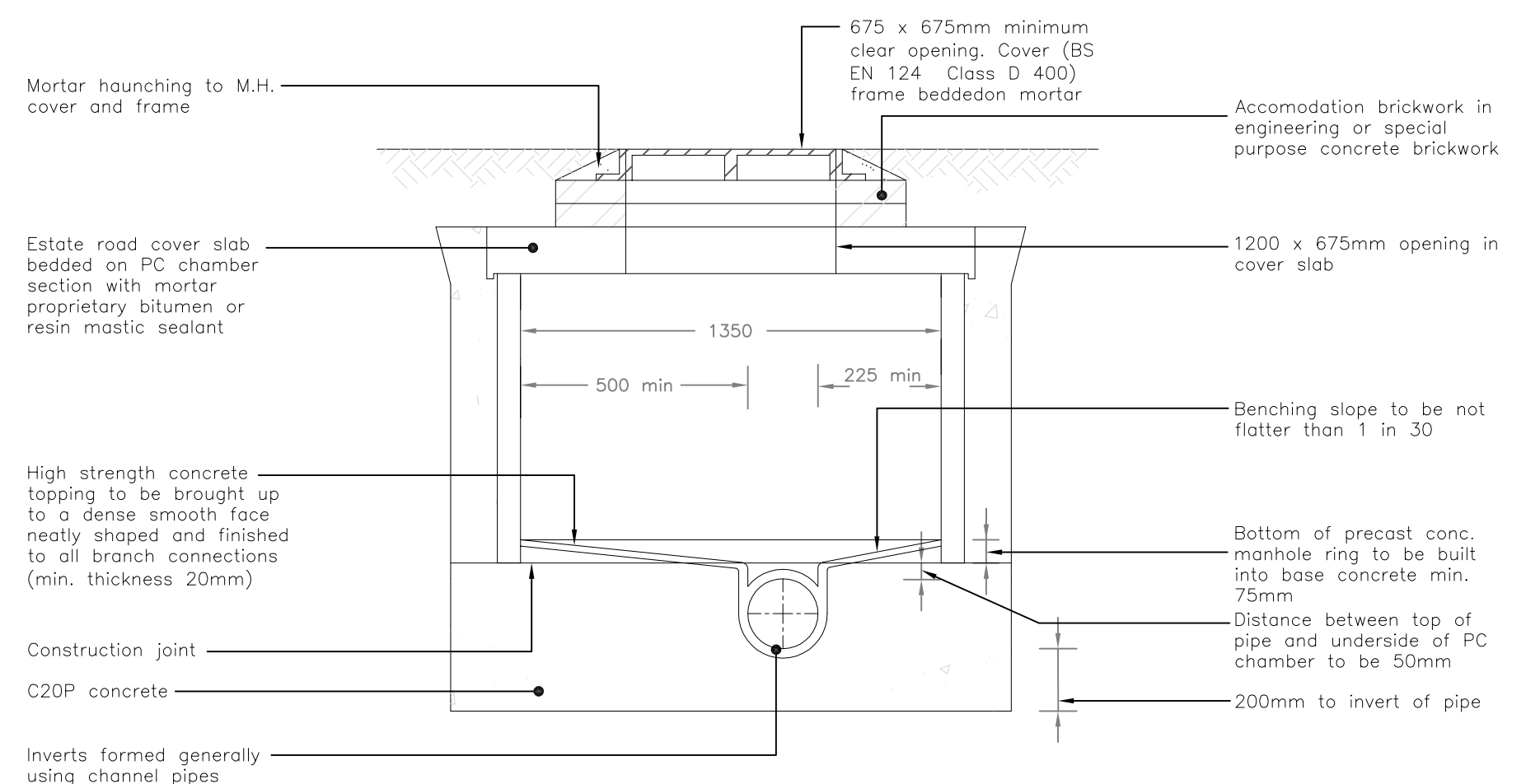
MANHOLE DETAIL – TYPE B
DEPTH TO SOFFIT 1.45 TO 3.0m

Pipe Dia.	Rocker Pipe length
150–600	0.6
675–750	1.0
825>	1.25

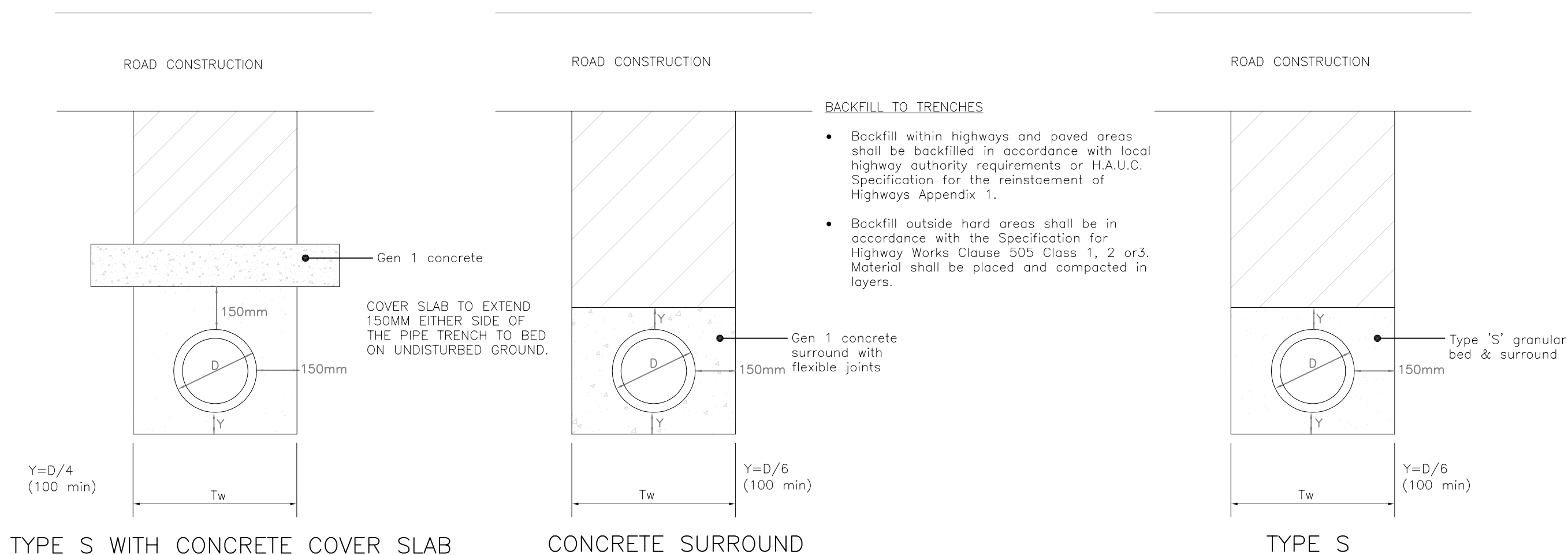
- INVERTS & PIPE SIZES**
- All channel in chambers shall have a continuous gradient equal to the gradient of the incoming or outgoing pipe throughout the width of chamber.
 - All pipes to be laid soffit to soffit unless otherwise specified.



MANHOLE DETAIL – TYPE C
DEPTH TO SOFFIT 1.0 TO 1.45m



MANHOLE DETAIL – TYPE E
DEPTH TO SOFFIT 1.0 TO 1.45m



BACKFILL TO TRENCHES

- Backfill within highways and paved areas shall be backfilled in accordance with local highway authority requirements or H.A.U.C. Specification for the reinstatement of Highways Appendix 1.
- Backfill outside hard areas shall be in accordance with the Specification for Highway Works Clause 505 Class 1, 2 or 3. Material shall be placed and compacted in layers.

GRANULAR BEDDING & SURROUND

Granular bedding for pipes shall comply with Cl 2.88 of CESWI, sized in accordance with the following table:

Nominal Bore of Pipe (mm)	Alternative Aggregate Sizes (mm)		CF Value Max
	Single-Sized	Graded	
100–150	10	–	0.2
225–300	10 or 14	14 to 5	0.2
375–525	10,14 or 20 14 or 20	14 to 5 or 20 to 5	0.2
Exceeding	14,20 or 40	14 to 5, 20 to 5 or 40 to 5	0.15
			0.5

PIPE BEDDING DETAILS

GENERAL NOTES:

- This drawing to be read in conjunction with all other engineering details.
- All Section 104 work shall be in accordance with the document 'Sewers for Adoption' 6th Edition as published by WRc plc, The Civil Engineering Specification to the Water Industry and the Water Authorities requirements.
- All adoptable works to be checked by the Water Authority inspector.

B	04.11.16	Manhole type A removed	JS
A	25.10.16	Manhole type A & B ladders and steps removed	JS
REV. No.	DATE	DESCRIPTION	INITIALS
Client		 PERSIMMON HOMES (South Coast) LTD  MJA CONSULTING CIVIL AND STRUCTURAL ENGINEERS Monarch House, Barton Lane, Abingdon, Oxon, OX14 3NB Tel: 01235 555173 Fax: 01235 523226 	
Project	Purbrook Park School Waterlooville		
Title	Sewer Details		Scale As Shown Date Sept '16 Checked AMc Drawn JS Drawing No. 5444:21 Rev B