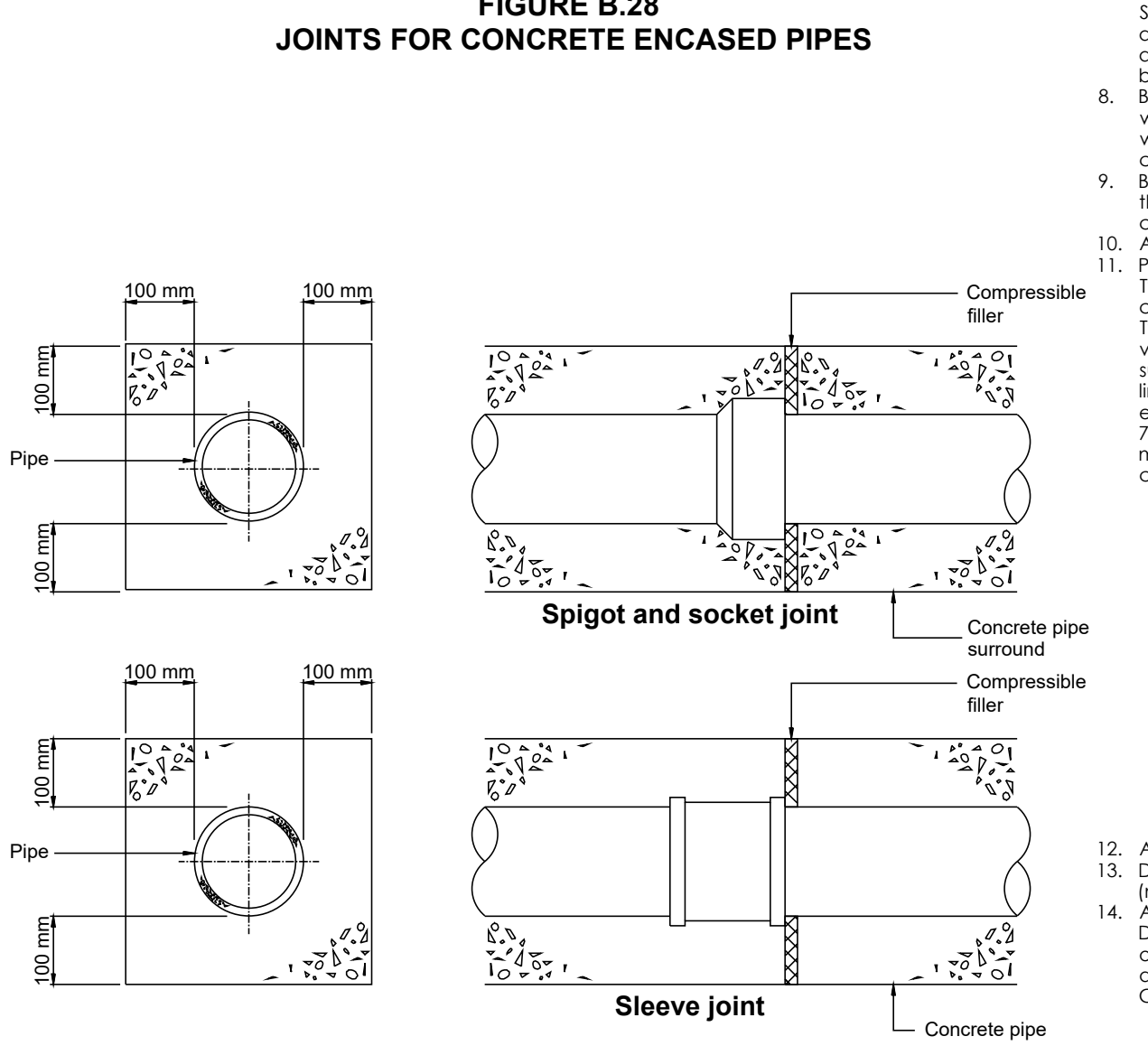
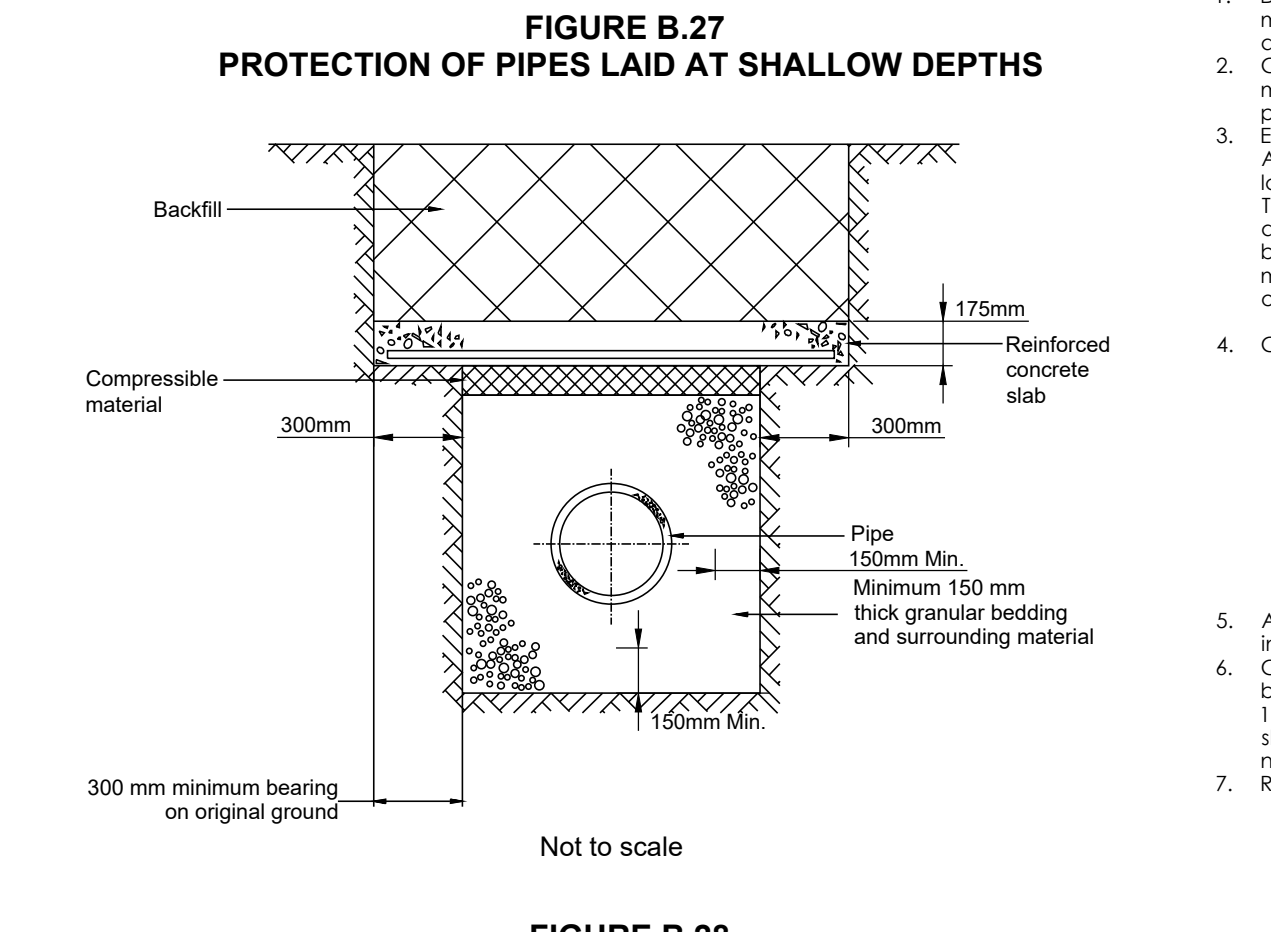
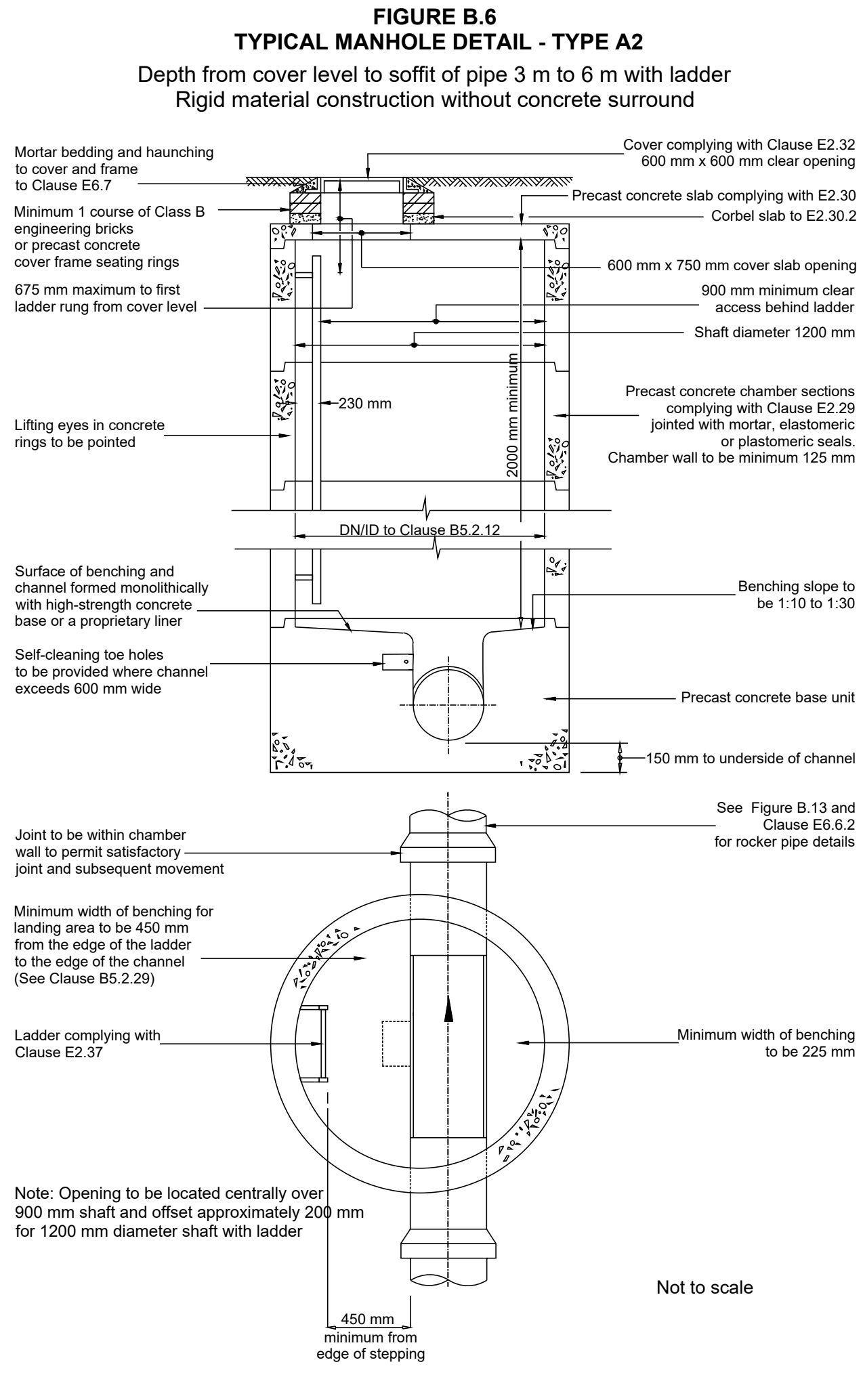
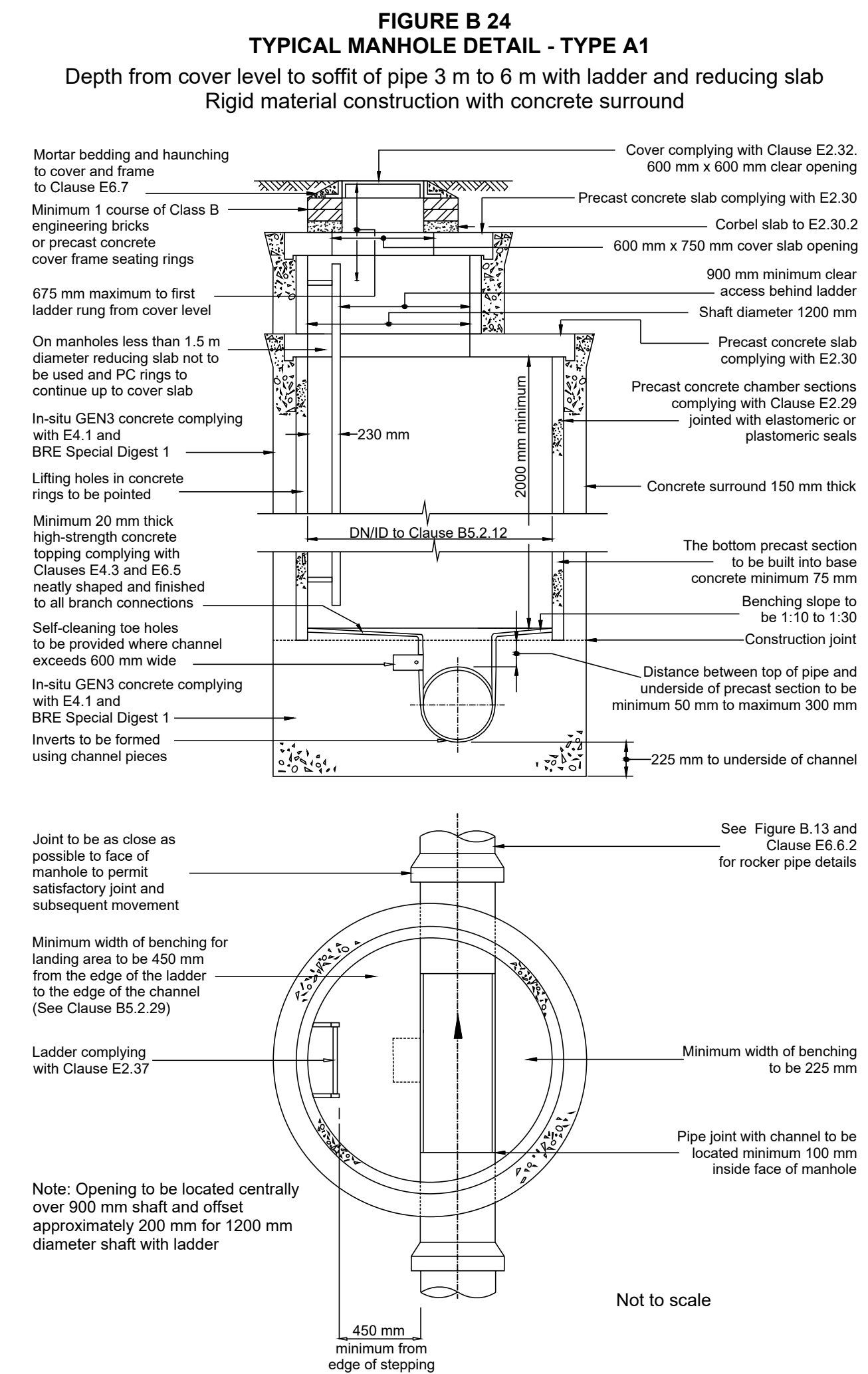
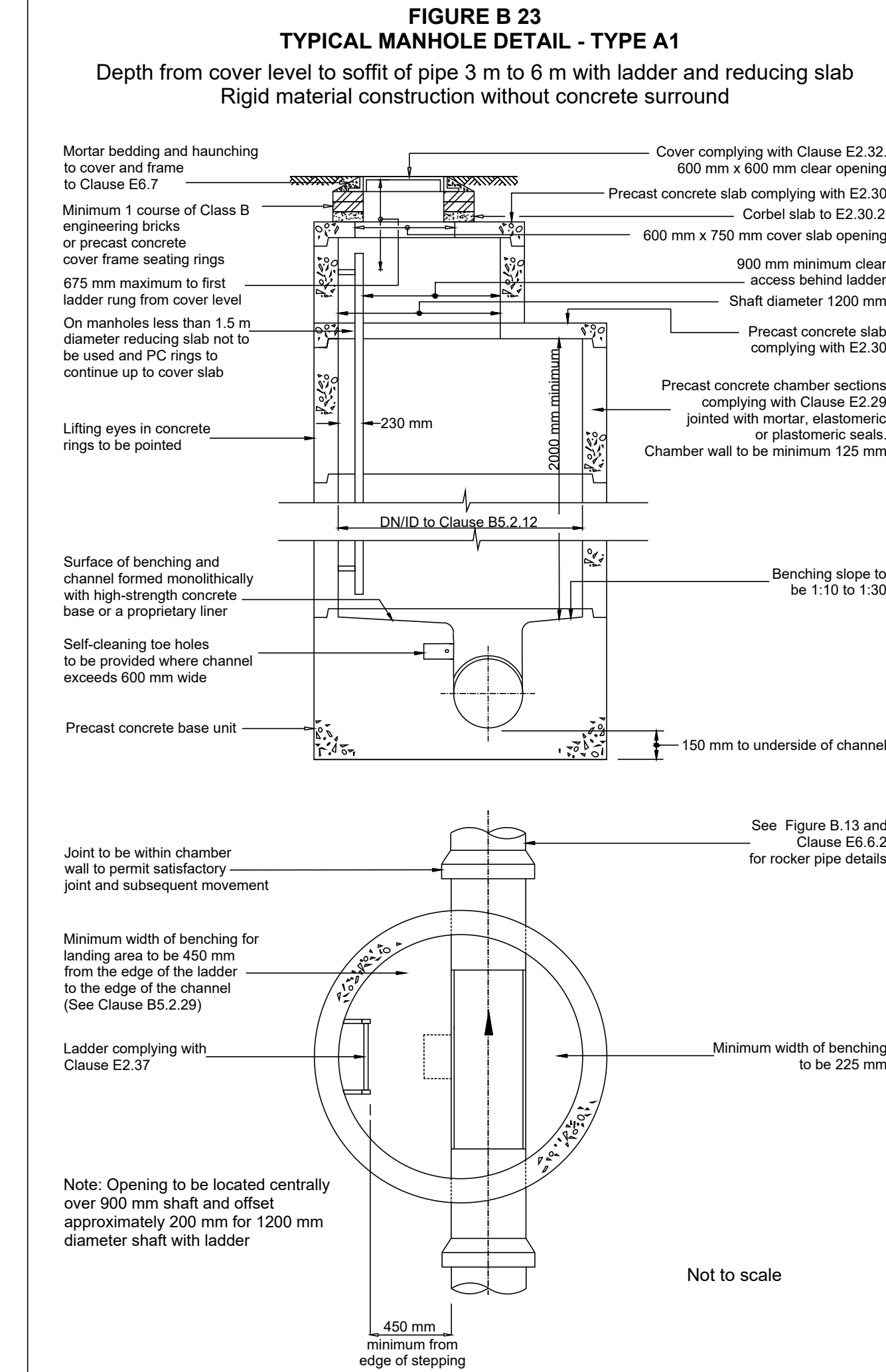
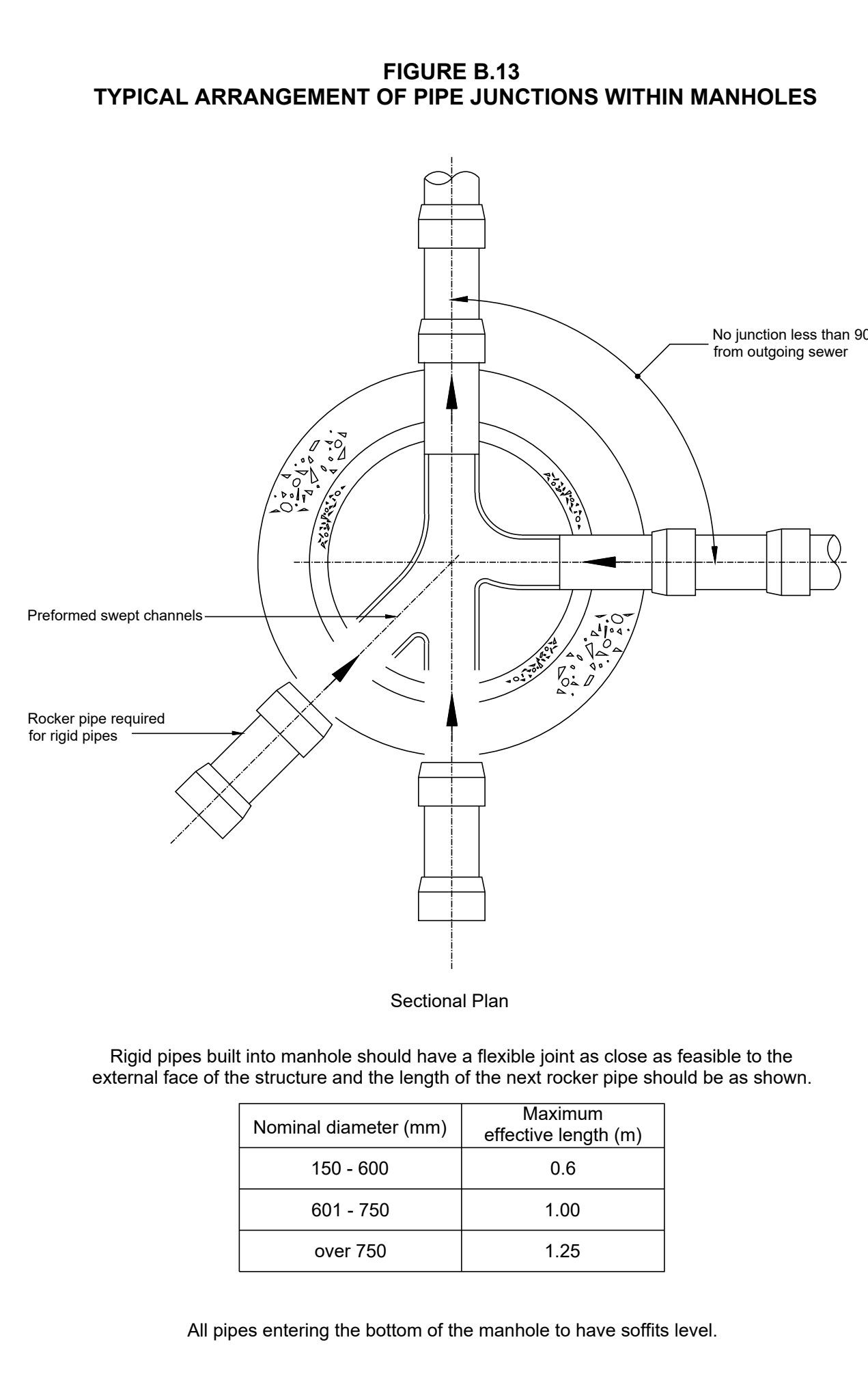
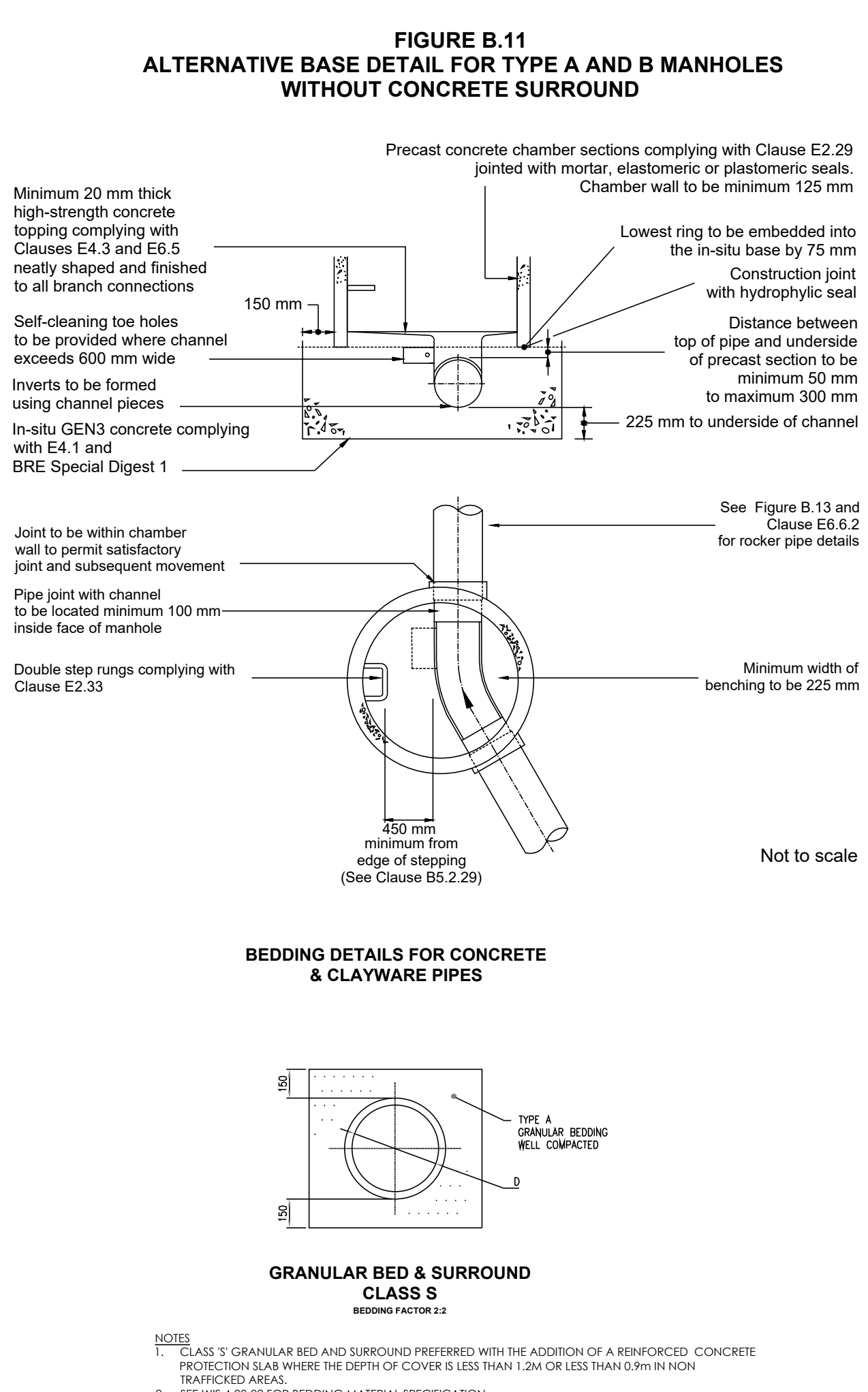
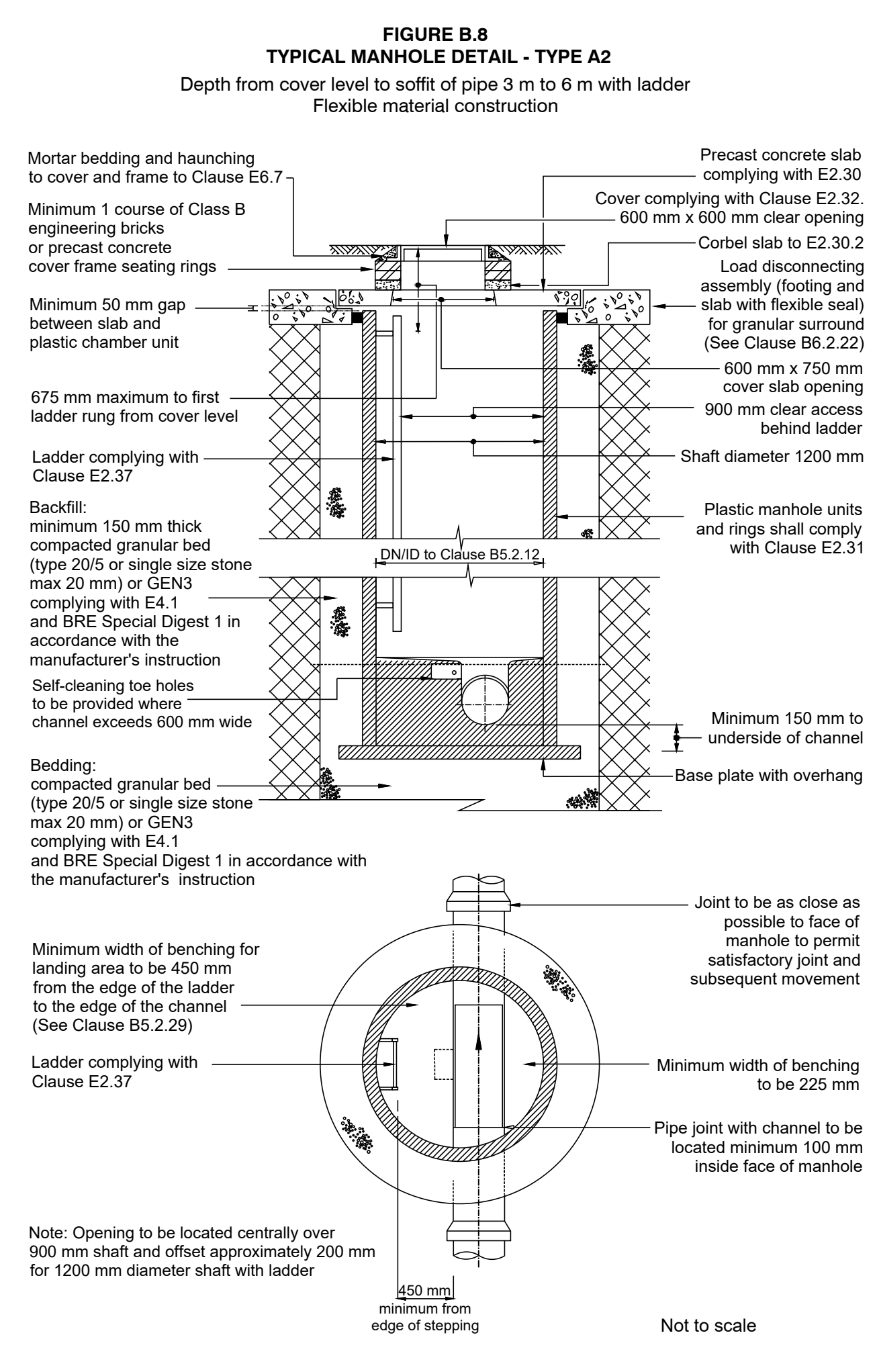
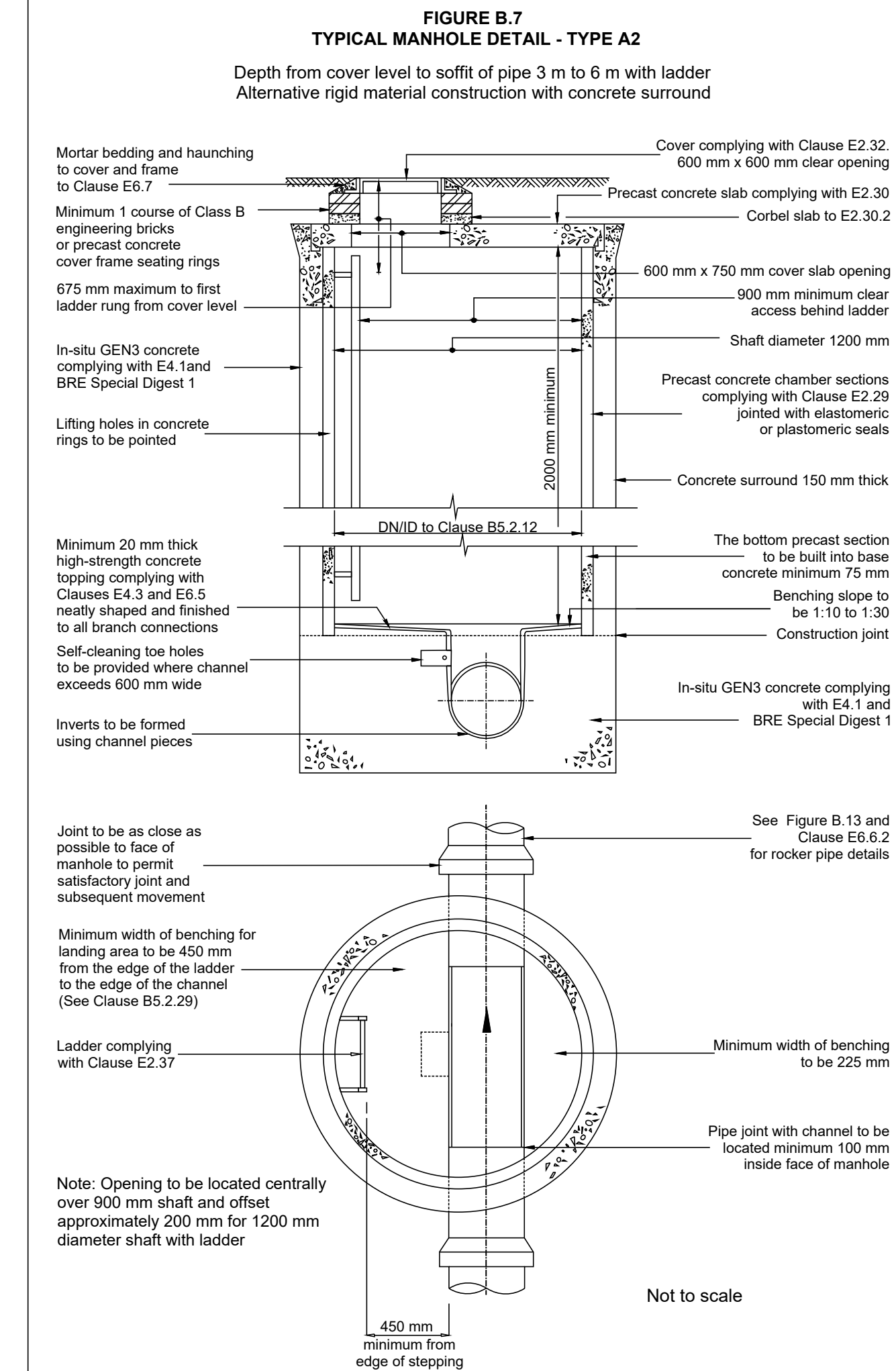




- NOTES:
- D400 covers & frames with kitemark to be used on all adoptable manholes. All covers to be embossed with FW/SW as appropriate. 150mm deep, non rocking cover and frames to be used.
 - Cover and Reducing slabs, shaft and chamber rings to be bedded with mortar, proprietary bitumen or resin mastic sealant. All filling holes to be pointed.
 - Ensure all slab openings and step irons, ladders are properly aligned. At the foot of each ladder or set of step rungs, a minimum of 450 mm landing area should be provided from the outer edge of the step or rung. This may consist of:
a) a single area adjacent to the foot of the ladder or steps; or
b) where the channel is no more than DN450, one area of at least 225 mm adjacent to the foot of the ladder or steps with the remainder on the other side of the channel.
 - Chamber Diameters:

Dia. of largest pipe in M.H. (mm)	Dia. of chamber ring (mm)
Less than 375	1200
375-450	1500
500-700	1800
750-900	2100
1050-1200	2400
1350-1500	2700
 - Above sizes are minimum and may need increasing for more than one incoming pipe to accommodate adequate benching.
 - Concrete mix to be in accordance with the chemical analysis report for buried concrete for the site concerned. High strength tapping to BS EN 12620 and PD 6482-1 to be brought up to a dense smooth face neatly shaped and finished to all branch connections. Benching slope to be not flatter than 1 in 30.
 - Rocker/Short pipe lengths:

Pipe dia. (mm)	Rocker pipe length (m)
150-600	0.6
601-750	1.00
over 750	1.25
- Short length pipes to be similar length to rocker pipe. Manhole to large diameter sewers. Chambers with outgoing pipes greater than 600mm dia. to be constructed as per detail. Toe holes to be provided in benching of sewers greater than 450mm dia. for access to invert.
- Concrete mix to be in accordance with the chemical analysis report for buried concrete for the site concerned. High strength tapping to BS EN 12620 and PD 6482-1 to be brought up to a dense smooth face neatly shaped and finished to all branch connections. Benching slope to be not flatter than 1 in 30.
 - Brick Manhole Widths. Chamber widths to be increased for pipes larger than 225mm dia. to give 225mm benching each side with the brickwork corbelled down to suit cover.
 - All pipes built into manhole invert should be installed with soffits level.
 - PIPE BEDDING AND BACKFILL MATERIALS Granular bedding and sidefill Type A material shall be imported or selected on-dug material complying with the recommendations of WAA Notes 4:08-02. Selected fill Type B shall consist of uniform readily compactable material, free from vegetable matter, broken bricks and frozen materials, or materials susceptible to spontaneous combustion, and excluding clay of liquid limit greater than 80 and/or plastic limit greater than 55 and materials of excessively high moisture content. Clay lumps and stones retained on 75mm and 37.5mm sieves respectively shall be excluded from the fill material. Pipe bedding and fill materials to concrete pipes shall not contain more than 0.3% sulphate, expressed as sulphur trioxide.
- TRENCH WIDTHS
- | Pipe dia. (mm) | BC (mm) | BD (mm) |
|----------------|---------|---------|
| 150 | 190 | 600 |
| 225 | 280 | 700 |
| 300 | 380 | 750 |
| 375 | 500 | 1050 |
| 450 | 580 | 1150 |
| 525 | 670 | 1200 |
| 600 | 750 | 1350 |
| 750 | 960 | 1560 |
| 900 | 1140 | 1760 |
| 1350 | 1620 | 2220 |
| 1500 | 1740 | 2340 |
| 1800 | 2090 | 2690 |
- All Adoptable Drainage pipes to be of spigot & socket type connection.
 - During construction all outfall manholes to be fitted with debris screen (mesh size 25mm), over the outgoing pipes
 - All Adoptable Drainage Works shall comply with the requirements of Design and Construction Guidance for foul and surface water sewers offered for adoption under the Code for adoption agreements for water and sewerage companies operating wholly or mainly in England ("the Code") Approved Version 2.0



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

- NOTES:
- CLASS 'S' GRANULAR BED AND SURROUND PREFERRED WITH THE ADDITION OF A REINFORCED CONCRETE PROTECTION SLAB WHERE THE DEPTH OF COVER IS LESS THAN 1.2m OR LESS THAN 0.9m IN NON TRAFFICKED AREAS.
 - SEE WD 4:08/02 FOR BEDDING MATERIAL SPECIFICATION
 - REFER TO IGN 4:11-02 FOR TRENCH WIDTH DETAILS

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

REV	DESCRIPTION	DATE
STATUS: PRELIMINARY		
SCALE: NTS @ A1		
DATE: Oct 2025		
DRAWN: IDL		
TITLE: Adoptable Drainage Details Sheet 1		
PROJECT: London Road, St Ippolyts		
DRG. No.: 1331-03-04		
FILE REF: 1331-03-04_07		



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