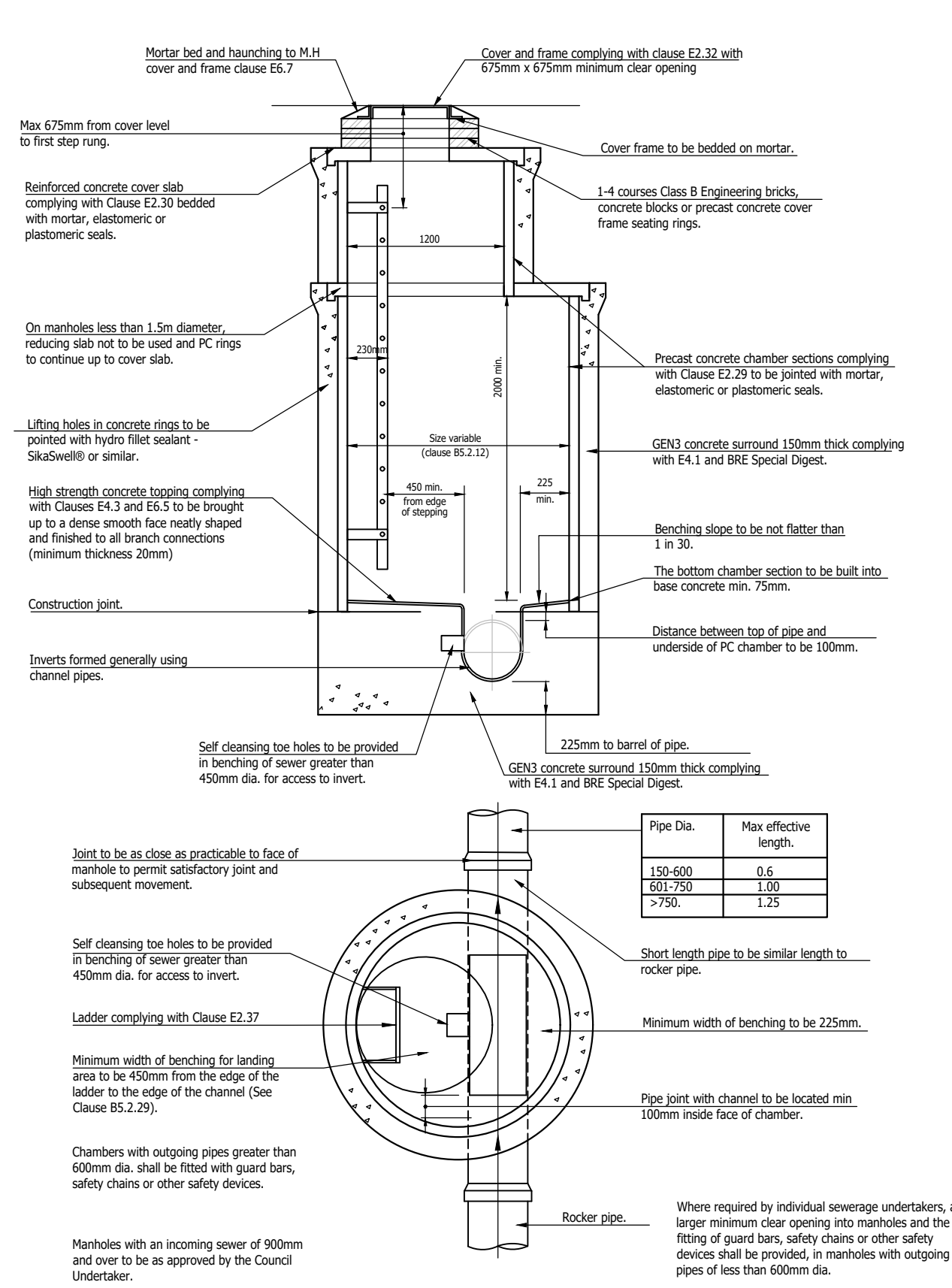
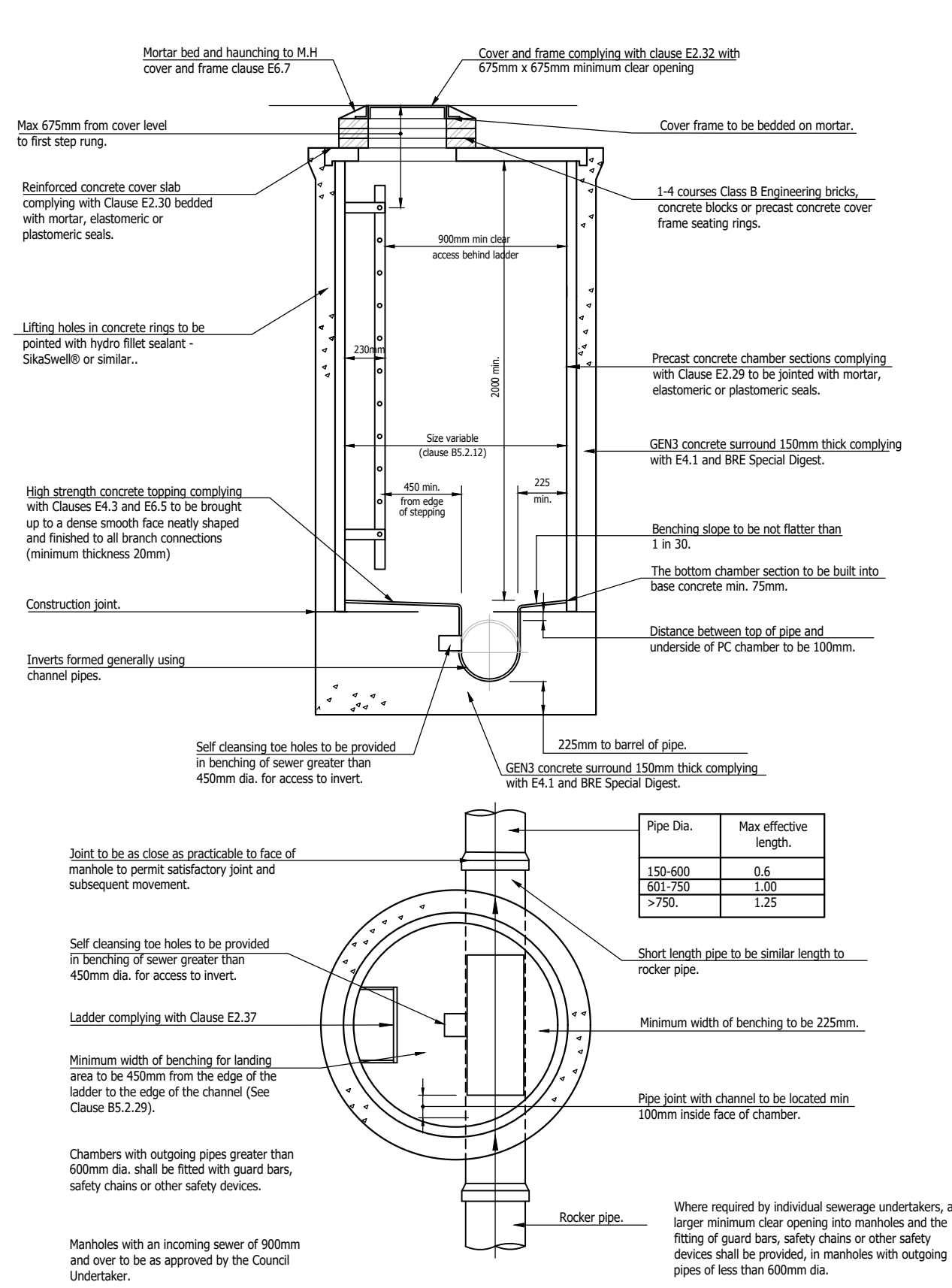
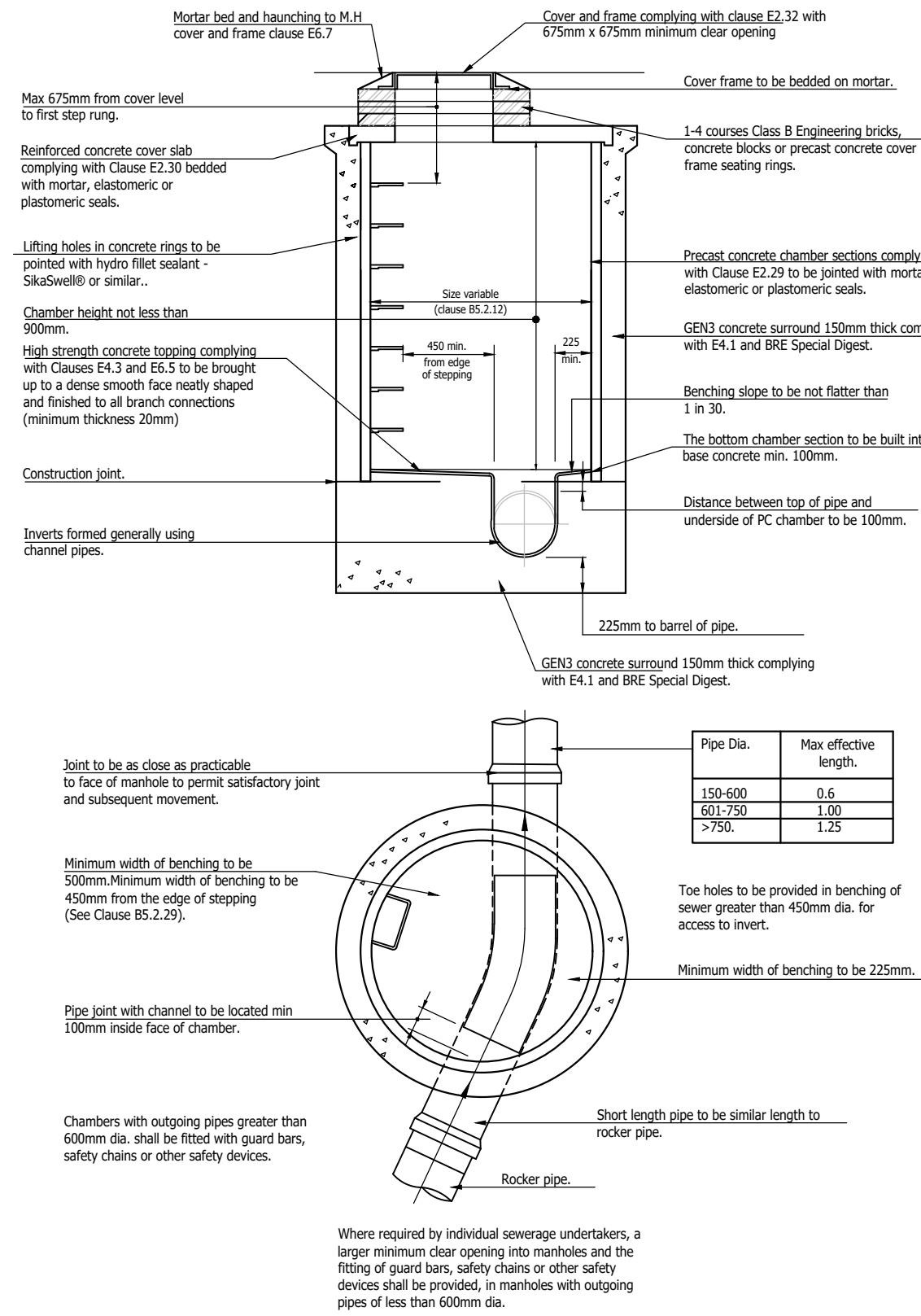




TYPICAL MANHOLE DETAIL - TYPE A1
Depth from cover level to soffit of pipe 3m to 6m



TYPICAL MANHOLE DETAIL - TYPE A2
Depth from cover level to soffit of pipe 3m to 6m



TYPICAL MANHOLE DETAIL - TYPE B
Depth from cover level to soffit of pipe 1.5m to 3m

NO WORKS TO COMMENCE UNTIL SECTION 104 AGREEMENT IS SIGNED BY ALL PARTIES.

ALL ADOPTABLE ELEMENTS OF THE WORKS TO BE CONSTRUCTED AS DETAILED IN THE SECTOR GUIDANCE IN RELATION TO THE ADOPTION OF SEWERAGE ASSETS BY SEWERAGE COMPANIES IN ENGLAND AS ENABLED BY WATER UK'S CODE FOR ADOPTIONS.

Pipe Bedding & Sidelift Materials.

Type A bedding material shall be aggregates conforming to BS 882, or BS EN 12620, nominal single-size or graded complying with the recommendations of Wils No. 4-08-01 as follows :-

Pipe dia. (mm)	Single-size.	Graded.
Over 100 to 150	10mm nominal single-size.	
Over 150 to 500	10 or 14mm nominal single-sized.	14mm to 5mm graded
Over 500	10,14 or 20mm nominal single-sized.	14 or 5mm graded or 20mm to 5mm graded.

Type B material shall be selected excavated or imported material consisting of uniform, readily compatible material, free from vegetable matter, building rubbish and from materials, or materials susceptible to spontaneous combustion, and excluding clay of liquid limit greater than 60 and/or plastic limit greater than 55 and materials of excessive high moisture content. Clay lumps and stones retained on 75mm and 37.5mm sieves respectively shall be excluded from the fill material.

Pipes Laid with a Concrete Bedding

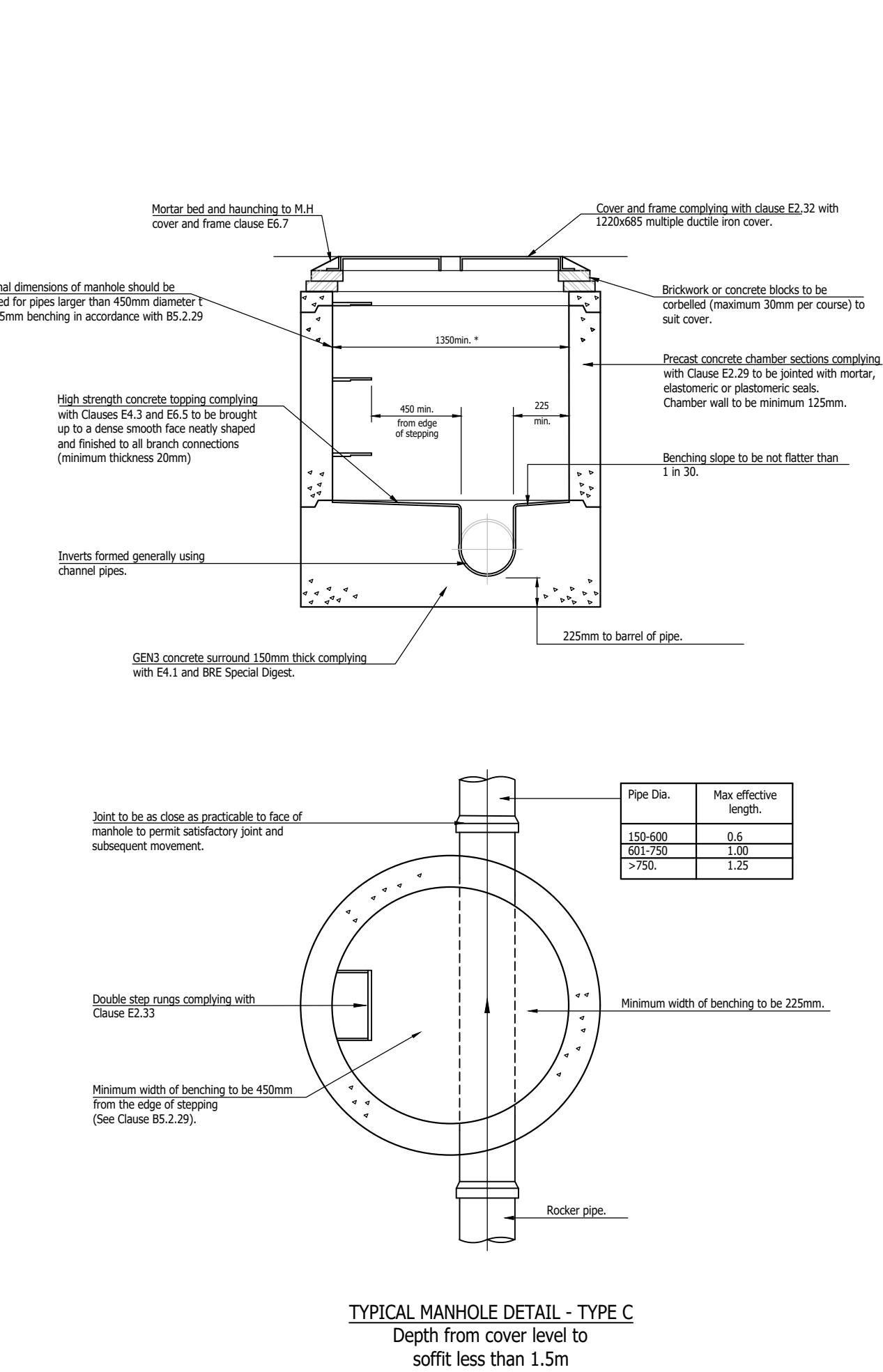
Class A concrete surround to be minimum cube strength at 28 days of 20N/mm² for non-aggressive soils. For aggressive soil conditions the concrete mix shall be in accordance with the requirements of BRE Digest 250, or BRE paper CP23/77 as appropriate. The backfill, other than the first 150mm of cover, should not be placed before the compressive strength of the site concrete has reached 14N/mm². The concrete mix should be so designed that this is reached without unnecessary delay.

Compressible Filler and Packing for Pipelines.

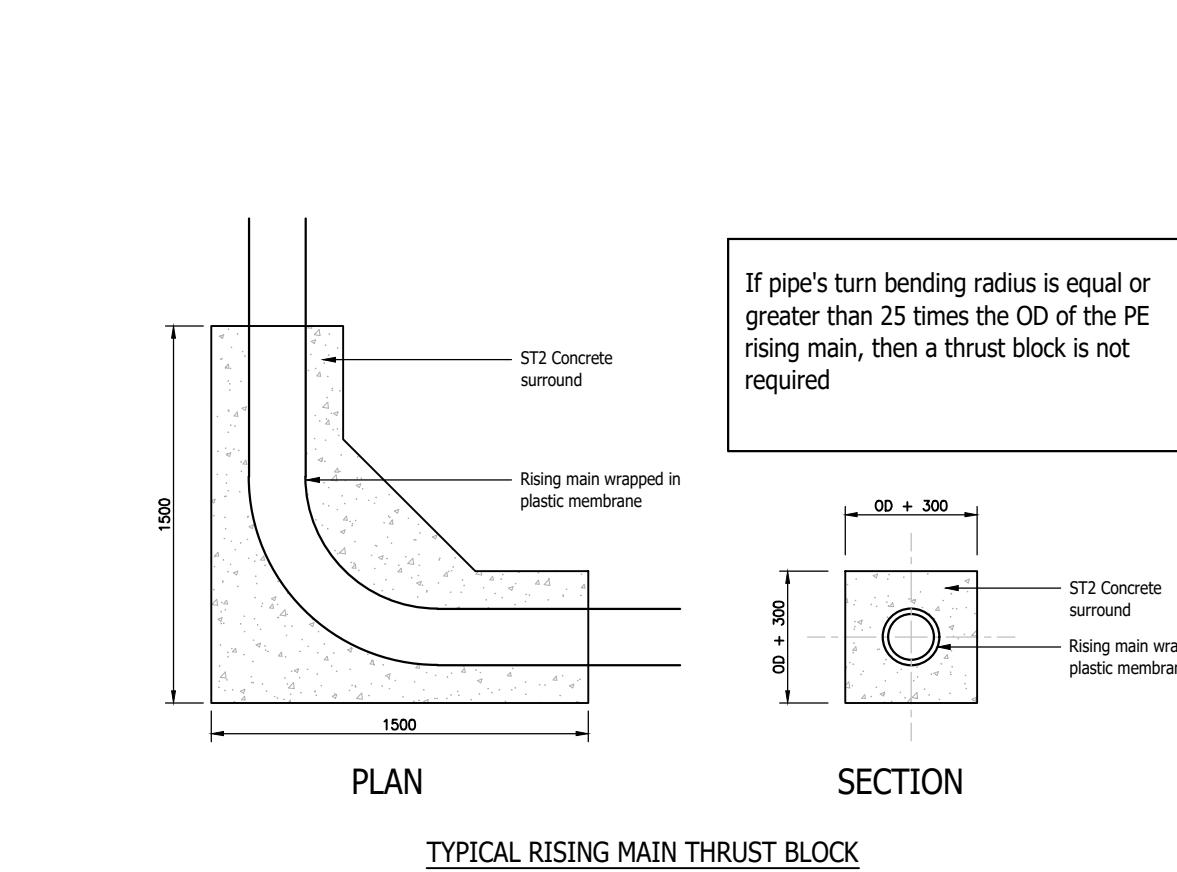
Compressible filler for interrupting concrete protection to pipelines shall consist of bitumen impregnated insulating board to BS 1142, or other equally compressible material. The thickness of compressible filler shall be as follows :-

Nominal diameter of pipe (mm)	Thickness of Compressible filler (mm)
Less than 450	18
450 - 1200	36
Exceeding 1200	54

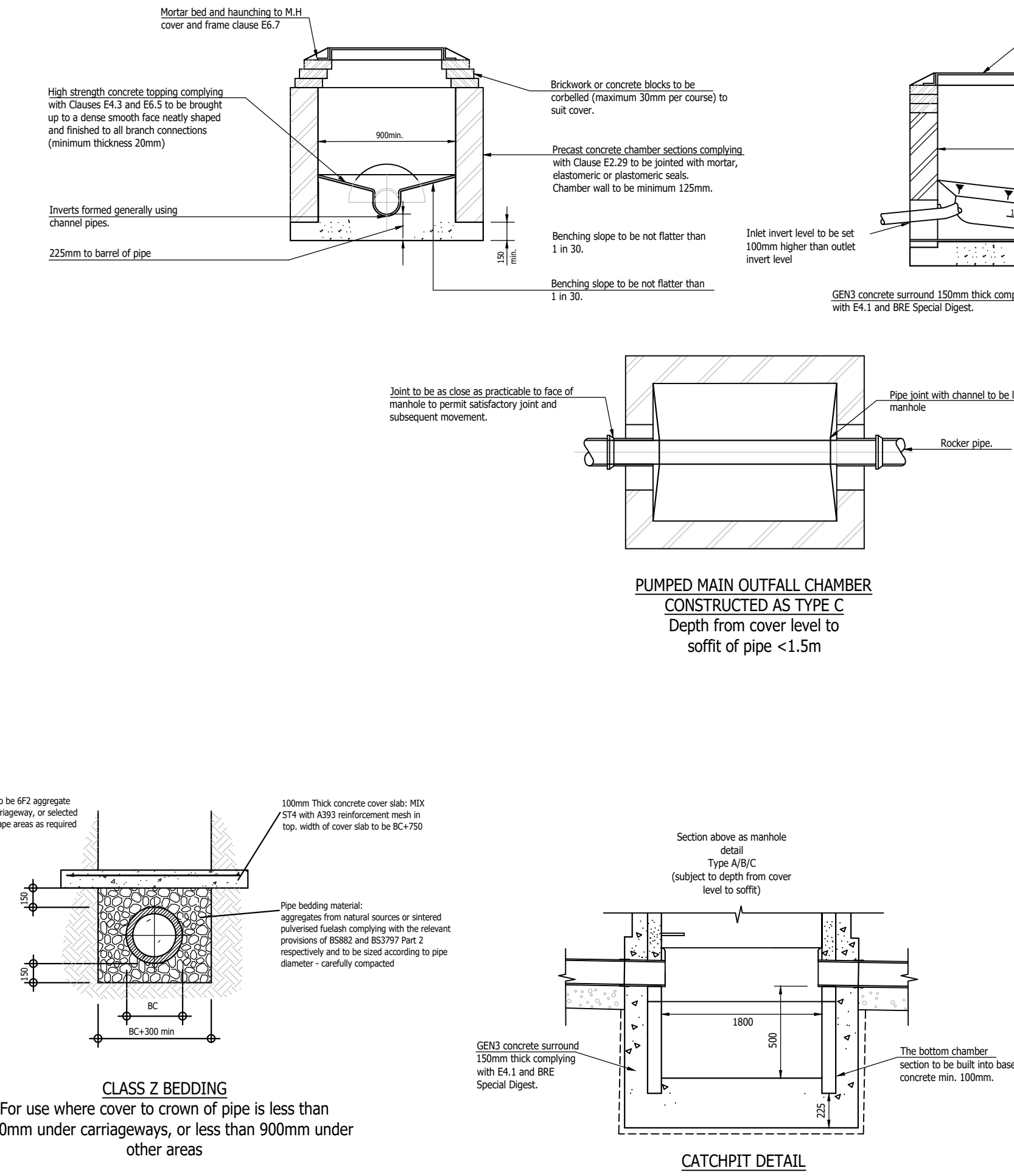
Compressible packing for use between pipes and precast concrete setting blocks shall consist of bitumen damp-proof sheeting complying with BS 743.



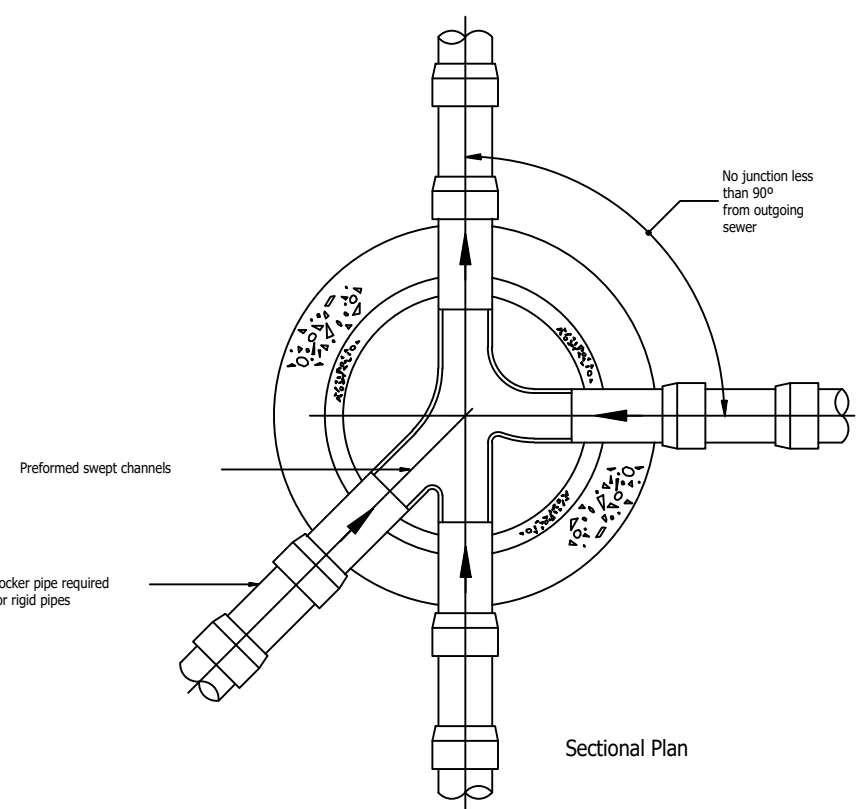
TYPICAL MANHOLE DETAIL - TYPE C
Depth from cover level to soffit less than 1.5m



TYPICAL RISING MAIN THRUST BLOCK



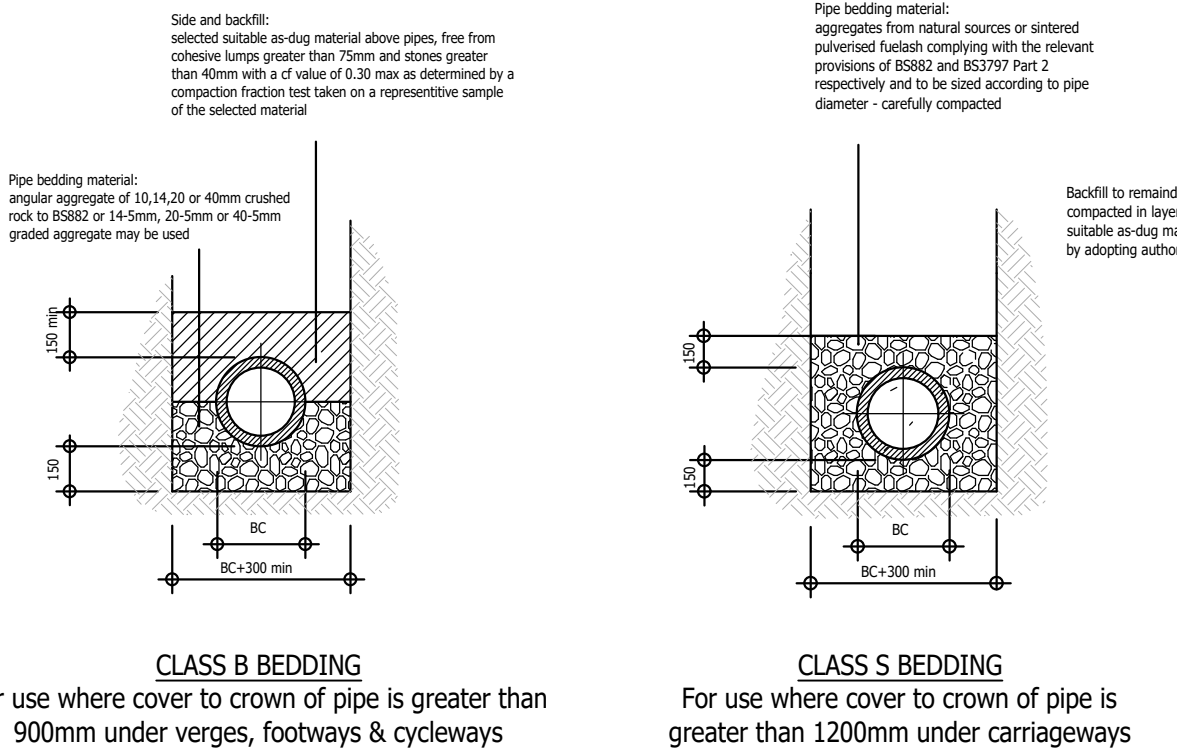
PUMPED MAIN OUTFALL CHAMBER CONSTRUCTED AS TYPE C
Depth from cover level to soffit of pipe <1.5m



TYPICAL ARRANGEMENT OF PIPE JUNCTIONS WITHIN MANHOLES (NTS)

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.



CLASS B BEDDING
For use where cover to crown of pipe is greater than 900mm under verges, footways & cycleways

CLASS S BEDDING
For use where cover to crown of pipe is greater than 1200mm under carriageways

CLASS Z BEDDING
For use where cover to crown of pipe is less than 1200mm under carriageways, or less than 900mm under other areas

PIPE BEDDING DETAILS

GENERAL NOTES

1. The location, size, depth and identification of existing services that may be shown or referred to on this drawing have been assessed from non intrusive observations, record drawings or the like. The contractor shall safely carry out intrusive investigations, trial holes or soundings prior to commencing work to satisfy himself that it is safe to proceed and that the assessments are accurate any discrepancies shall be notified to gta prior to works commencing.

2. Tender or billing drawings shall not be used for construction or the ordering of materials.

3. Do not scale. All dimensions and levels to be site confirmed.

4. This drawing shall be read in conjunction with all relevant architects, consultants drawings and specifications, together with H&S plan requirements.

5. Copyright : This drawing must not be copied, amended nor reproduced without the prior written agreement of gta.

6. All drawings specifications and recommendations made by gta are subject to Local Authority and other relevant Statutory Authorities approval. Any works or services made abortive due to the client proceeding prior to these approvals is considered wholly at the Clients risk. gta hold no responsibility for resulting abortive works or costs.

P7	DRAWING TITLE CHANGED	02.08.22	DT	MR
P6	AMENDED TO SUIT ICOSA WATER COMMENTS	10.05.22	DT	MR
P5	NOTES ADDED (MAX NUMBER OF ENGINEERING BRICKS ON MANHOLES/HYDRO FILLET SEALANT SPECIFICATION).	14.04.22	DT	MR
P4	RIISING MAIN THRUST BLOCK DETAIL ADDED, PUMPED MAIN OUTFALL CHAMBER DETAIL ADDED, CATCHPIT DETAIL ADDED.	29.03.22	DT	MR
P3	RAMPED BACKDROP DETAIL REMOVED	17.03.22	DT	MR
P2	RAMPED BACKDROP DETAIL ADDED	25.02.22	DT	MR
P1	INITIAL ISSUE	14.02.22	DT	MR
Rev	Amendments	Date	Dsn	Chk
Status PRELIMINARY				
Client				
Architect				
Project		SEFTER ROAD BOGNOR REGIS		
Title		MAIN DRAINAGE CONSTRUCTION DETAILS SHEET 1 OF 7		
Date	FEBRUARY 2022	Scale @ A1	NTS	
Clients Ref.		Project Ref.	10768	
 Gloucester House, 66a Church Walk, Burgess Hill, West Sussex, RH15 9AS Tel.01444 871444 Web: www.gtacivils.co.uk				
Drawing Number		10768/1501		Rev.
				P7