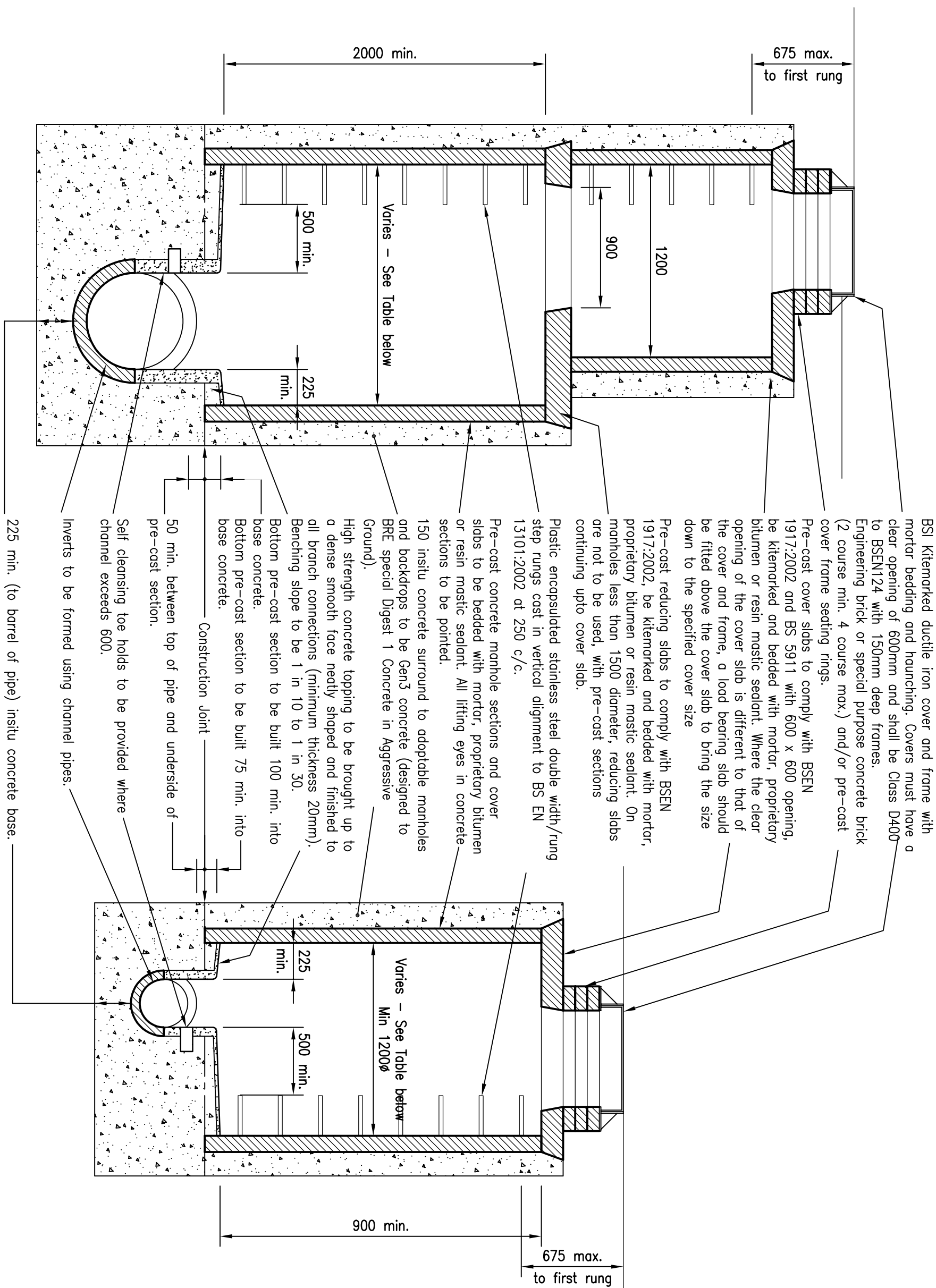


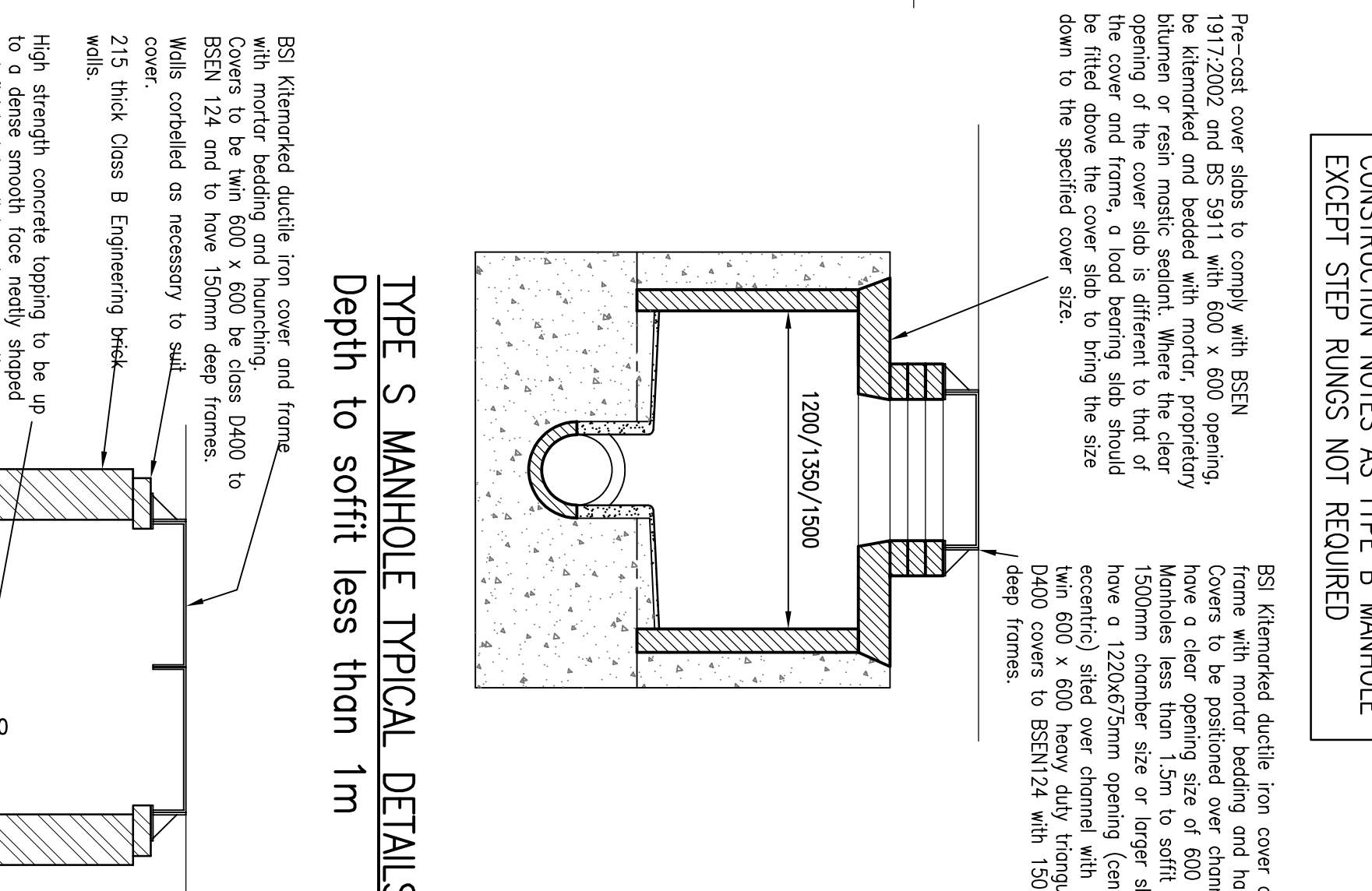
TYPE A MANHOLE TYPICAL DETAILS

Depth to soffit 3m to 6m



TYPE B MANHOLE TYPICAL DETAILS

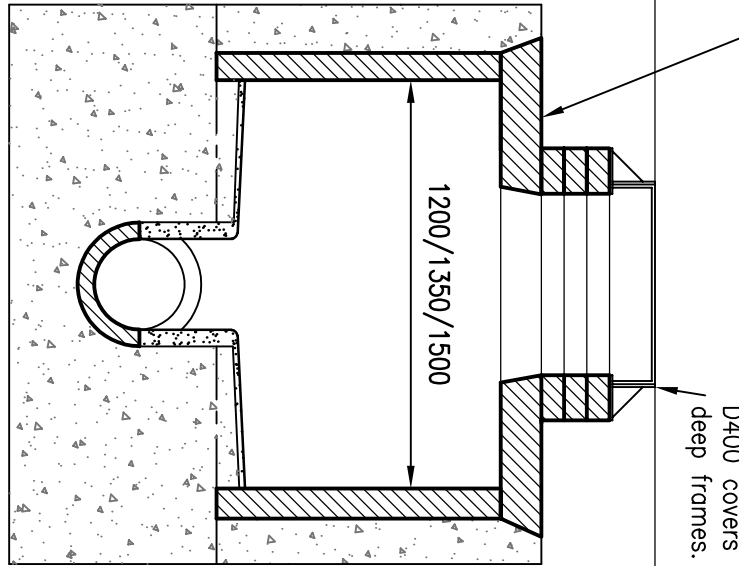
Depth to soffit 1.5m to 3m



TYPE B1/E MANHOLE TYPICAL DETAILS

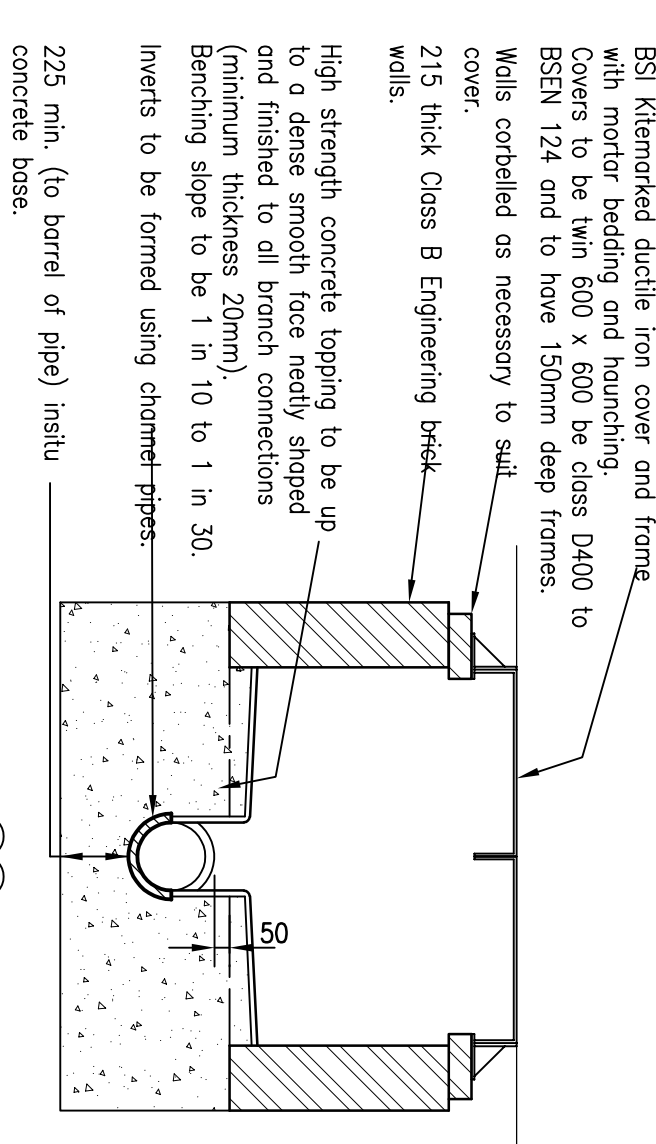
Depth to soffit 1m to 1.5m

CONSTRUCTION NOTES AS TYPE B MANHOLE EXCEPT STEP RUNGS NOT REQUIRED



TYPE S MANHOLE TYPICAL DETAILS

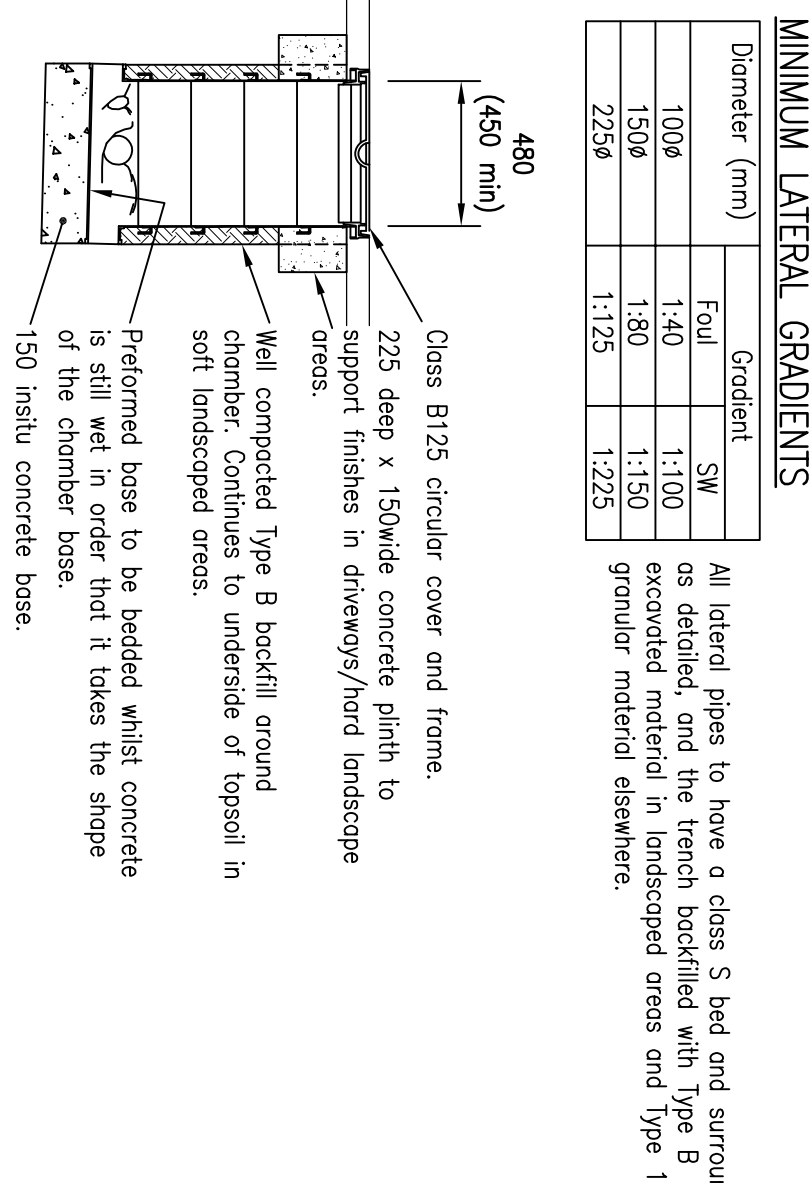
Depth to soffit less than 1m



TYPE C DEMARCATION CHAMBER DETAILS

Depth to invert less than 1.2m

if depth to invert is greater than 1.2m standard Type B and B1 manhole one to be used. Details shown are based on Hepworth PPC.



MINIMUM LATERAL GRADIENTS

Diameter (mm)	Gradient
1000	1:100
1500	1:150
2250	1:225

ALLOWABLE LATERAL PIPE MANUFACTURERS

Product Name	Diameter (mm)	Manufacturer	Material
SuperSleeve	100 & 150 (D)	Hepworth	Virgin Clay
DenseSleeve	100, 150 & 225 (D)	Hepworth	Virgin Clay
Ultra-Dron	100, 150 & 225 (D)	Naylor	Virgin Clay
Prestidron	110 & 160 (OD)	Hepworth	UPVC
Grenadron	110 & 160 (OD)	Wavin	UPVC
Omro UltraRb	150 & 225 (D)	Wavin	UPVC
Solid Wall	150 & 225 (D)	Motley	UPVC
Quantum	110 & 160 (OD)	PolyPipe	UPVC
Underground Drain	150 & 225 (D)	PolyPipe	UPVC
RidgeSewer	150 & 225 (D)	PolyPipe	UPVC

Verified clay pipes to BS EN 295 Kitemarked

Unpasticised PVC pipes to BS 4680:2000 & BS EN 1401-1 Kitemarked

Structured Wall Unpasticised PVC pipes to MS 4-35-01 Kitemarked

ALLOWABLE DEMARCATION CHAMBER MANUFACTURERS

Manufacturer	Product Name	Material	Max Depth	Cover Type
Naylor	Plastic Inspection Chamber	Polypropylene	Up to 1200mm	Class B125
Hepworth	PPIC	Polypropylene	Up to 1200mm	Class B125
Lipcon	Inspection Chamber (450mm)	Polypropylene	Up to 1200mm	Class B125
Morshals	Inspection Chamber to BS 5911 pt 2	PPC	Up to 1000mm	Class B125
Wavin	Omro UltraRb	Polypropylene	Up to 1200mm	Class B125
Grenadron	Universal Inspection Chamber	Polypropylene	Up to 1200mm	Class B125
Motley	Inspection Chamber (450mm)	Polypropylene	Up to 1200mm	Class B125
PolyPipe	110mm Inspection Chamber (450mm)	Polypropylene	Up to 1200mm	Class B125

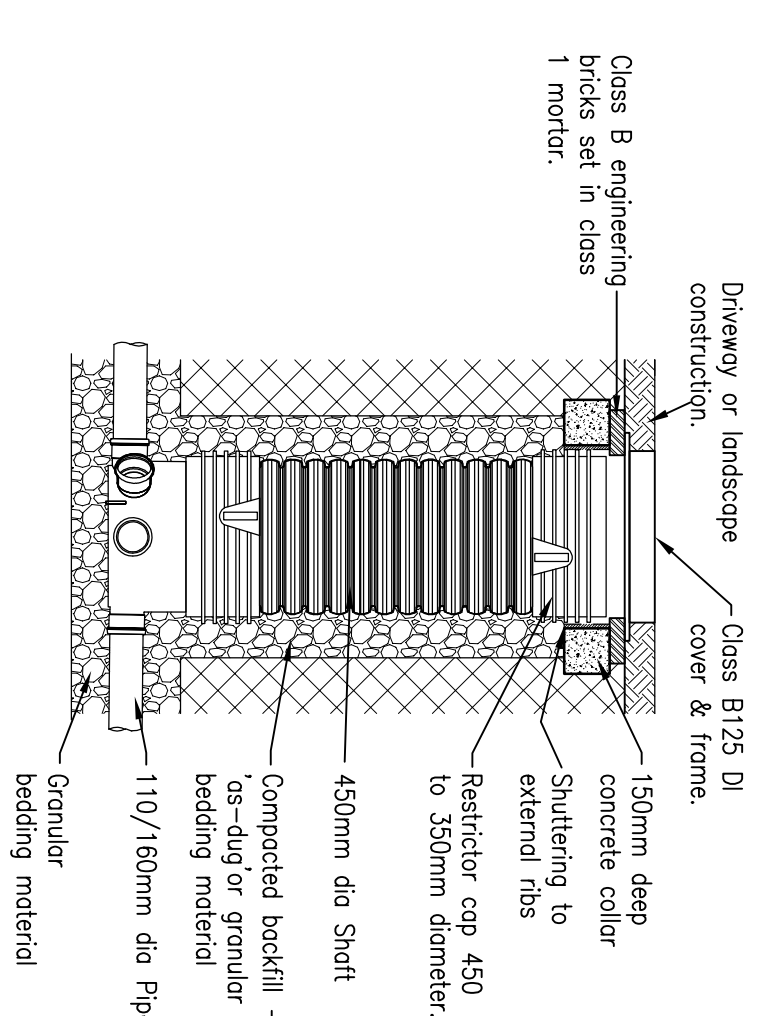
Precast concrete to BS 5911:Part 2 and BS 8301 Kitemarked, up to 1.0m deep

Polypropylene Inspection Chambers to BS 7158:2001 Kitemarked, min, 450mm diameter up to 2.0m deep.

TYPE H DEMARCATION CHAMBER DETAILS

Depth to soffit 1.2m to 2.0m

DETAILS SHOWN ARE BASED ON WAIN 450 RANGE



TYPE B MATERIAL

In Public Highways and other hardstanding areas as may be noted on the scheme drawings, the material referred to as Type B is to be D.0.1 type 1 granular material to clause 803 of the Specification for Highway Works, subject to the approval of the adopting highway authority.

Elsewhere, Type B selected material, whether imported or locally excavated, shall consist of uniform, readily compactable material, free from vegetable matter, building rubbish, frozen material and material susceptible to spontaneous combustion. Clay with a Liquid Limit greater than 80 and/or a Plastic Limit greater than 55 is to be excluded. Clay lumps and stones retained on 75 and 37 sieves respectively and all material with an excessively high moisture content to be excluded.

Information within this drawing is not necessarily produced to scale. Always use figured dimensions and co-ordinates - if in doubt, ask.

NOTES

- All pipes shall be either:
 - A - Verified clay to BS EN 295 with a minimum crushing strength as follows:
 - 300 dia - 40 kN/m
 - 375 dia - 50 kN/m
 - 450 dia - 72 kN/m
 - B - PVC certified to MS 4-35-01 & be en 13476
 - C - Class 120 concrete to BS 5911-1:2002/EN 1916.
- All pipes should always connect with a minimum crushing strength as follows:
 - A - Verified clay to BS EN 295 with a minimum crushing strength as follows:
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