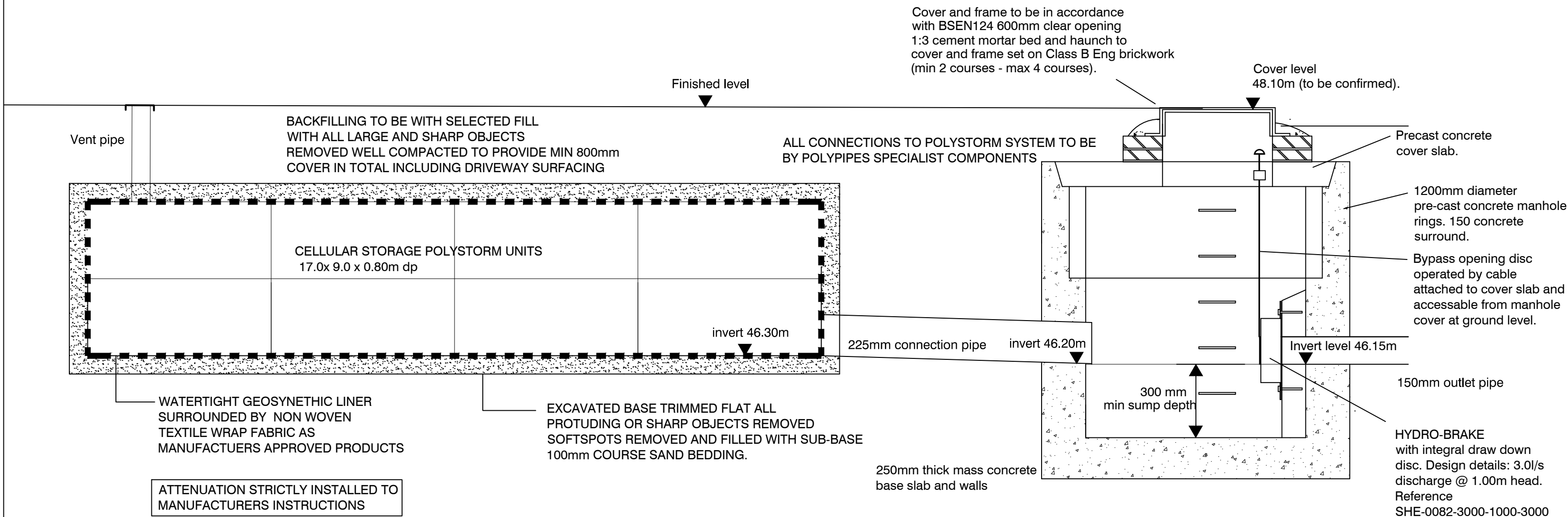
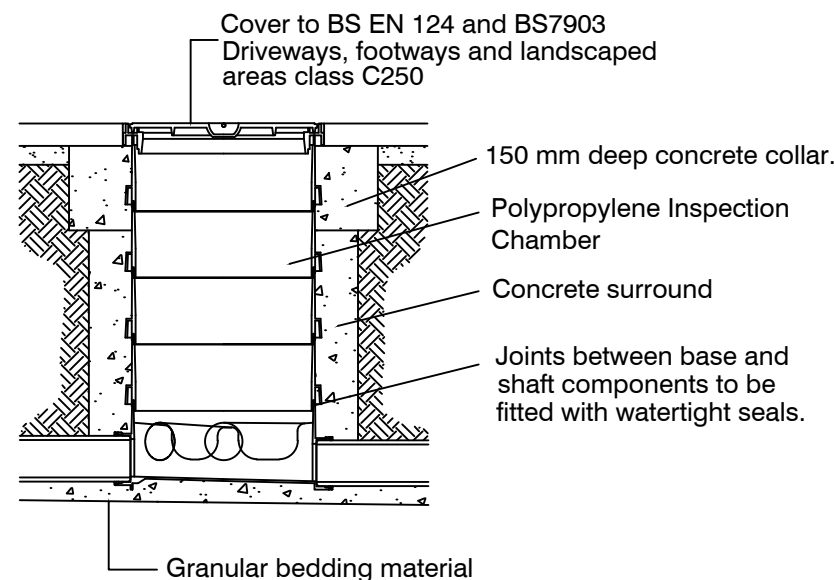




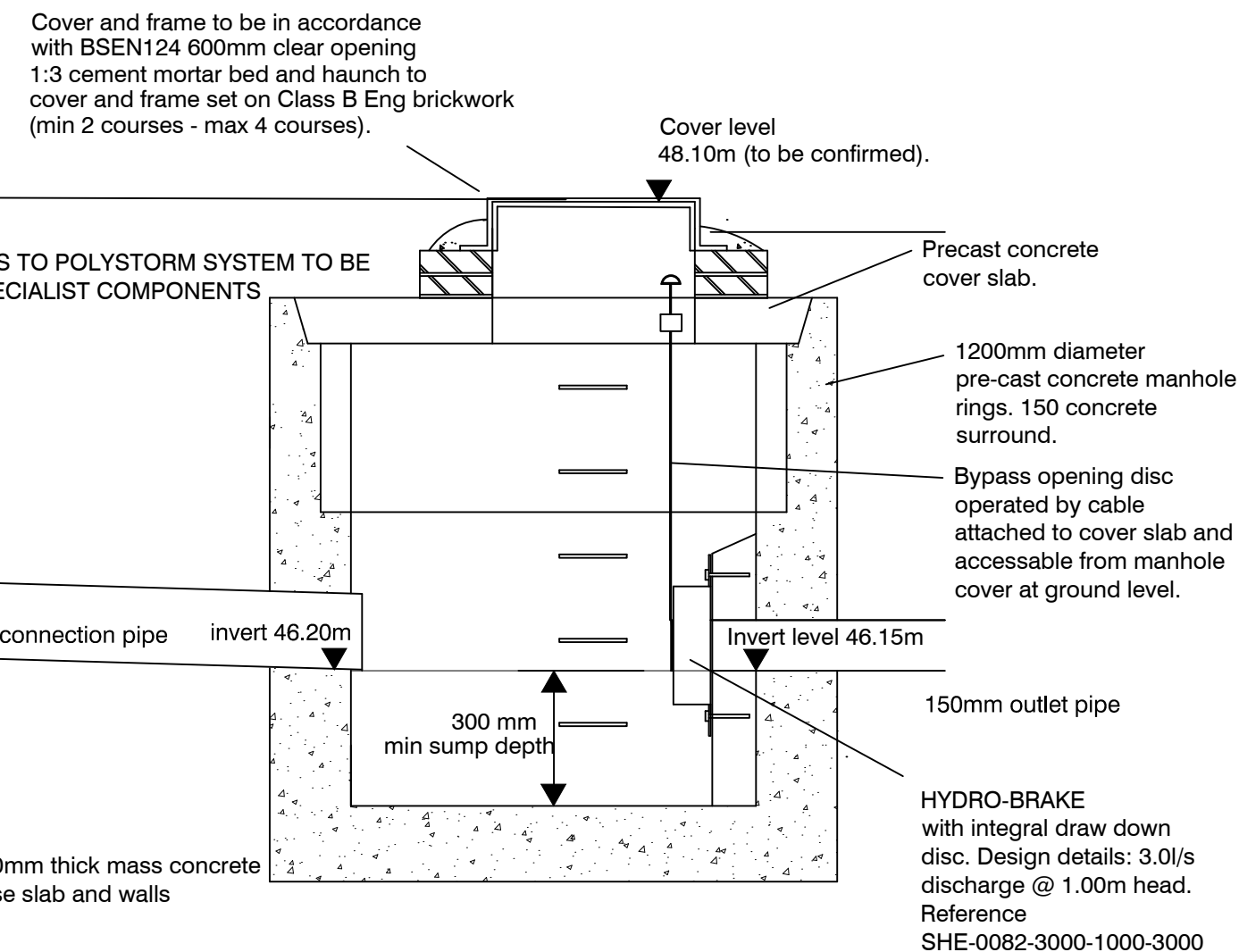
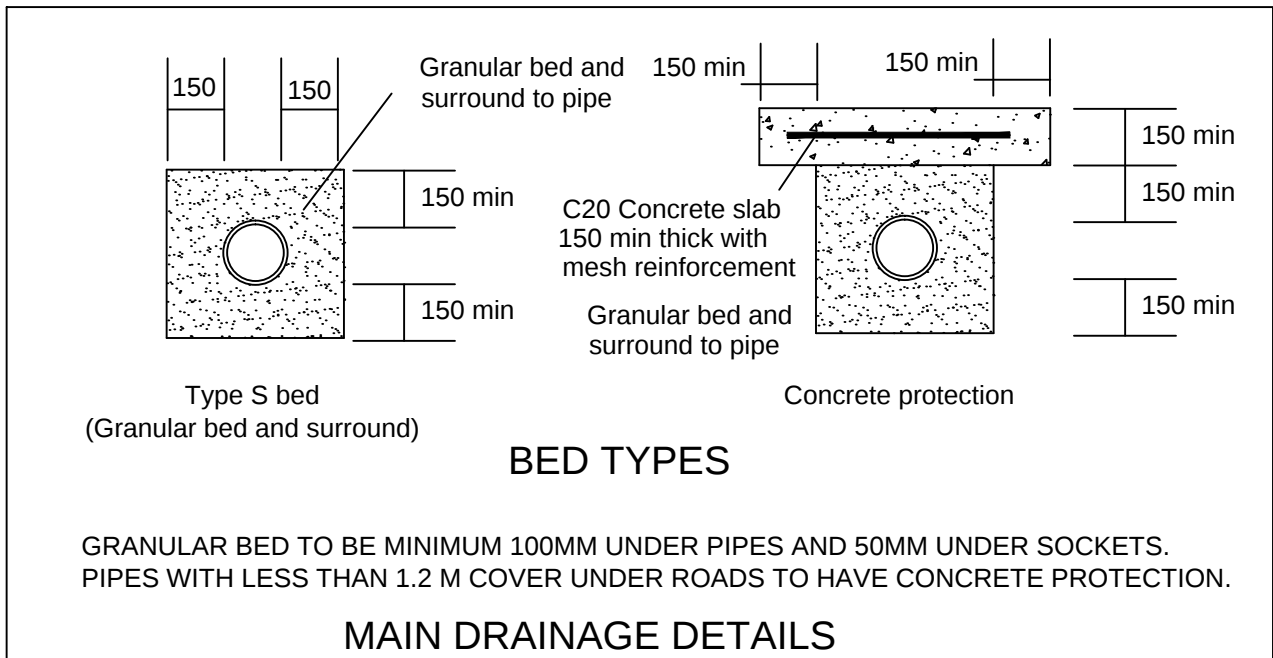
ATTENUATION - TYPICAL CROSS SECTION



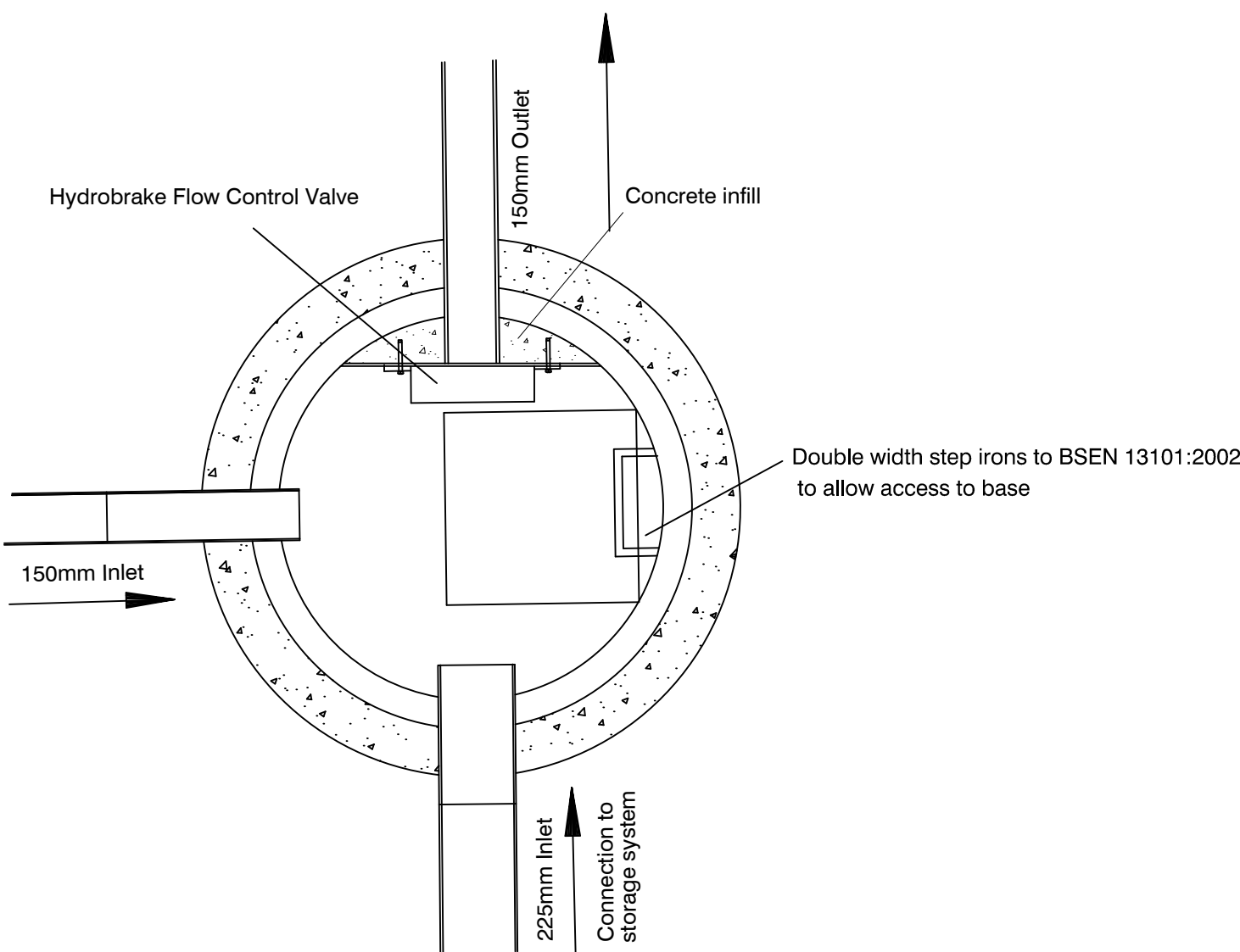
TYPICAL CHAMBER DETAIL (PPIC)
(Maximum depth up to 2m)

SUITABLE GRAVITY DRAINAGE PIPES
VITRIFIED CLAY TO BS EN 295
uPVC TO BS4660:2000 & BS EN 1401-1

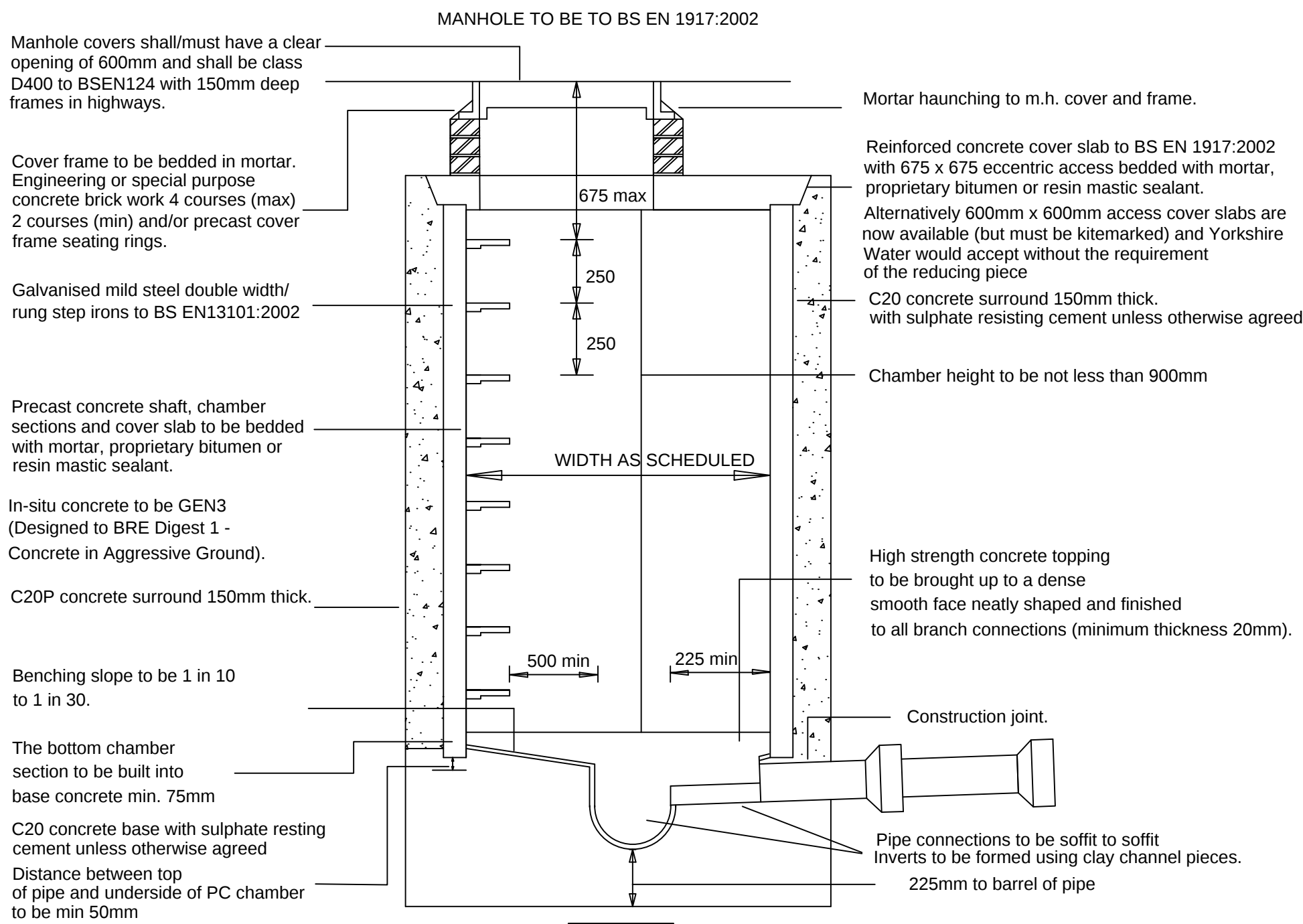
PRODUCT NAME	DIAMETER (mm)	MANUFACTURER	MATERIAL
SUPERSLEEVE	100 AND 150 ID	HEPWORTH	VITRIFIED CLAY
SUPERSEAL	100 AND150 ID	HEPWORTH	VITRIFIED CLAY
DENSELEAVE	100 AND 150 ID	NAYLOR	VITRIFIED CLAY
DENSEAL	100 AND 150 ID	NAYLOR	VITRIFIED CLAY
ULTRADRAIN	110 AND 160 OD	UPONOR	UPVC
PLASTIDRAIN	100 AND 160 OD	HEPWORTH	UPVC
OSMA DRAIN	110 AND 160OD	WAVIN	UPVC
SOLID WALL	110 AND160 OD	MARLEY	UPVC
UNDERGROUND DRAIN	110 AND 160 OD	POLYPIPE	UPVC



CONTROL CHAMBER - SECTION

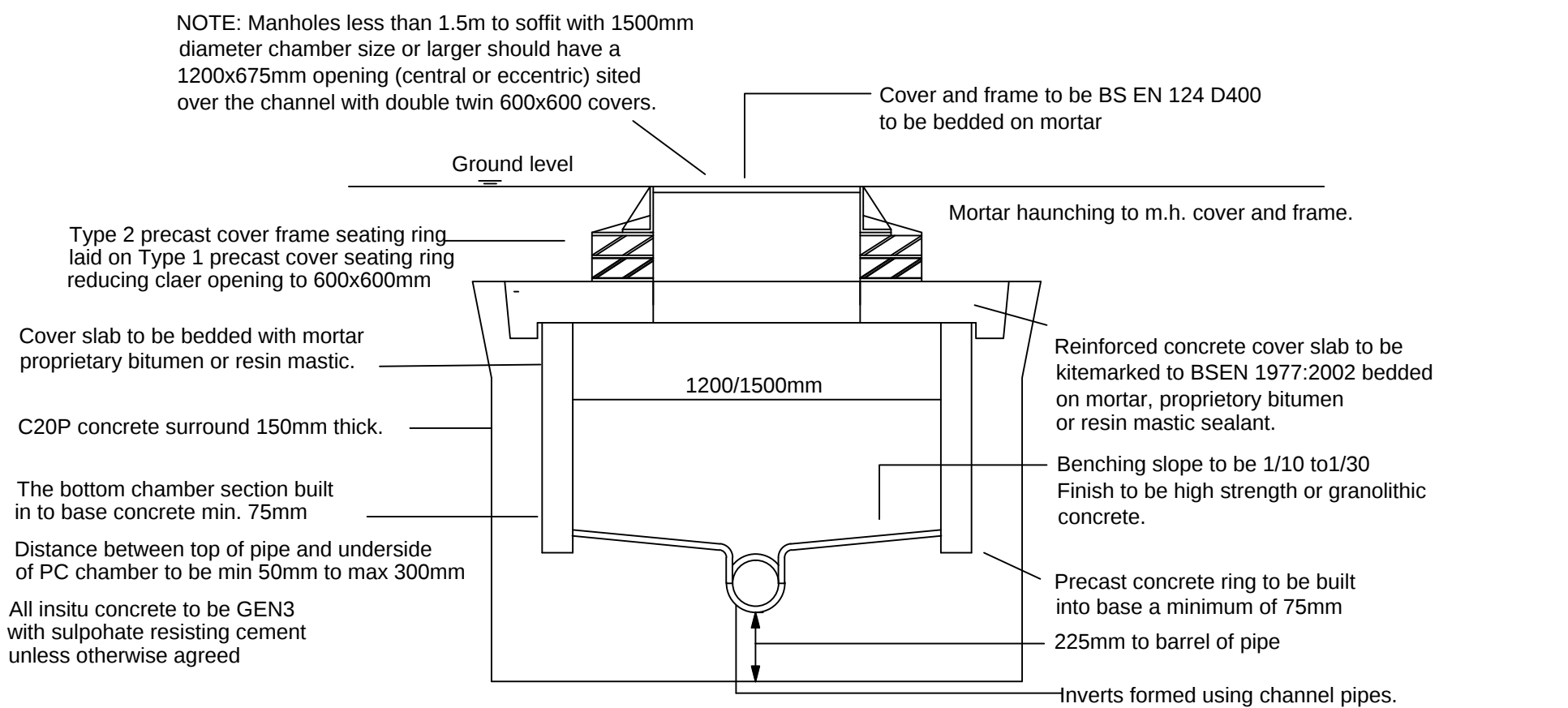


CONTROL CHAMBER - PLAN



TYPICAL TYPE B MANHOLE DETAIL

Depth from cover level to soffit of pipe 1.5 - 3m max.



SECTION THROUGH MANHOLE
TYPICAL TYPE B1/E MANHOLE DETAIL

Depth to soffit less than 1.5m

NOTES

- The invert level of the public sewers should be determined prior to drainage works starting on site and on site inverts confirmed as satisfactory for connections.
- Connection to public sewers requires the approval of Yorkshire Water.
- Work within the highway requires the consent of the highway authority - Barnsley Council.
- A linear drain is required across the southern access at the highway boundary to prevent water entering the highway.
- The following safety hazards remain after design and should be considered during construction
 - The sewer connection(s) may be at depth.
 - The sewer connections are within a public highway.
 - Utilities are likely to exist in the:- footway/verge/highway/on site.

B	Inverts to attenuation system amended. Type B manhole added.	09/10/17
A	First issue.	14/09/17
REV	DETAILS	DATE

SCALE = 1:20 @ A1

HM
DESIGN

CHARTERED CIVIL ENGINEER

HM Design
10 The Green
York
YO26 5LR

07919 031289

Client
MCProperties(Buxton)Ltd

Drawing Title
DRAINAGE DETAILS

Site Address
BARROWFIELD ROAD/PHOENIX LANE
THURNSCOE

Drawn HM	Checked HM		
Drg.No. YH501/DD/3B	Date 26/09/2016		