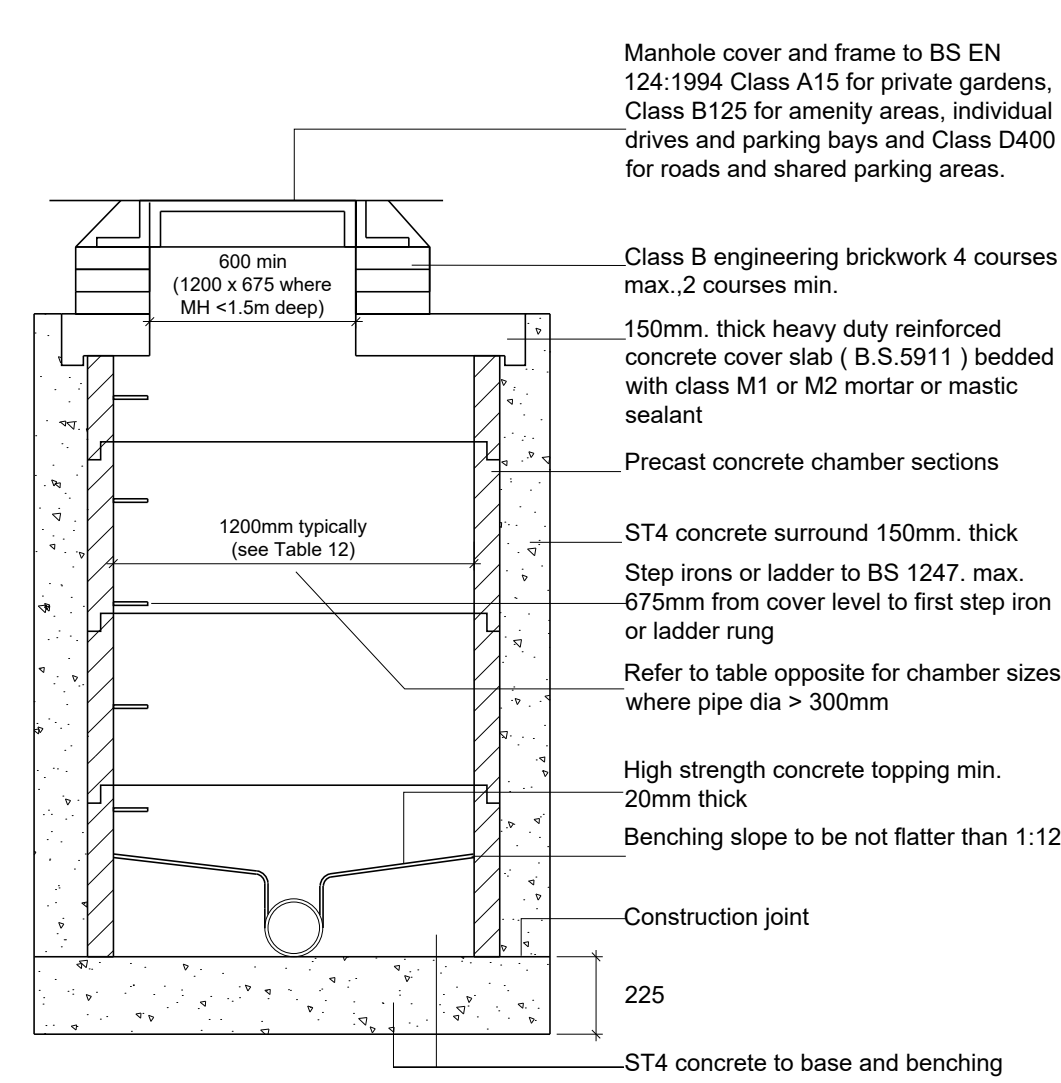
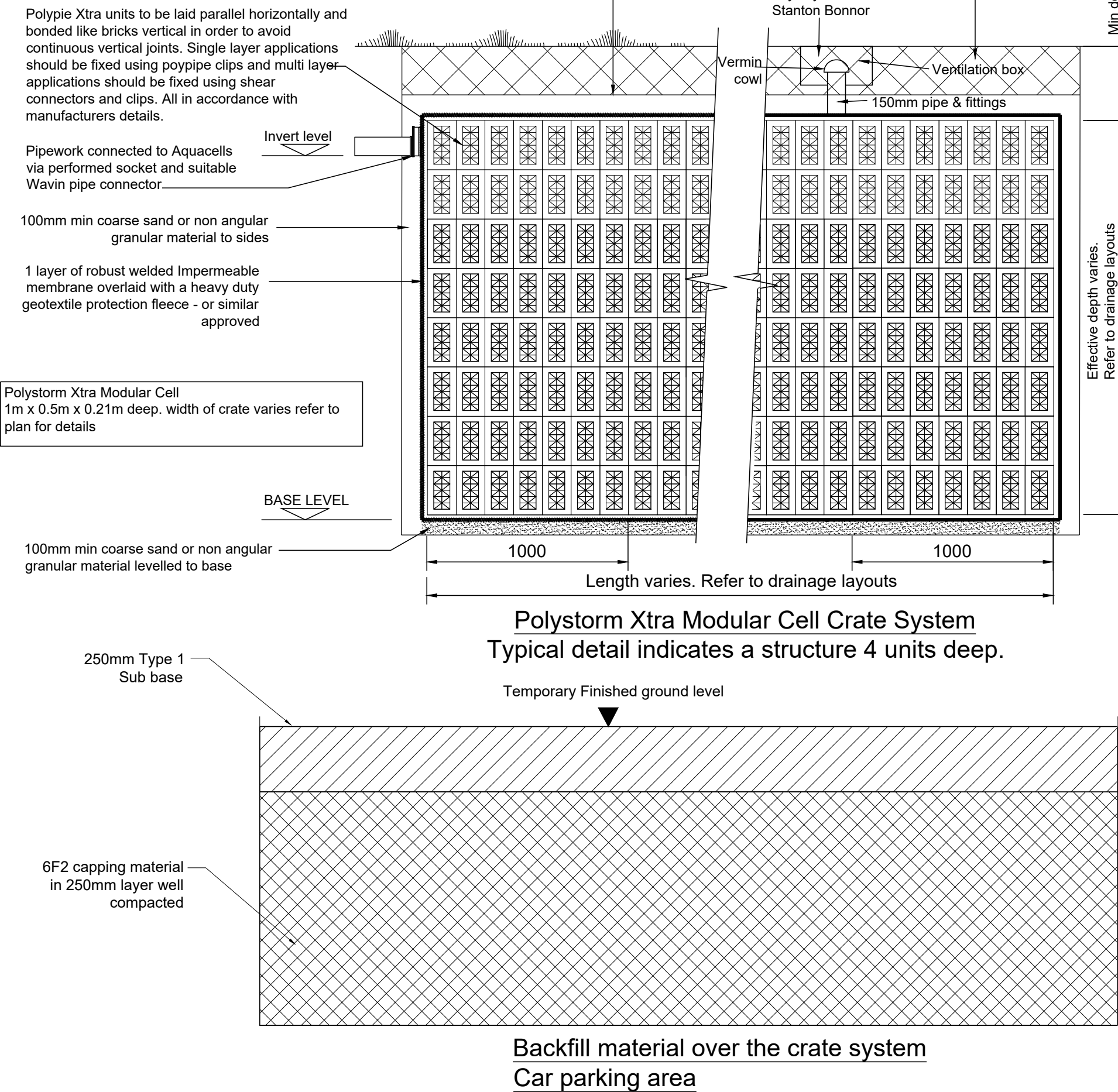
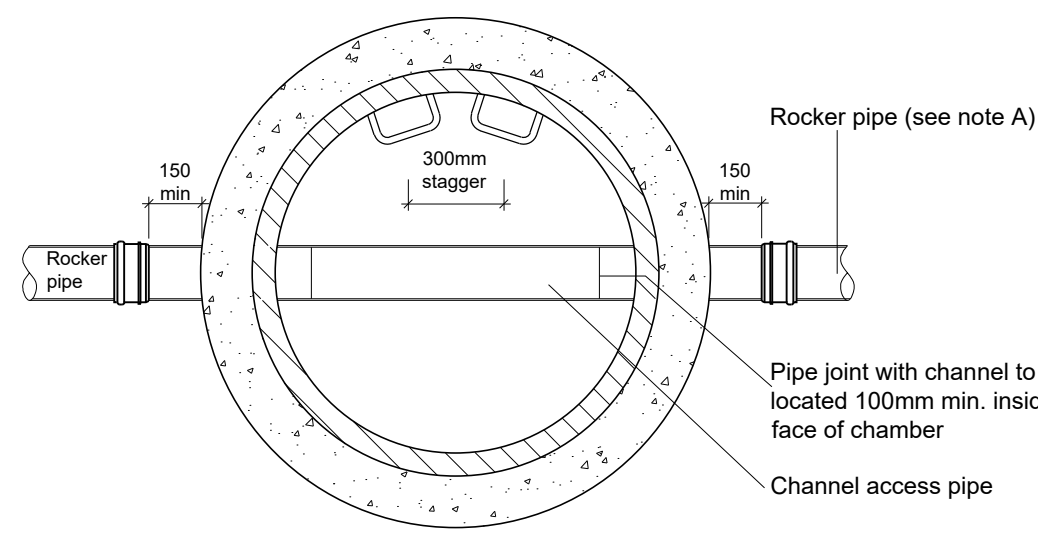


TABLE 11 MIN. DIMENSIONS FOR ACCESS FITTINGS AND INSPECTION CHAMBERS					
TYPE	DEPTH TO INVERT FROM COVER LEVEL (m)	INTERNAL SIZES		COVER SIZES	
		RECTANGULAR LENGTH AND WIDTH	CIRCULAR DIAMETER	RECTANGULAR LENGTH AND WIDTH	CIRCULAR DIAMETER
Rodding Eye		As drain but min 100			Same size as pipework ⁽¹⁾
Access Fittings, small	0.6 or less, except where situated in a chamber	150x100	150	150x100 ⁽¹⁾	Same size as access fitting
Access Fittings, large	225x100	225x100	225	225x100 ⁽¹⁾	
Inspection Chamber Shallow	0.6 or less	225x100	190 ⁽²⁾	-	190 ⁽¹⁾
Inspection Chamber Deep	1.2 or less >1.2 but <3.0	450x450 450x450	450	Min 430x430 max 300x300 ⁽³⁾	430 Access restricted to max 350 ⁽³⁾
Notes: (1) The clear opening may be reduced by 20mm in order to provide proper support for the cover and frame. (2) Drains upto 150mm. (3) A larger clear opening may be used in conjunction with a restricted access. The size is restricted for health and safety reasons to deter entry.					

TABLE 12 MINIMUM DIMENSIONS FOR MANHOLES					
TYPE	SIZE OF LARGEST PIPE (DN)	MIN. INTERNAL DIMENSIONS (1) RECTANGULAR LENGTH AND WIDTH	CIRCULAR DIAMETER	MIN. CLEAR OPENING SIZE (1) RECTANGULAR LENGTH AND WIDTH	CIRCULAR DIAMETER
MANHOLE <1.5m deep to soffit	<= 150 225 300 >300	750 x 675 (7) 1200 x 675 1200 x 750 1800 x (DN+450)	1000 (7) 1200 1200 The larger of 1800 or (DN+450)	750 x 675 (2) 1200 x 675 (2)	na (3)
>1.5m deep to soffit	<= 225 300 375-450 >450	1200 x 1000 1200 x 1075 1350 x 1225 1800 x (DN+775)	1200 1200 1200 The larger of 1800 or (DN+775)	600 x 600	600
MANHOLE SHAFT (4)	Steps (5) Ladder (5) Winch (6)	1050 x 800 1200 x 800 900 x 800	1050 1200 900	600 x 600 600 x 600 600 x 600	600
Notes: (1) Larger sizes may be required for manholes on bends or where there are junctions. (2) May be reduced to 600 by 600 where required by highway loading considerations, subject to a safe system of work being specified. (3) Not applicable due to working space needed. (4) Minimum height of chamber in shafted manhole 2m from benching to underside of reducing slab. (5) Min clear space between ladder or steps and the opposite face of the shaft should be approximately 900mm. (6) Winch only - no steps of ladders, permanent or removable. (7) The minimum size of any manhole serving a sewer (i.e. any drain serving more than one property) should be 1200mm x 675mm rectangular or 1200mm diameter.					

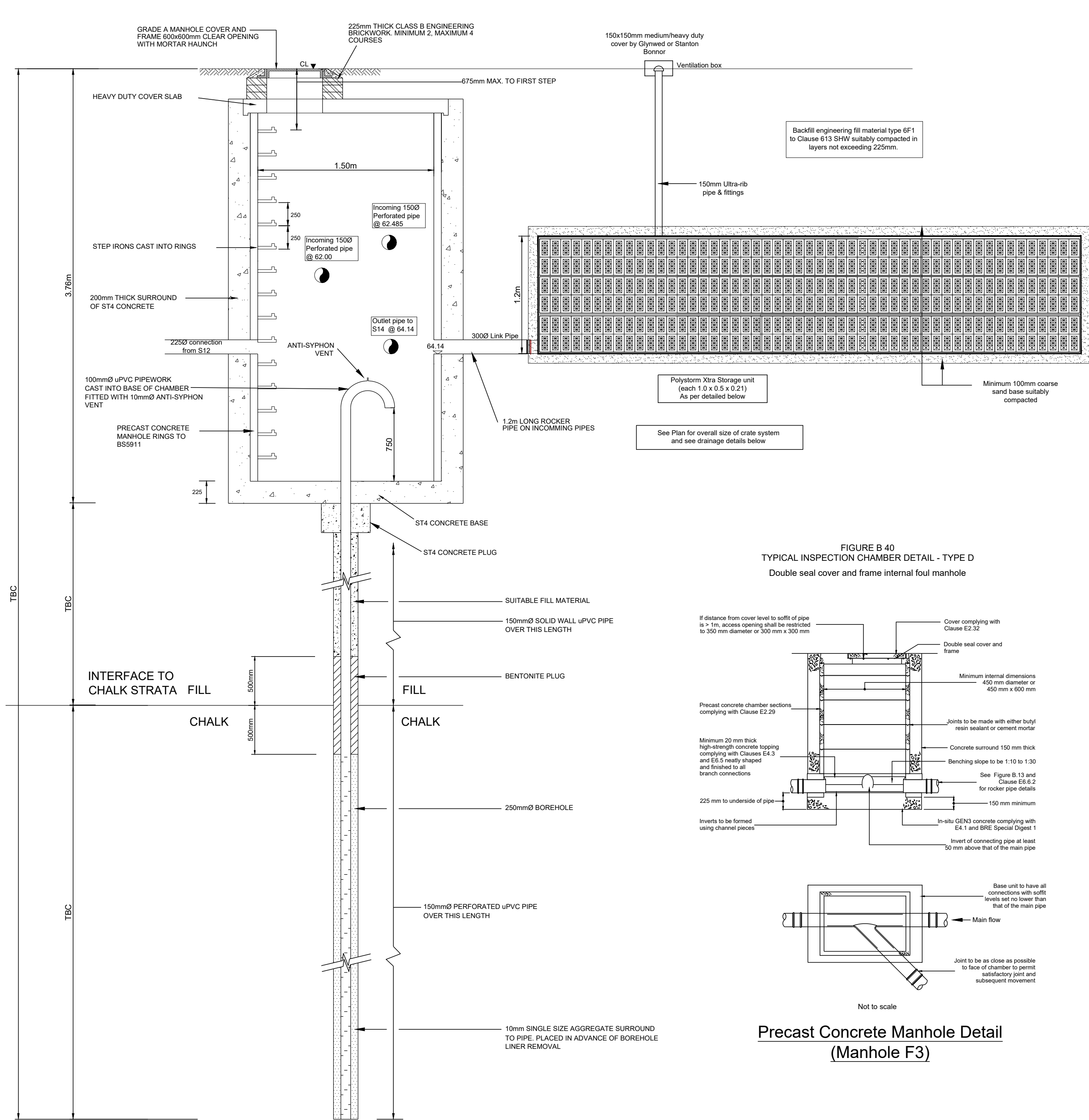


Typical Precast Concrete Manhole Detail

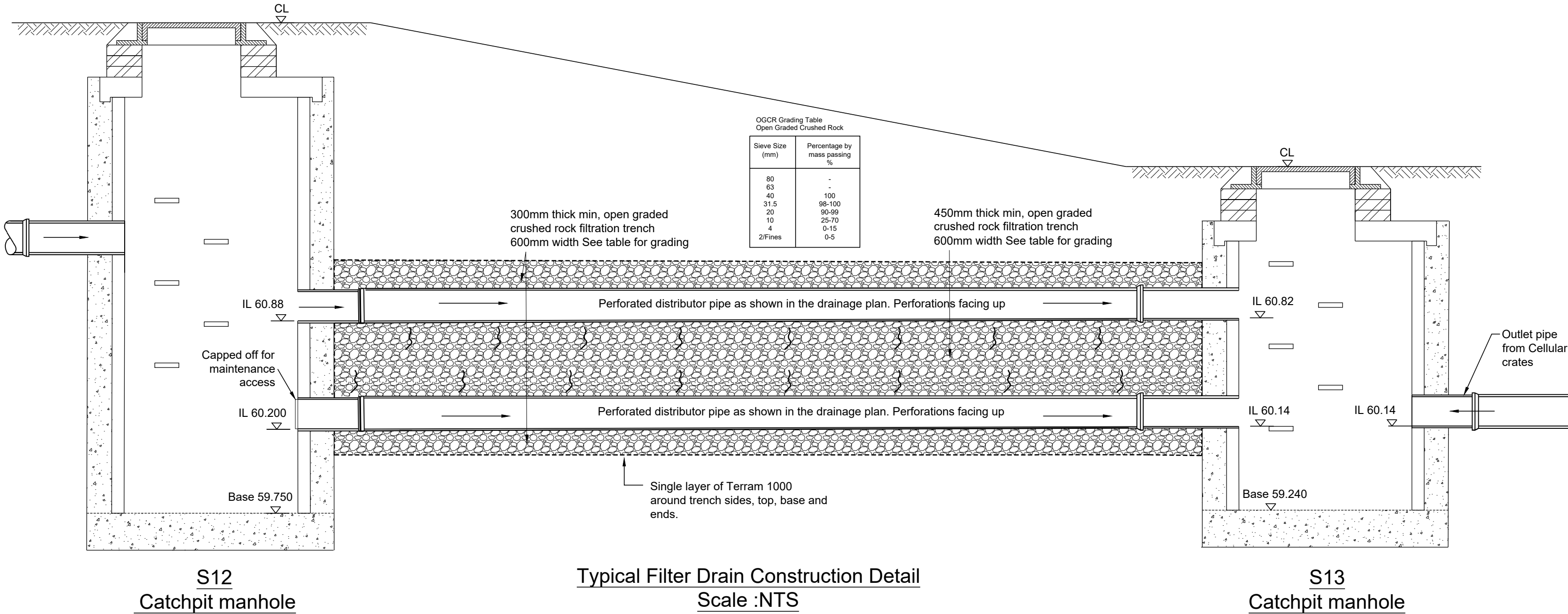


Non-trafficked loading - as dug backfill free from stones or deleterious material

Trafficked loading - 250mm Type 1 and remaining layer must be capped over the tank and under formation of trafficked areas.



BORE HOLE SOAKAWAY S13



PRELIMINARY ISSUE

Notes

- This drawing is to be read in conjunction with the Drainage Layout.
- All private drainage works to be constructed in accordance with the latest edition of the Building Regulations part H (Drainage & Waste Disposal) and to BSEN752.
- Soakaway's to be constructed a minimum of 5.0m and deep borehole soakaway 10.0m from any proposed buildings or existing structures.
- IMPORTANT NOTE:**
The actual depth of the soakaway boreholes are to be determined following on site investigation works.

The level of the bentonite seal shall be advised by an appropriately qualified geotechnical engineer.

P4	Stage 4 Issue revised according to client's comments	23.01.25
P3	Stage 4 Issue	20.01.25
P2	Filter drain added between S9-S10	08.11.24
P1	Preliminary Issue for stage 3	22.11.23

Rev Description Date

Status:

Stage 4

Scale :	NTS		
Date :	Aug 2023	Checked:	Approved:
Drawn :	IDL	BM	PT

Title :

Drainage Details Sheet 1

Project :

Baldock Street, Royston

Drg. No:	Rev:	File Ref:	1177-07-DE
LSE-2904-04-DE-210	P4	Plot Ref:	LSE-2904-04-DE-210

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