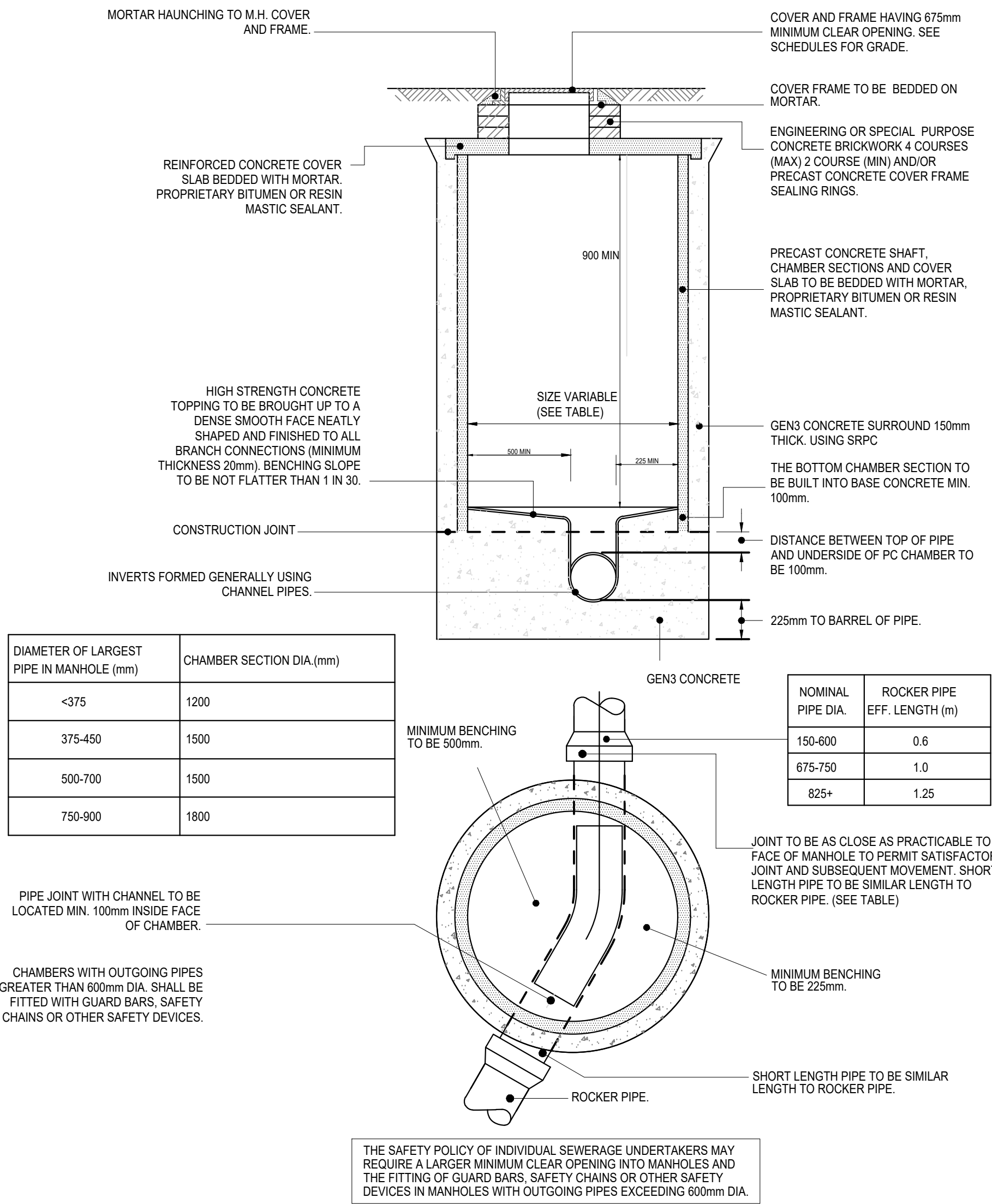
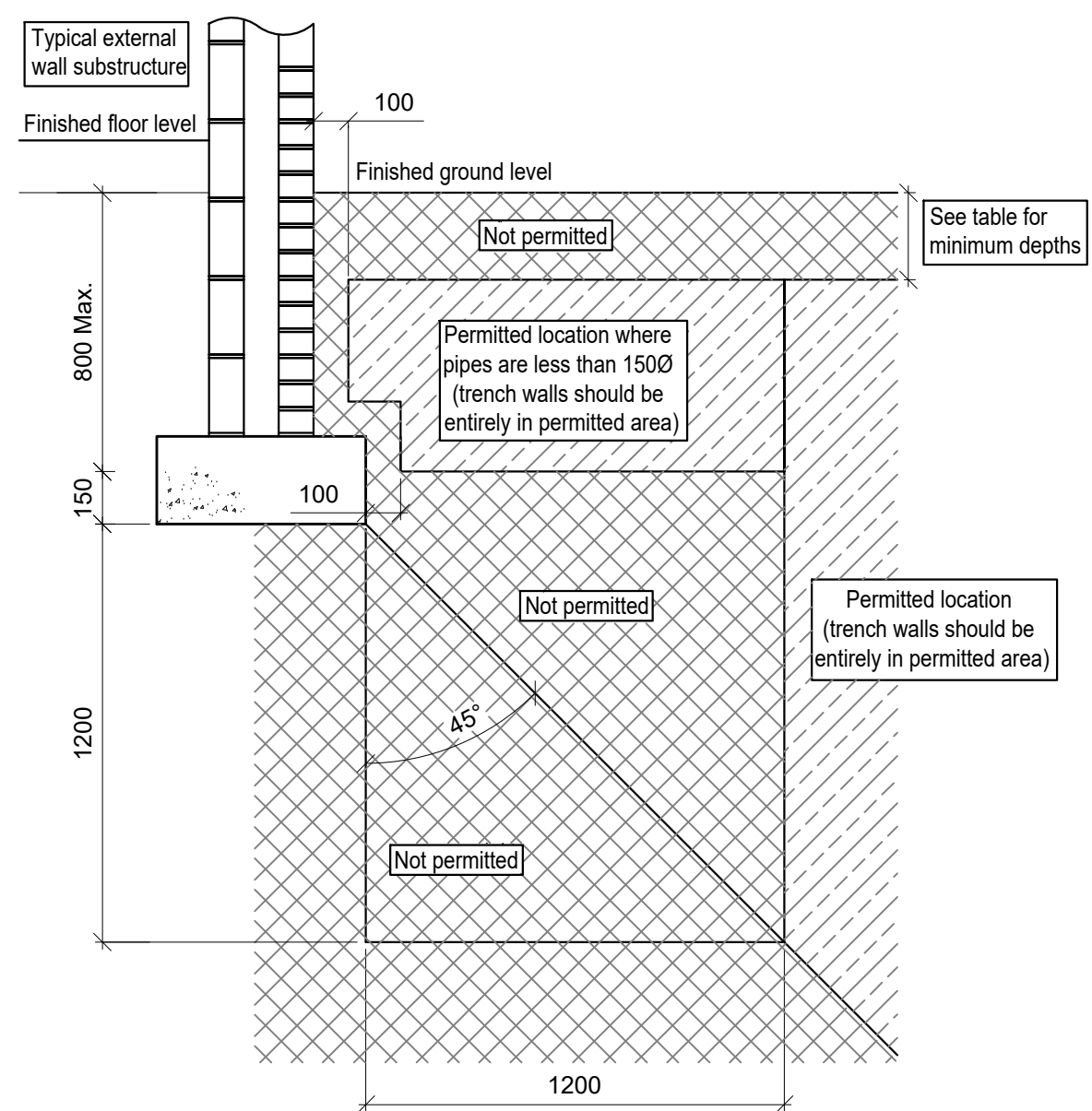


File Location: K:\33000-133647-DROVE LANE YAPTON\GRAPH\INFRASTRUCTURE\DWG\1-4205 & 4206 DRAINAGE CONSTRUCTION DETAILS.DWG

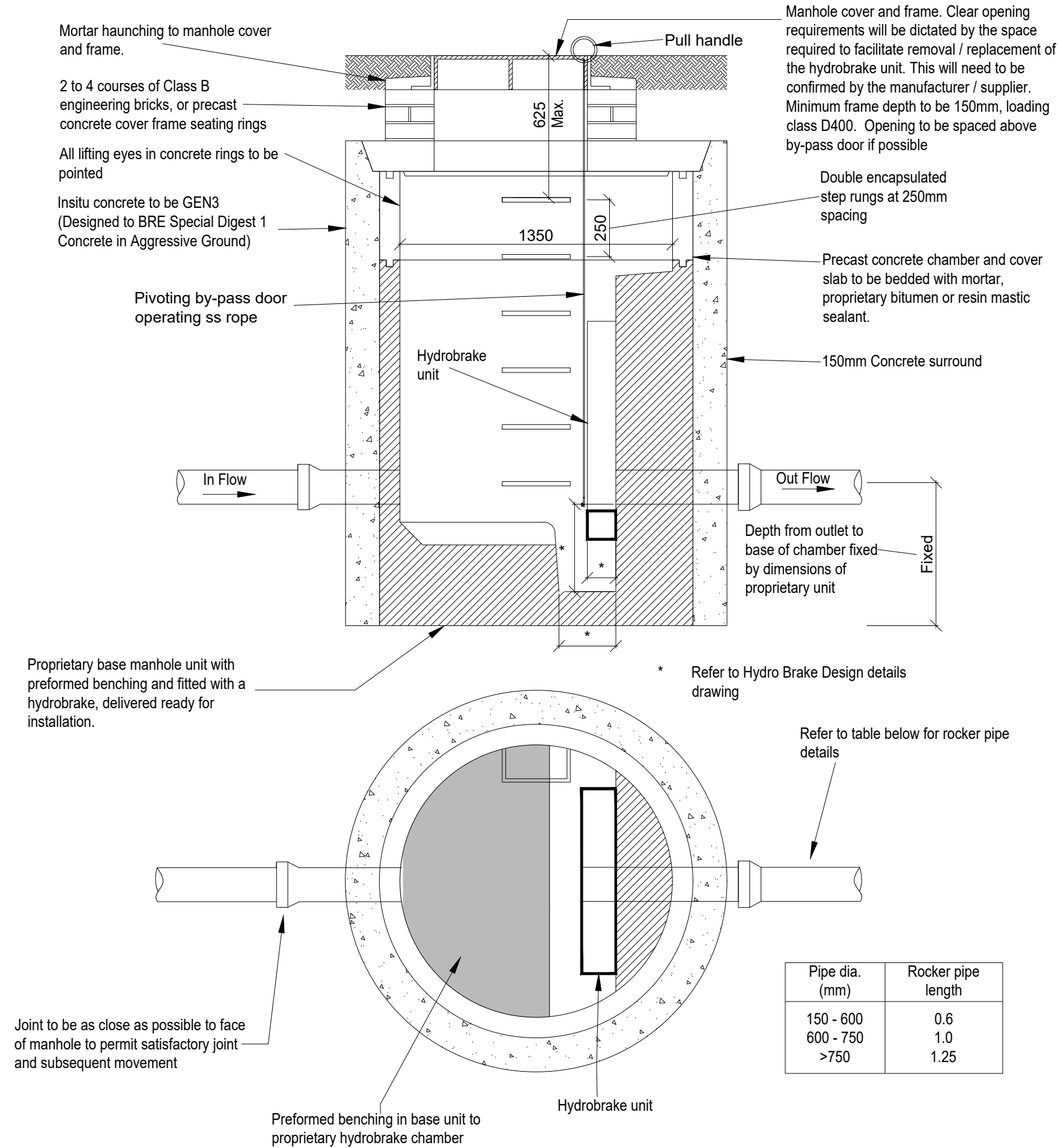


TYPICAL MANHOLE DETAIL - TYPE B
(MAX DEPTH FROM GROUND LEVEL TO SOFFIT OF PIPE 1.35 - 3.0m)
(NTS)



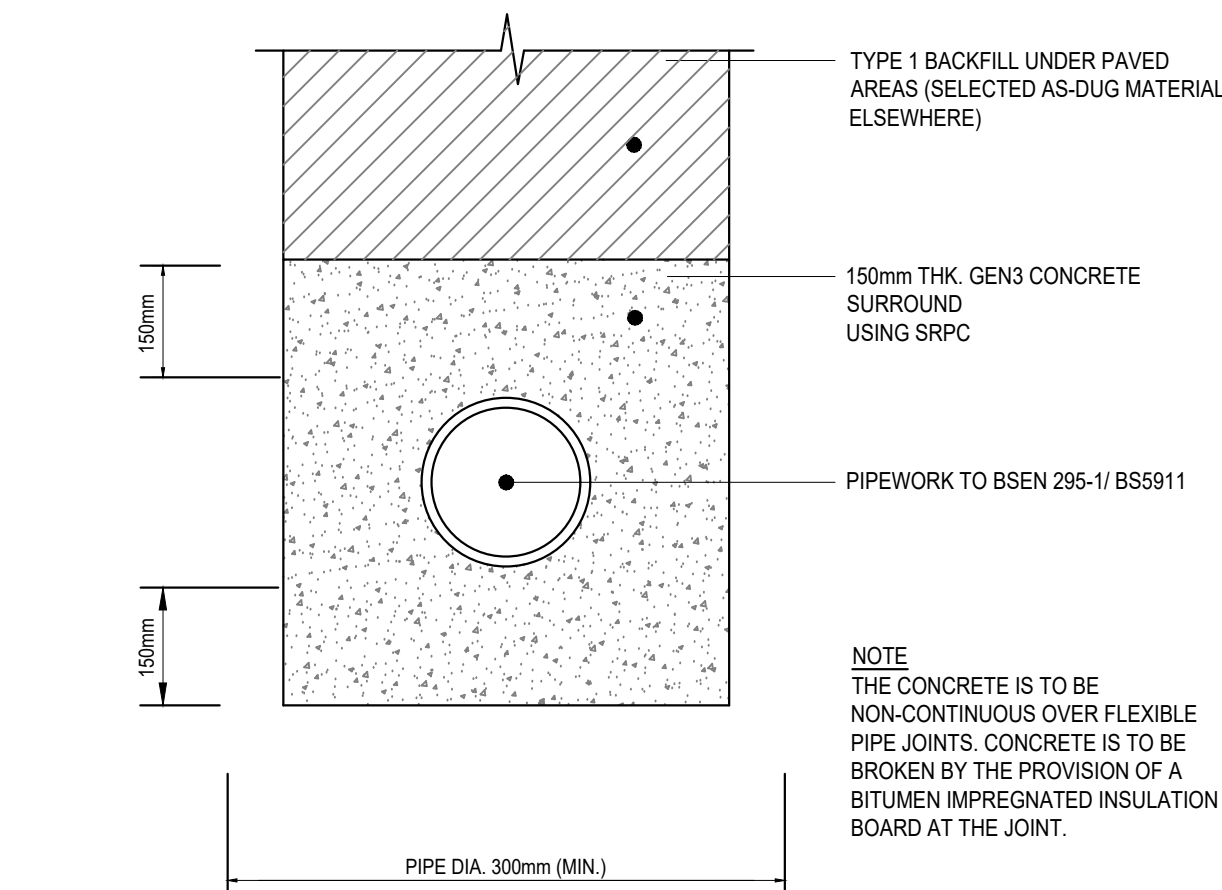
PERMITTED LOCATION OF SEWERS AND
LATERAL DRAINS IN PROXIMITY TO BUILDINGS
(NTS)

NOMINAL MAXIMUM AGGREGATE SIZE (mm) B.S. 882 GRADING.		
PIPE BORE (mm)	AGGREGATE	BEDDING CLASS S B
100	SINGLE SIZE GRADED	10
150	SINGLE SIZE GRADED	10 or 14
225	SINGLE SIZE GRADED	10, 14 or 20
300	SINGLE SIZE GRADED	14 to 5 or 20 to 5
400	SINGLE SIZE GRADED	14 or 20
450		14 to 5 or 20 to 5
500		14 to 5 or 20 to 5
600	SINGLE SIZE GRADED	14, 20 or 40
700		14 to 5 or 20 to 5
800		40 to 5
900		40 to 5

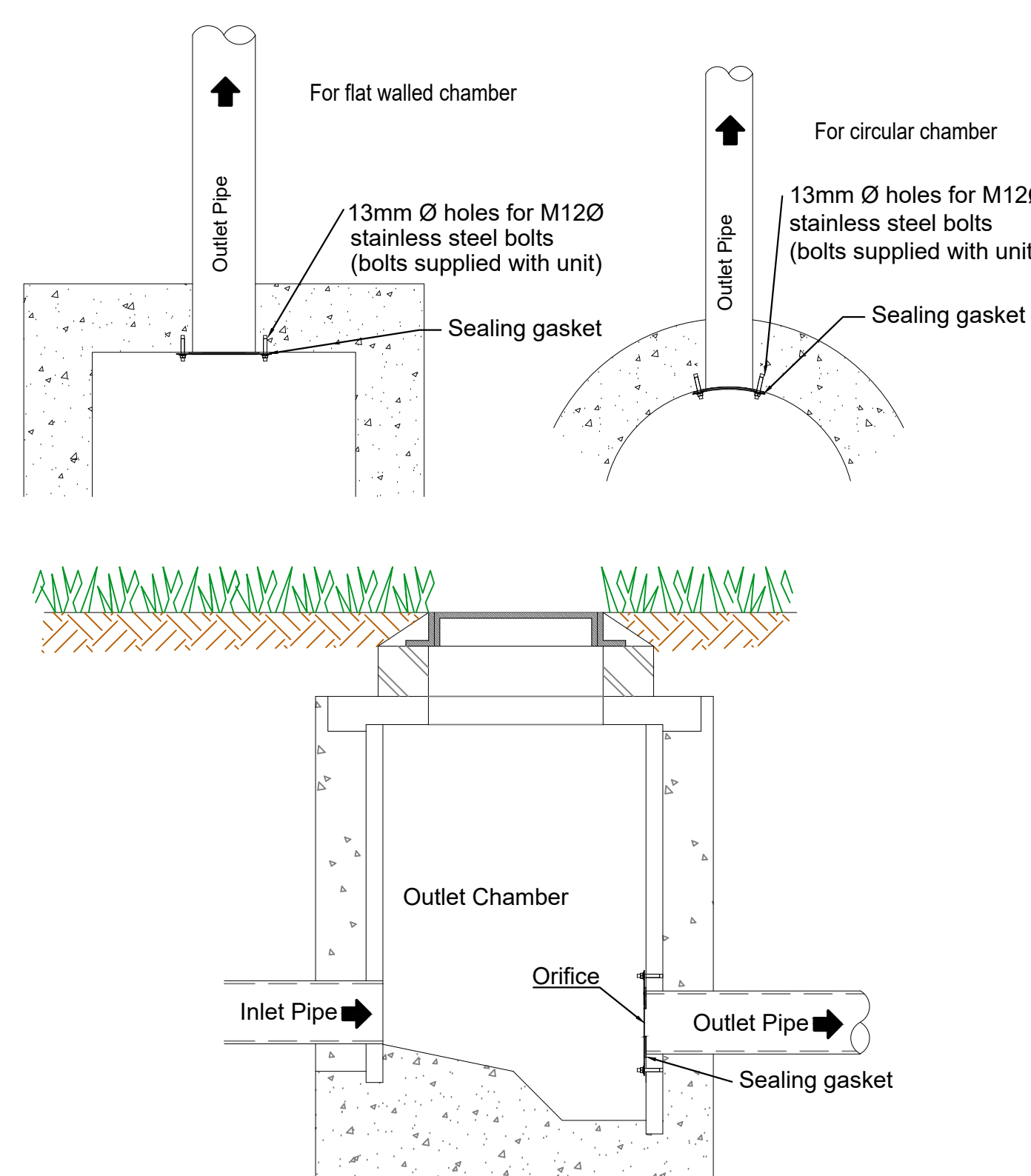


Hydrobrake Manholes			
Manhole	HB Reference	Flow Rate (l/s)	Invert Level (m)
S22	MD-SHE-0045-1000-1200-1000	1 l/s	5.620
S32	MD-SHE-0103-5000-1200-5000	5 l/s	5.150
S48	MD-SHE-0136-9000-1200-9000	9 l/s	4.850
S127	MD-SHE-0143-1000-1200-1000	10 l/s	4.640
S136	MD-SHE-0125-7500-1200-7500	7.5 l/s	4.460
S251	MD-SHE-0195-1820-0600-1820	18.2 l/s	3.650

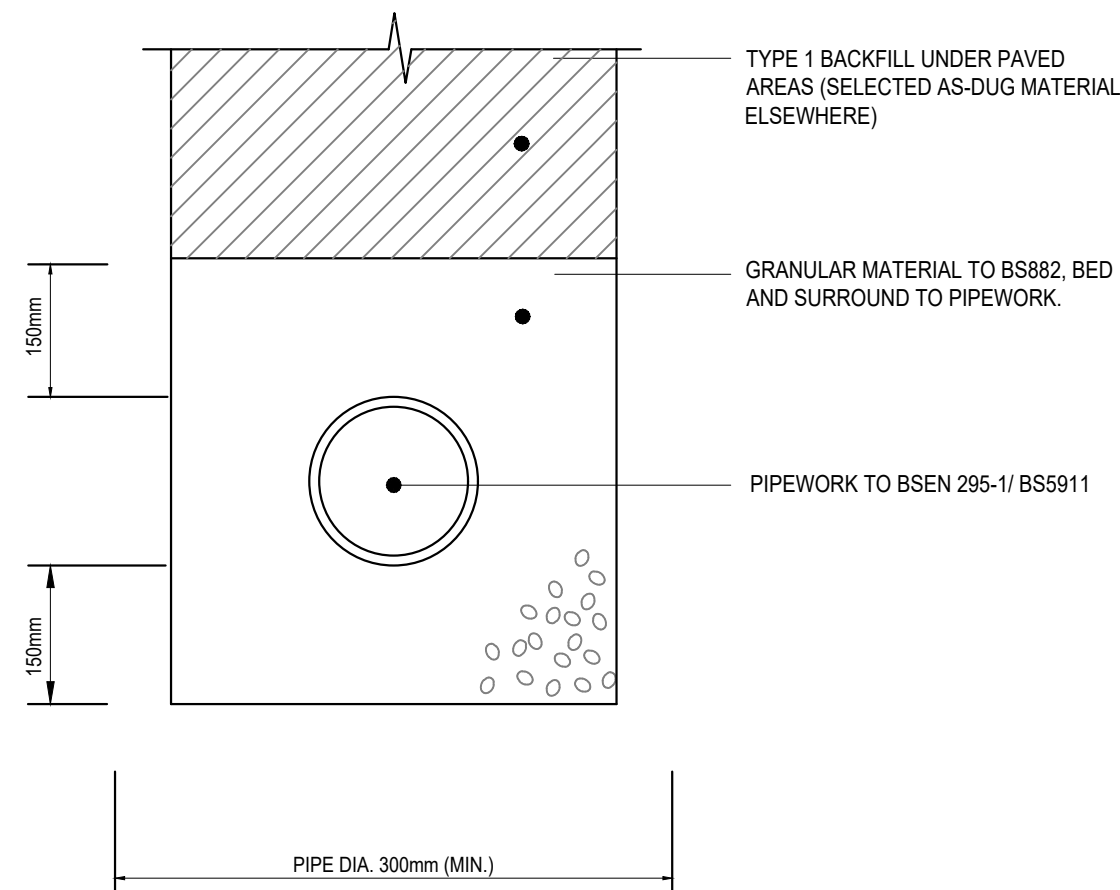
HYDROBRAKE CHAMBER (TYPICAL DETAIL)
(to utilise a proprietary base unit with hydrobrake pre-installed)



CLASS Z PIPE BEDDING DETAIL
FOR PIPES LAID LESS THAN 1.2m IN VEHICULAR AREAS LESS THAN 300mm IN SOFT AREAS AND FOR PIPES LAID UNDER BUILDINGS
(NTS)



ORIFICE PLATE CHAMBER (TYPICAL DETAIL)



CLASS S PIPE BEDDING DETAIL
FOR PIPES WITH MORE THAN 1.2m COVER IN VEHICULAR AREAS (OR MORE THAN 300mm COVER IN SOFT AREAS)
(NTS)

CIVIL / STRUCTURAL DESIGN RISK MANAGEMENT

Abnormal or unusual residual risks associated with the design outcomes shown on this drawing are:-

RSK LDE LTD has followed its Design Risk Management process for Hazard Elimination and Risk reduction in developing the designs shown on this drawing. Abnormal or unusual residual risks may be shown above where it is considered that such risk may not normally be expected by competent persons engaged on work of this nature or type.

Notes:

General

- This drawing is to be read in conjunction with all relevant Engineers drawings and specifications.
- For Site Drainage Layout see Drawing No. PLN-1-4080-4084.
- All adoptable drainage works shall be constructed in accordance with the requirements of the following documentation:
 - Sewers for Adoption 7th Edition
 - Civil Engineering Specification for the Water Industry - 7th Edition
- All chamber covers and frames shall be heavy duty ductile iron, kitemarked and compliant with BS EN 124. All covers used in carriageways shall be D400 classification.
- All precast concrete chamber rings, covers slabs and seating rings to conform with BS EN 1917 and BS 5911-3 and shall be installed in accordance with the manufacturer's recommendations and guidance.
- The high strength concrete topping as shown on this drawing shall be a granolithic concrete complying with the relevant provisions of BS 8204-2.
- All insitu concrete specified on this drawing shall be compliant with BS EN 206 and BS 8500.
- All drainage pipes used for the main drainage works shall be either:

Concrete to the relevant provisions of BS EN 1916 and BS5911-1, Structural wall thermoplastic to the relevant provisions of BS EN 13476.
- All pipe bedding and surround material shall comply with Water Industry Standard WIS 4-08-02, where processed granular materials are to be used.

DRAWING SUBJECT TO BOTH SECTION 38
AND SECTION 104 TECHNICAL APPROVAL

B	06.12.2021	Issued for Planning. Updated to LLFA comments	AM		
A	18.03.2021	Issued for Planning	AM		
Rev.	Date	Amendment	Drawn	Chkd.	Appd.

RSK

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Client

BARRATT
H O M E S
built around you

DAVID WILSON HOMES

Project Title

**DROVE LANE,
YAPTON**

Status

PLANNING

Drawing Title

**DRAINAGE CONSTRUCTION
DETAILS
(SHEET 1 OF 2)**

Drawn	Date	Checked	Date	Approved	Date
AM	17.03.2021	SM	17.03.2021	SM	17.03.2021

Scale	Orig Size	Dimensions
NTS	A1	Metres

Project No.	Drawing File
133647	PLN_1_4205 & 4206 Drainage Construction Details.dwg

Drawing No.	Rev.
PLN_1_4205	B