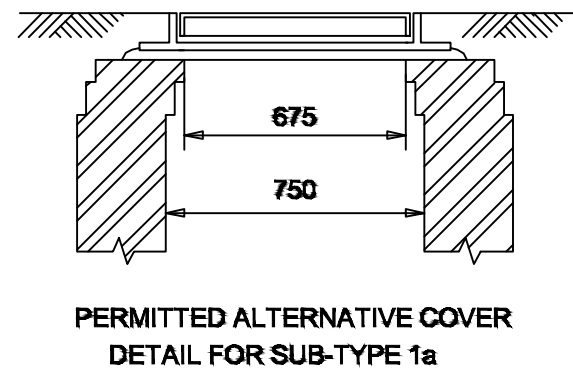
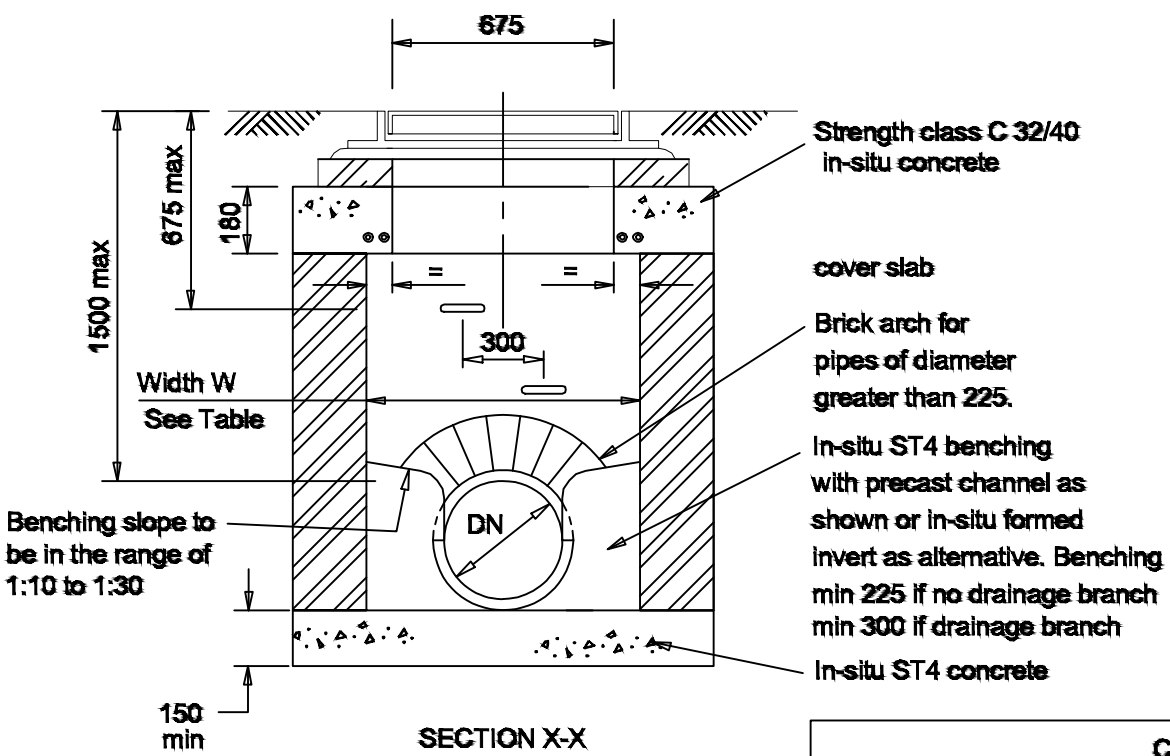
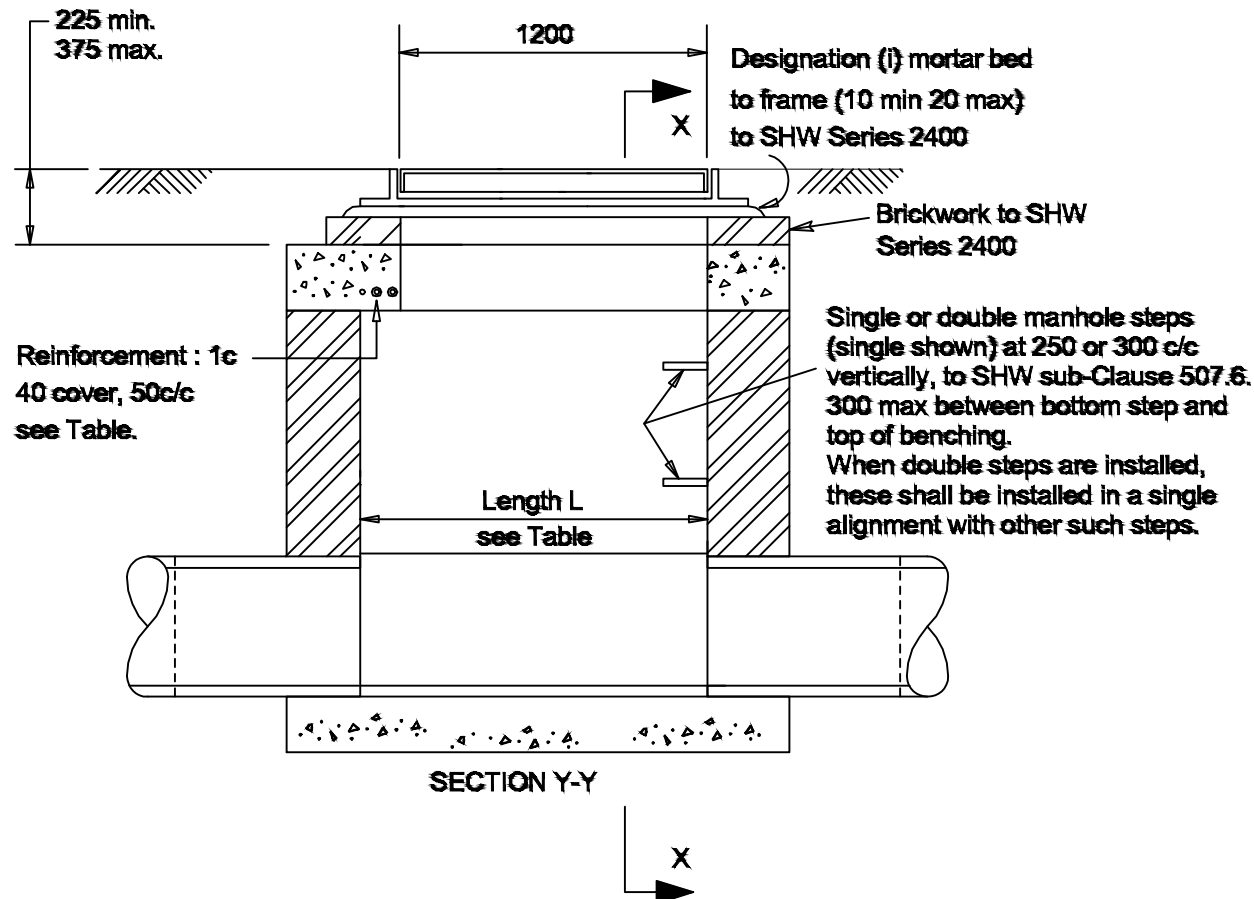
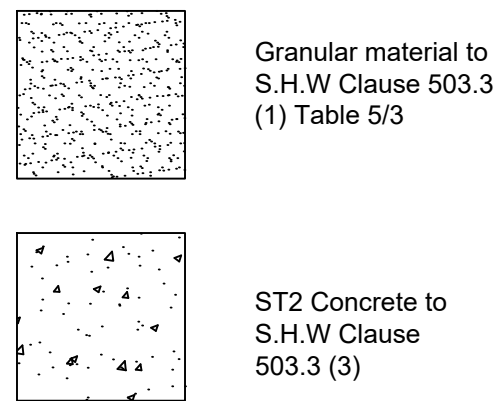


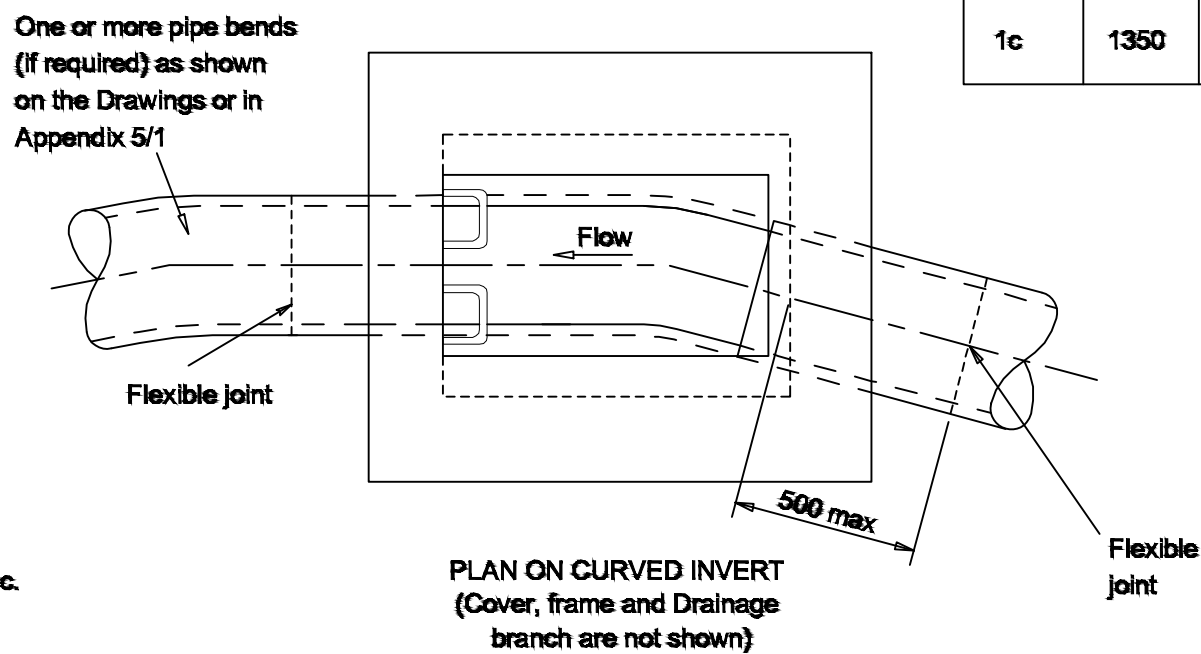
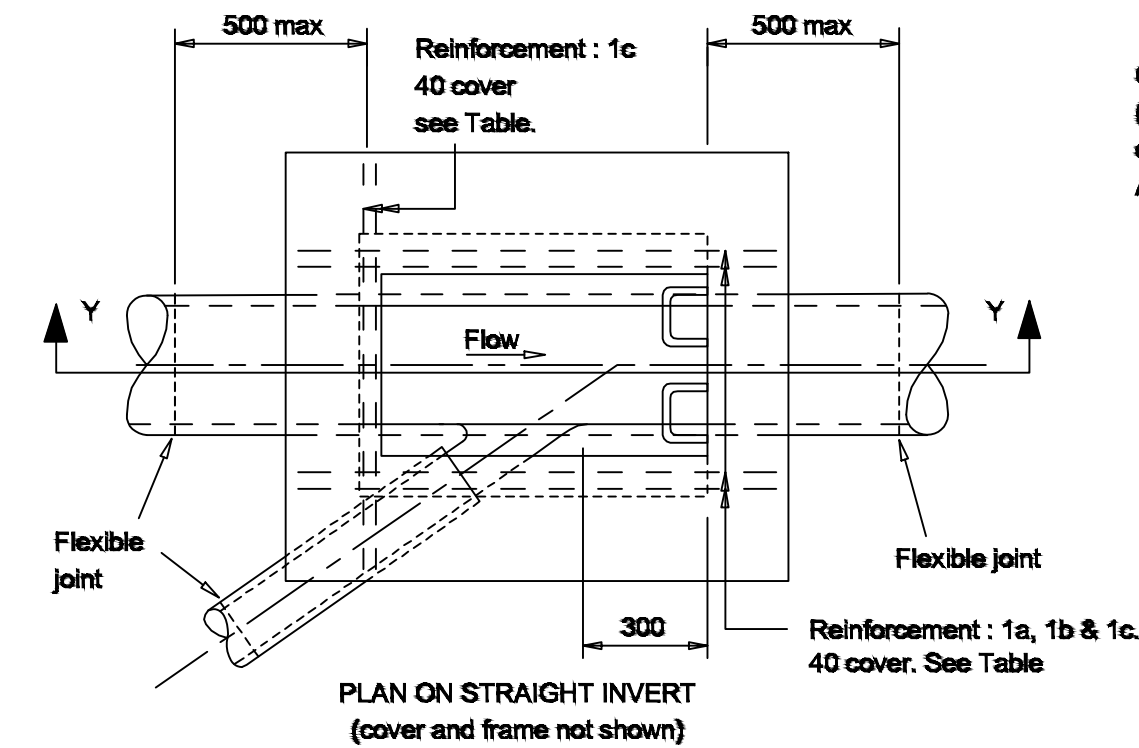
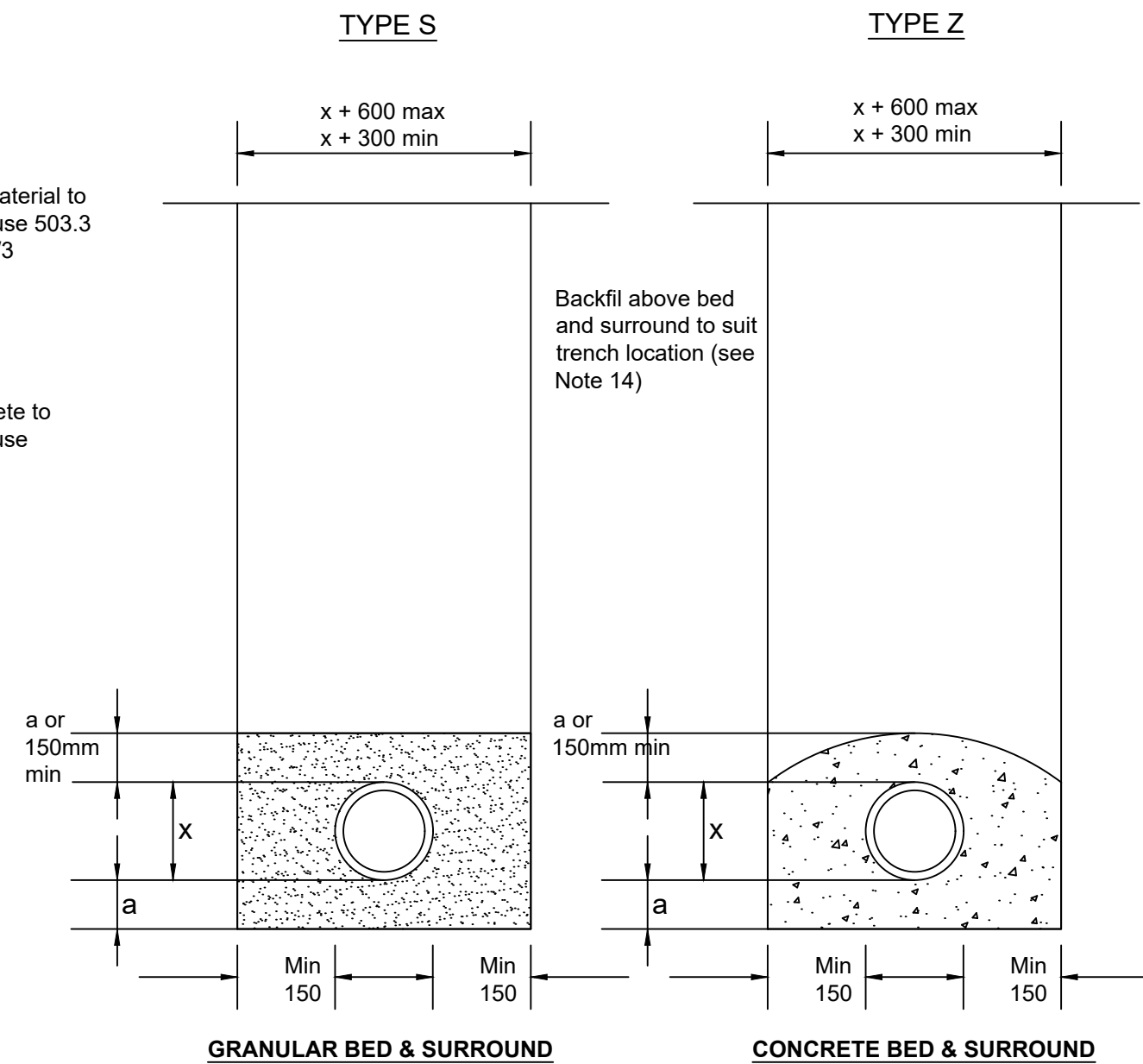


KEY



a = for sleeve jointed pipes, a minimum of 150mm or $\frac{1}{4}$ x whichever is the greater, for the socketed pipe, a minimum of 200mm or $\frac{1}{4}$ x, whichever is the greater under barrels and 150mm under sockets.

Type Z concrete shall be mix ST2 to cl. 2600, SHW. Backfilling shall not be carried out until concrete has cured.



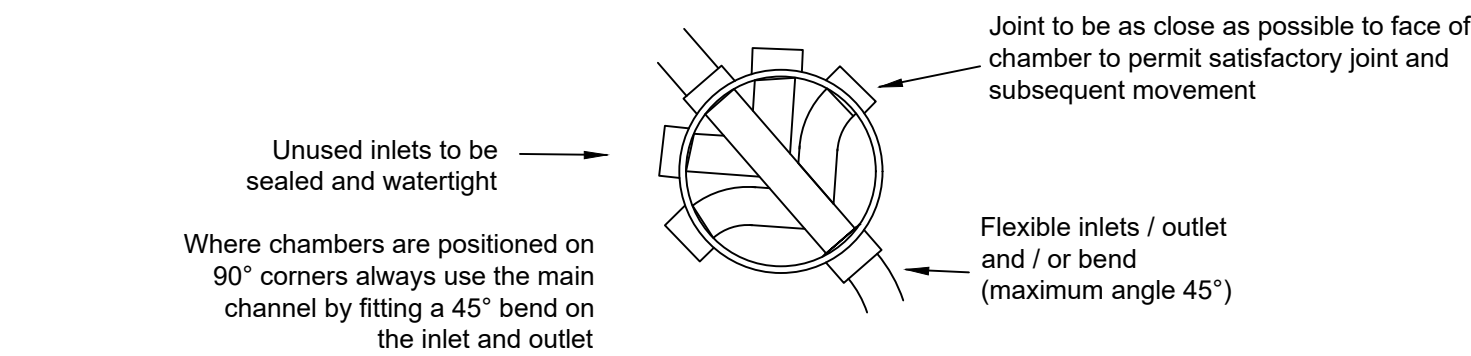
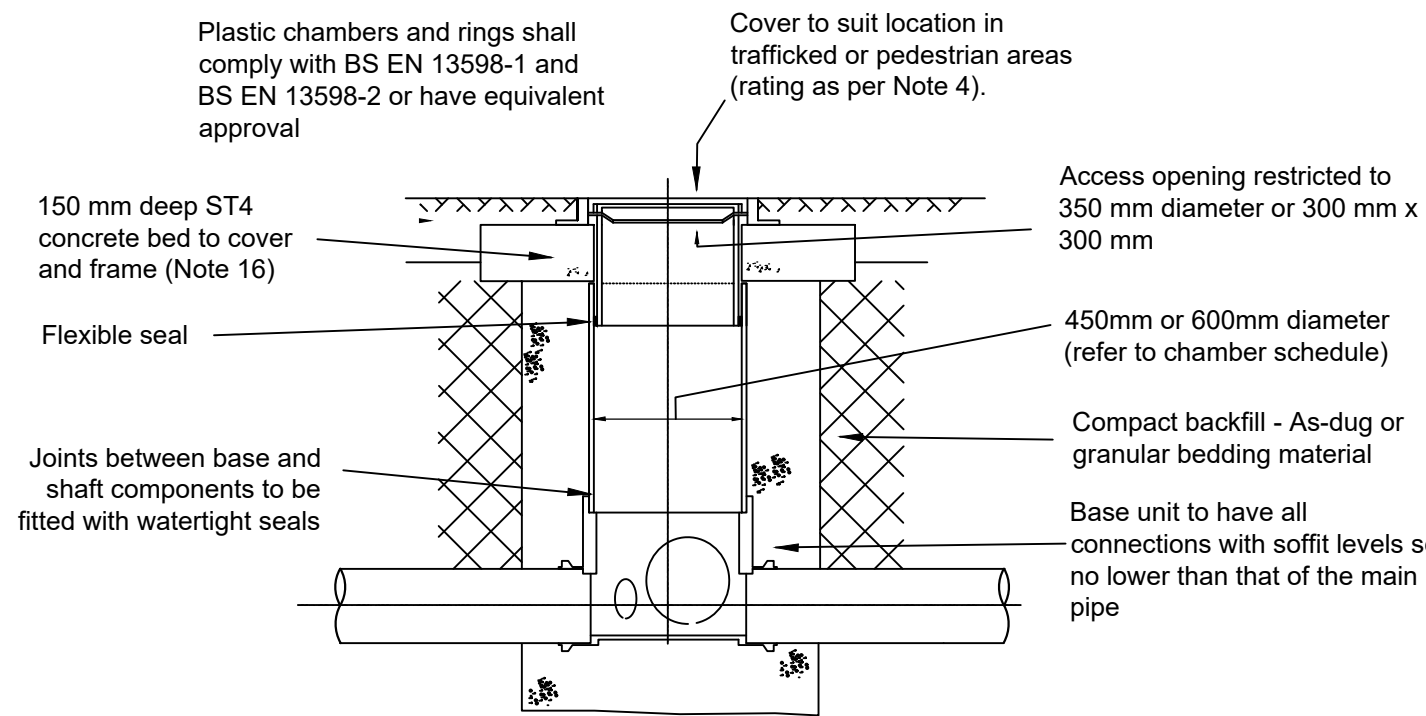
NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES.
2. Chamber walls 225 thick to be constructed in class B clay engineering bricks to SHW Series 2400 in designation (I) mortar or in-situ ST4 concrete to SHW, Clause 2602.
3. For details of pipe size(s), invert level(s) and type of cover and frame, see Drawings and Appendix 5/1.
4. See SHW, sub-Clause 507.7 regarding backfilling/surround to chamber.

HIGHWAYS DRAINAGE: TYPE 1 MANHOLE (Pipes 450Ø max, max depth to soffit 1.5m)

NOTES:

1. DO NOT SCALE FROM THIS DRAWING. All dimensions are in millimetres unless stated otherwise.
2. New drainage works to comply with and referenced to the Civil Engineering Specification for the Water Industry 7th Edition (CESWI), Sewers for Adoption 7th Edition (SfA) or the Specification for Highway Works (SHW) unless stated otherwise, as appropriate to the adopting authority.
3. All covers for adoptable manholes (Dwr Cymru) to be rated at D400 to BS EN124 and kite-marked. All covers to adoptable chambers (Dwr Cymru) in driveways, footways or landscaped areas to be rated at B125 minimum and be kite-marked. Covers to comply with cl. E2.32 (SfA).
4. All pre-cast concrete manholes to be to BS EN1916:2002/BS 5911-1 2002 and kite-marked.
5. Covers and access openings shall be orientated to ensure adequate access in relation to the chambers' internal layout.
6. All PE or HPPE pipes to comply with BS EN 13244-1 or WIS 4-32-17 and be kite-marked.
7. All vitrified clay pipes to comply with BS EN 295 and be kite-marked. VC pipe strength to be minimum 34kN/m in accordance with Table 5, BS EN295-1 for pipes up to 150 dia.
8. All concrete pipes to be to BS EN1916 and BS5911-1 and be kite-marked. Concrete pipe strength to be Class 120 in accordance with Table 8, BS5911-1
9. Bedding fill for Type S bed & surround to be single-sized granular fill in accordance with WIS 4-08-01, sized as below:
Pipe Dia Aggregate size
100-150 10 or 14mm
225-600 10, 14 or 20mm
10. Rocker pipe lengths to be 600mm.
11. Sewer lengths beneath trafficked areas to be backfilled above the bed & surround with Type 1 or Type 2 granular fill laid (SHW series 2600) and compacted in layers not exceeding 0.3m thick up to the underside of the pavement construction. Sewer lengths beneath landscaped areas may be backfilled with selected excavated fill laid and compacted in layers to suit the material, subject to the Engineer's prior approval of the proposed material.
12. A proprietary pre-formed concrete base may be used in lieu of an in-situ concrete base for chambers 1050 dia and above, subject to the Engineer's prior approval of the system proposed. Overly-thick pre-cast concrete rings may be used for the same chambers in lieu of pre-cast rings and in-situ surround, also subject to the Engineer's prior approval of the system proposed.
13. All mortar, in-situ or precast concrete shall use sulphate-resisting Portland cement to BS 4207. The BRE SD1 rating for this site is to be confirmed on site.
14. ST4 concrete as per cl. 2601 (series 2600 SHW). GEN3 concrete as per cl. E4.1 (SfA).
15. Refer to the accompanying schedule for manhole and inspection chamber sizes.



450/600Ø INSPECTION CHAMBER - PRIVATE DRAINAGE (NTS)

Maximum depth from cover level to soffit of pipe 2m.
For areas subject to light vehicle loading, driveways, gardens, non-entry

Not approved for
construction

Rev.	Date	Revision details	Drawn	Checked	Approved

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SYSTRA
www.systra.co.uk
3rd Floor, Innovation Court
121 Edmund Street
Birmingham, B3 2HJ
T 0121 230 6010
F 0121 230 6011

Client **EDWARDS HOMES**

Project **STATION AVENUE, CHIRK, WREXHAM**

Title **DRAINAGE CONSTRUCTION DETAILS
SHEET 2 OF 3
ADOPTABLE DRAINAGE - HIGHWAYS
& PRIVATE DRAINAGE**

Drawn NJH	Checked TD	Approved TD
Original dwg. size A1	Date SEPT '19	Scale NTS
Drawing Status FOR APPROVAL	Drawing Number 108287 - 511	Rev. -