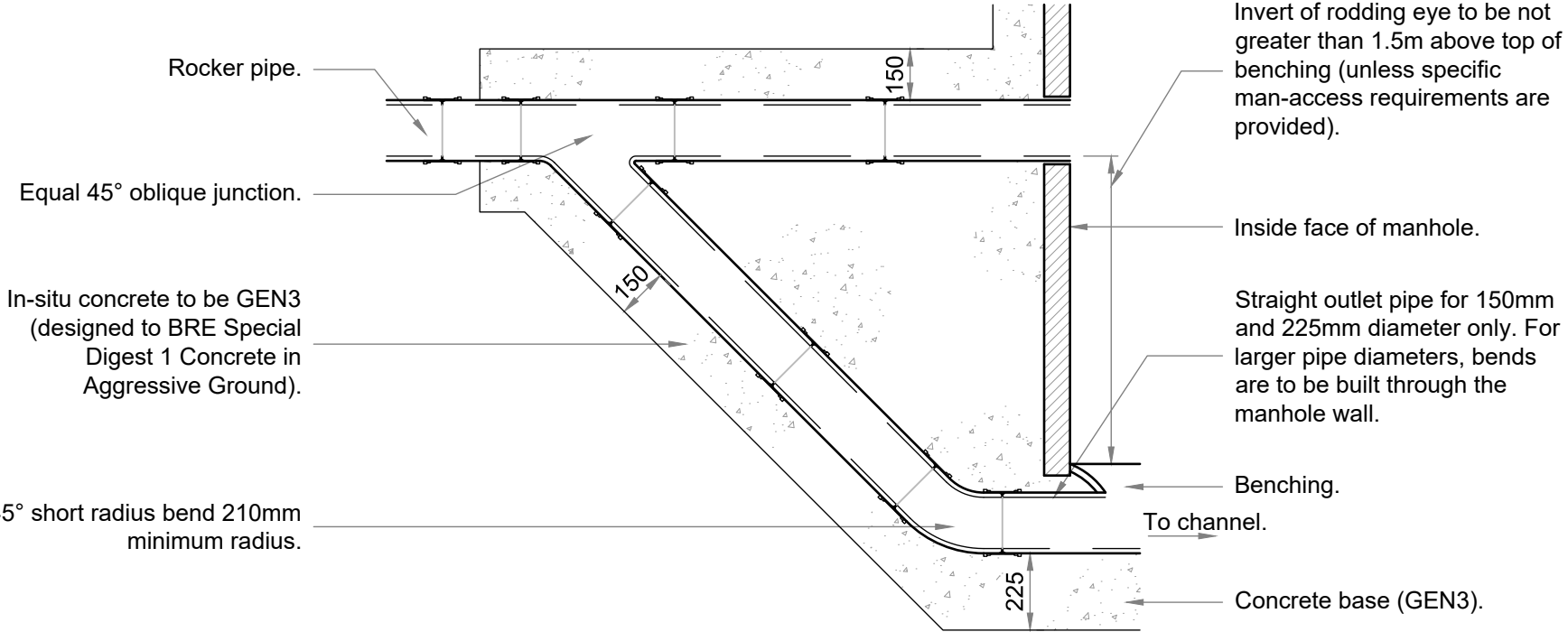
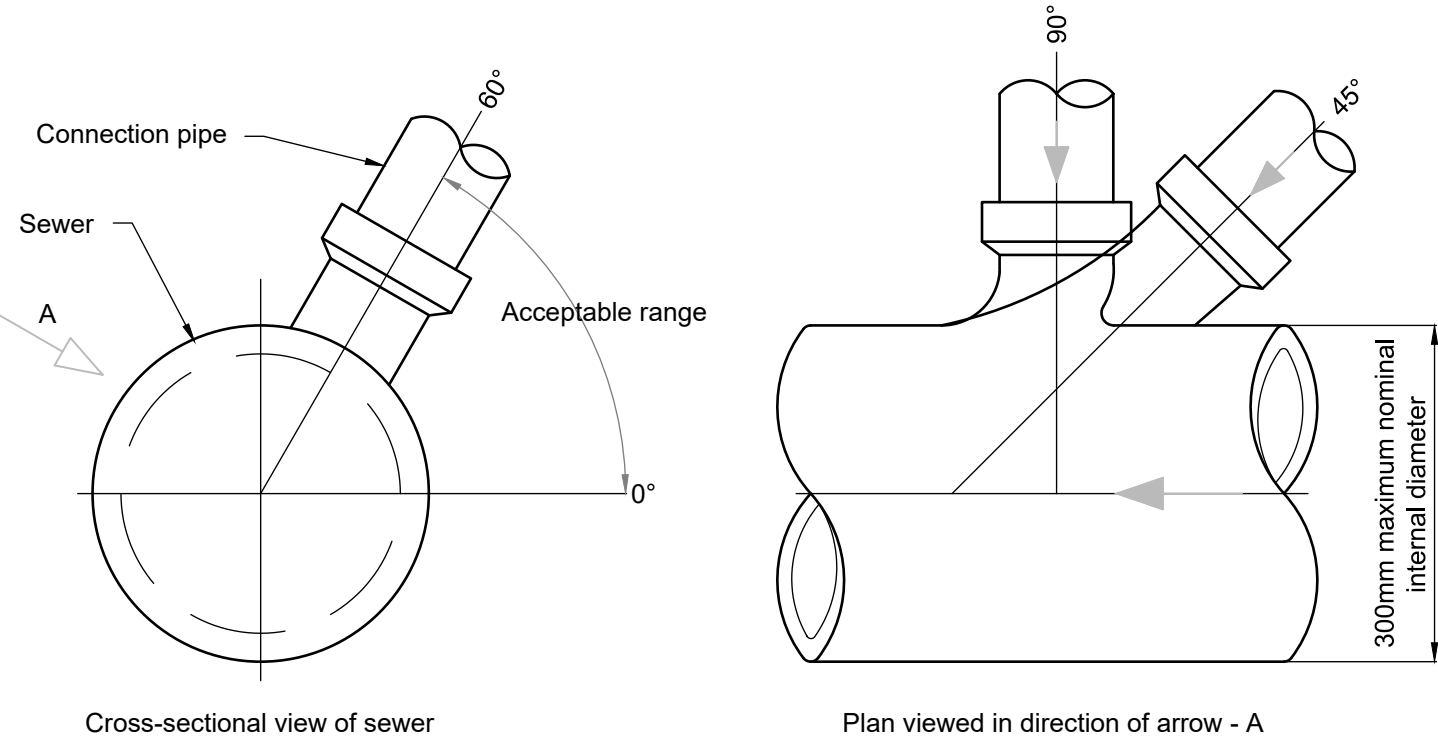
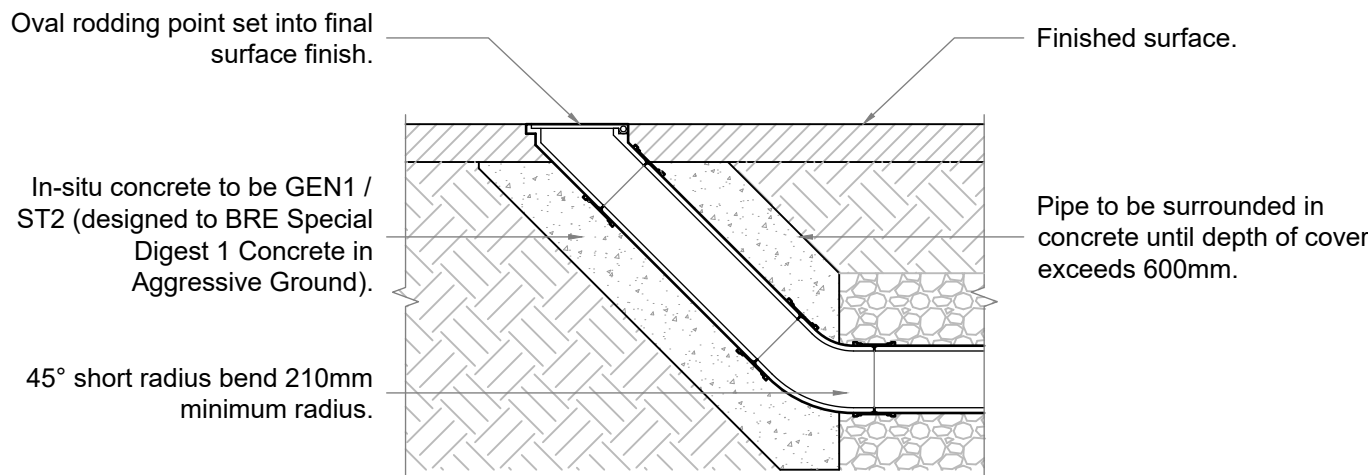




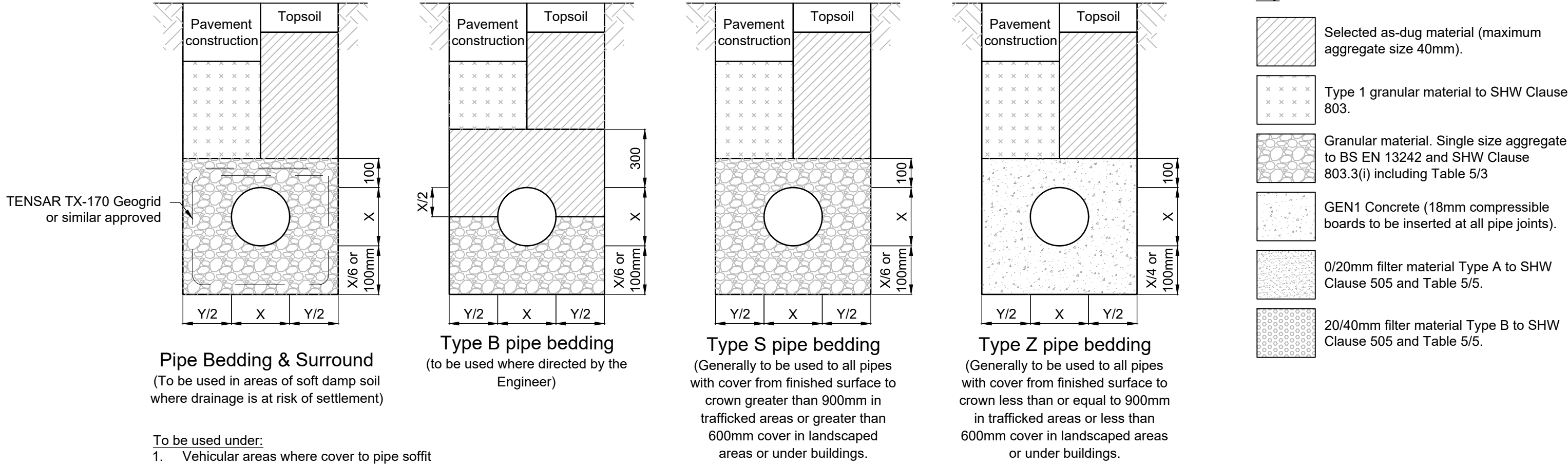
External ramped backdrop  
Scale 1:20



Connection to sewers  
Scale 1:20



Rodding eye  
(to be used in non-vehicular areas only)



Pipe Bedding & Surround  
(To be used in areas of soft damp soil where drainage is at risk of settlement)

- To be used under:
1. Vehicular areas where cover to pipe soffit is greater than 1200mm.
  2. All non-vehicular areas where cover to pipe soffit is greater than 900mm

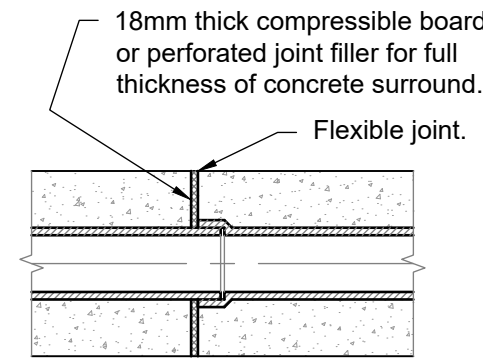
NOTES:

1. X = Outside diameter (OD) of pipe.
2. The first 300mm of fill above the crown of the pipe shall not be mechanically compacted.
3. Geotextiles may be used, where directed by the Engineer, to contain bedding material in certain soils, such as running sand.
4. In very wet conditions, or where directed by the Engineer, a temporary land drain may be laid within the granular bed.

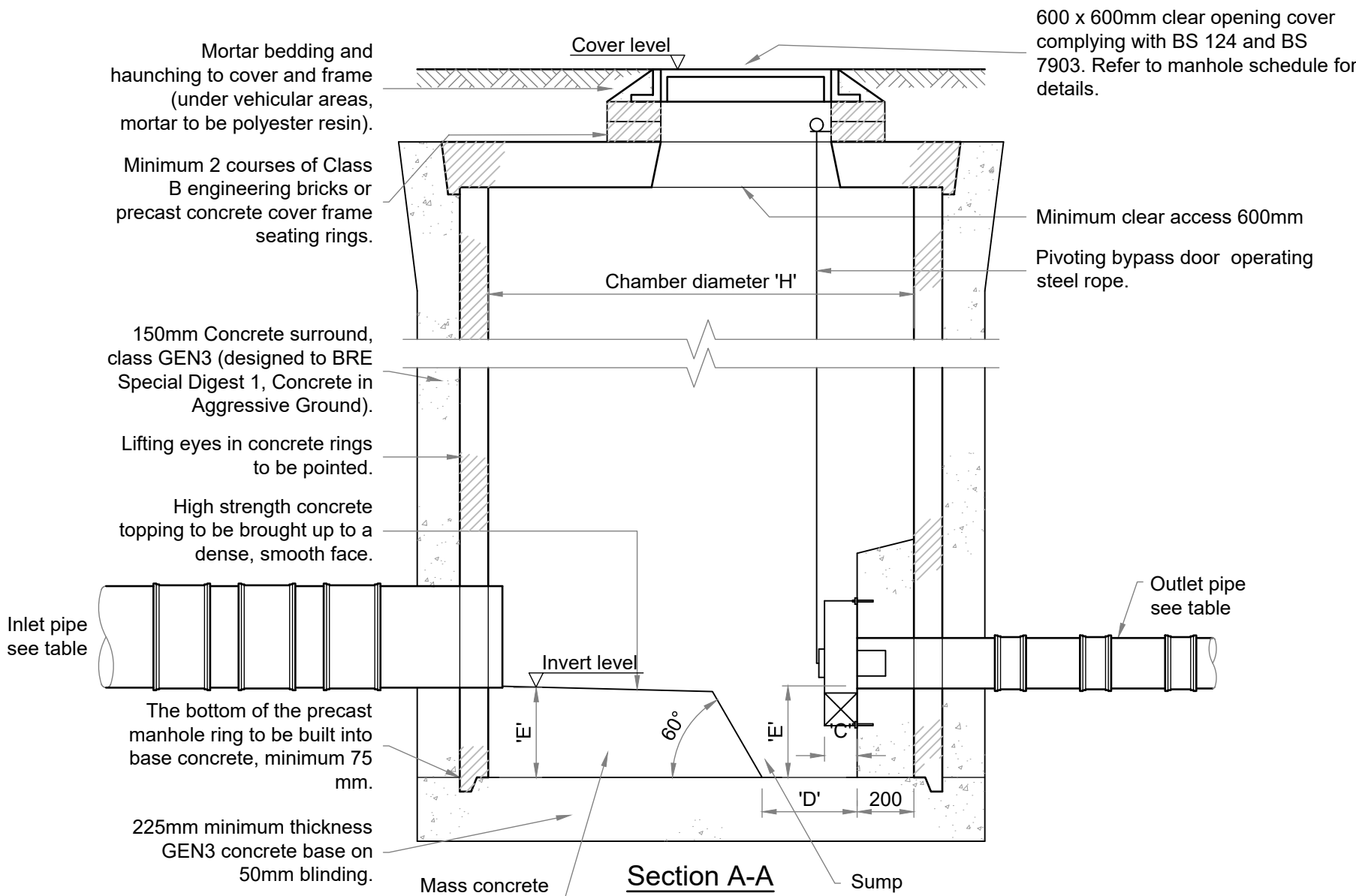
Note:-  
For dimensions 'X' and 'Y'  
refer to table P1 below

| Table P1: Trench widths and granular fill |        |                                        |
|-------------------------------------------|--------|----------------------------------------|
| Pipe (X) size                             | Y (mm) | Granular fill                          |
| 100                                       | 400    | 10mm nominal size single stone         |
| 150                                       | 400    | 10, 14mm nominal size single stone     |
| 225 - 300                                 | 500    |                                        |
| 375 - 450                                 | 700    |                                        |
| 525 - 675                                 | 700    | 10, 14, 20mm nominal size single stone |
| 750 - 1200                                | 850    |                                        |
| 1350 - 1800                               | 1000   |                                        |

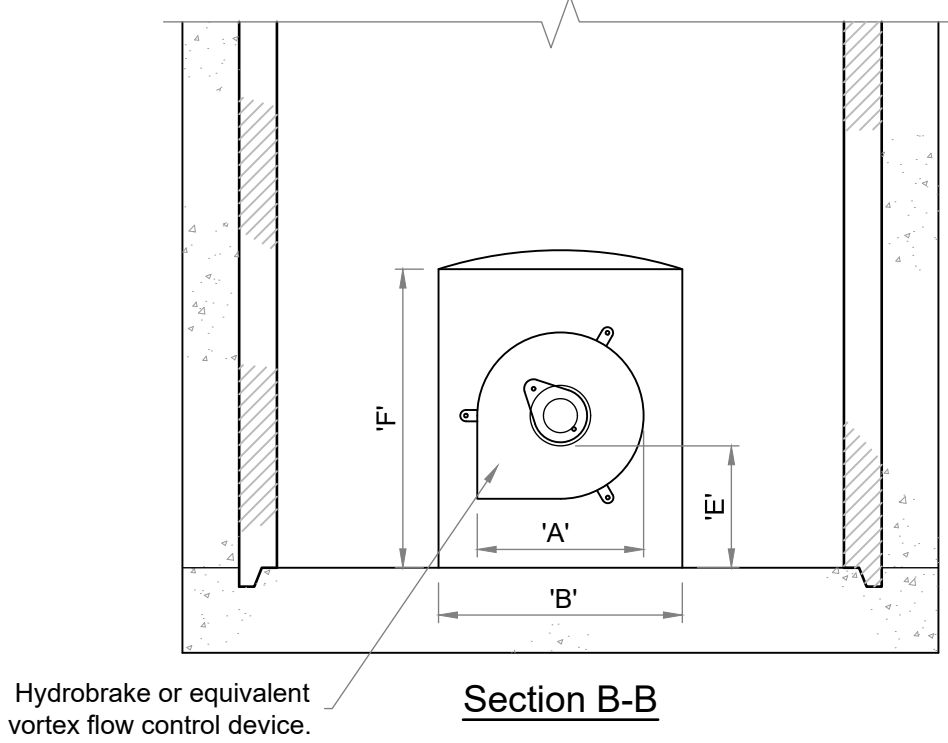
Pipe bedding details



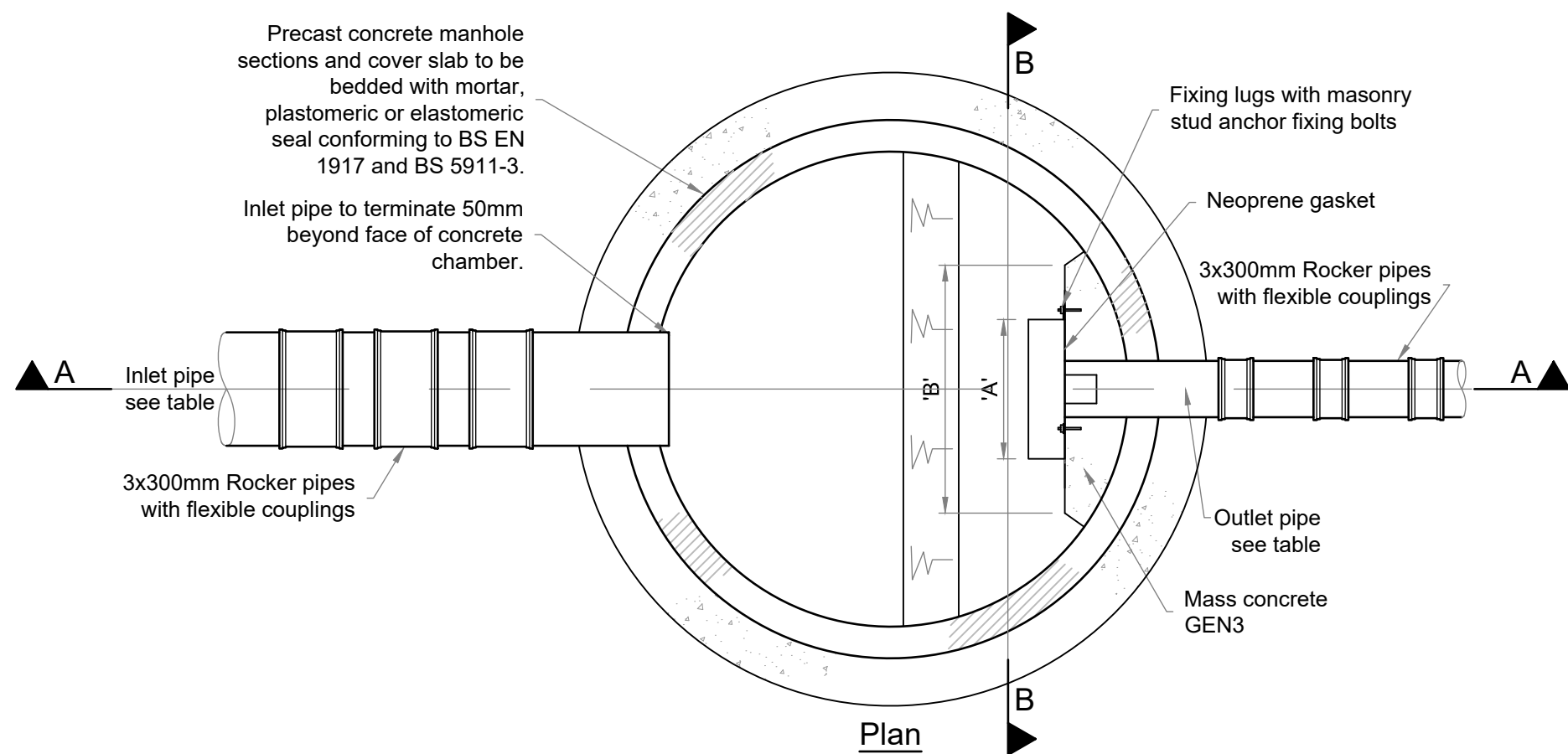
Movement joint for pipes with  
concrete bed and surround



Section A-A



Section B-B



Hydrobrake chamber (type 1, simple control)  
Scale 1:20

Hydrobrake Technical Specification

Note: an equivalent vortex flow device may be used subject to meeting the minimum specifications provided below:

Grade 304 stainless steel vortex flow control unit with integral stainless steel pivoting bypass door allowing clear line of sight through to outlet, c/w stainless steel operating rope. Stainless steel fixings and neoprene gasket seal to outlet.

| Manhole Reference:         | Flow Control MH         |
|----------------------------|-------------------------|
| Cover Level (m):           | Invert Level (m):       |
| Hydrobrake Reference:      | SHE-0078-2200-0500-2200 |
| Design Head (m):           | 0.50                    |
| Design Flow (l/s):         | 2.20                    |
| Inlet Pipe diameter (mm):  | 150                     |
| Outlet Pipe diameter (mm): | 150                     |
| Dimension 'A' (mm):        | 310                     |
| Dimension 'B' (mm):        | 515                     |
| Dimension 'C' (mm):        | 85                      |
| Dimension 'D' (mm):        | 170                     |
| Dimension 'E' (mm):        | 270                     |
| Dimension 'F' (mm):        | 660                     |
| Dimension 'G' (mm):        | NA                      |
| Dimension 'H' (mm):        | 1200                    |

Note: proprietary products shall be installed strictly in accordance with manufacturers details and specification.

Notes

1. Do not scale from this drawing on print or electronically. Work from figured dimensions only.
2. No deviation from the details on this drawing is allowed without CampbellReith's prior permission in writing.
3. Read this drawing with all Architect's, Service Engineer's and CampbellReith's relevant details, specifications and drawings.
4. All work is to be done in accordance with the relevant specifications issued by CampbellReith, British Standard Codes of Practice, Statutory Requirements and the Contract Documents.
5. **Drawing status:**  
**P: Preliminary** Evolving drawings for approvals, tenders, billings etc.  
**C: Construction** Fully developed drawings issued under instructions for construction.
6. Only status C drawings to be used for construction.
7. Suitability code:

Work in progress

S0 - Work in progress

Shared (Non-contractual)

S1 - For coordination, S2 - For information, S3 - For internal review and comment, S4 - For construction approval.  
Documentation (For contractors purposes)

D1 - For Costing, D2 - For Tender, D3 - For contractor design, D4 - for manufacture/procurement.  
Construction

A - For construction, B - For construction but with comments (i.e. areas in abeyance), CR - Construction Record (Final Construction ONLY. Any deviations to that which is on site is not the liability of CampbellReith)

|     |                   |          |    |
|-----|-------------------|----------|----|
| P1  | Issued for Tender | 02.07.21 | SH |
| Rev | Description       | Date     | By |

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| Job Title | Central Arun Crematorium |
| Client    | Westerleigh              |

|                                             |  |  |  |  |  |  |  |
|---------------------------------------------|--|--|--|--|--|--|--|
| Drainage Construction<br>Details<br>Sheet 2 |  |  |  |  |  |  |  |
|---------------------------------------------|--|--|--|--|--|--|--|

|          |           |            |            |             |            |
|----------|-----------|------------|------------|-------------|------------|
| Drawn by | Date made | Scale @ A1 | Checked by | Suitability | CR Project |
| SH       | June'21   | As Shown   | AJH        | S2          | 13591      |

|             |            |        |         |      |      |        |     |
|-------------|------------|--------|---------|------|------|--------|-----|
| Project No. | Originator | Volume | Lvl/Loc | Type | Role | Number | Rev |
| 13591       | CRH        | XX     | XX      | DR   | C    | 5302   | P1  |