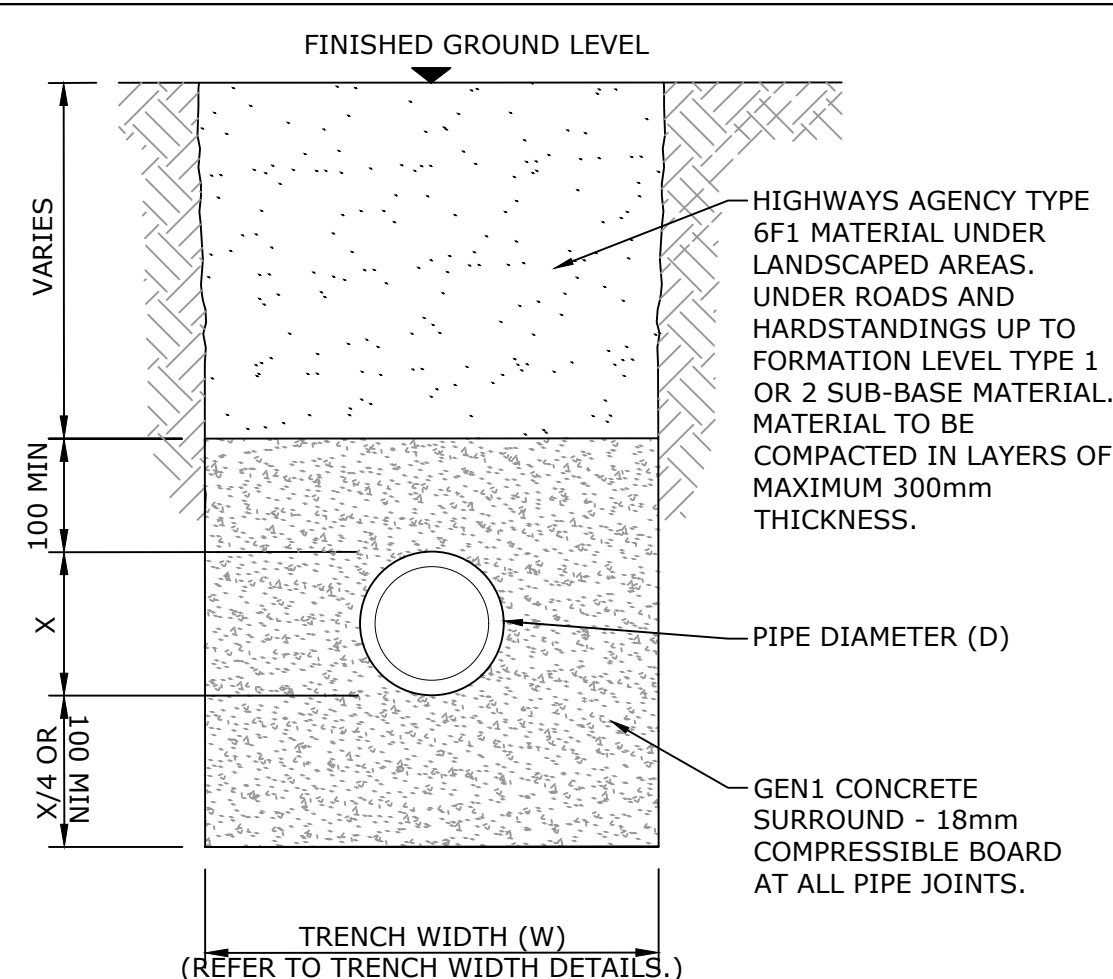
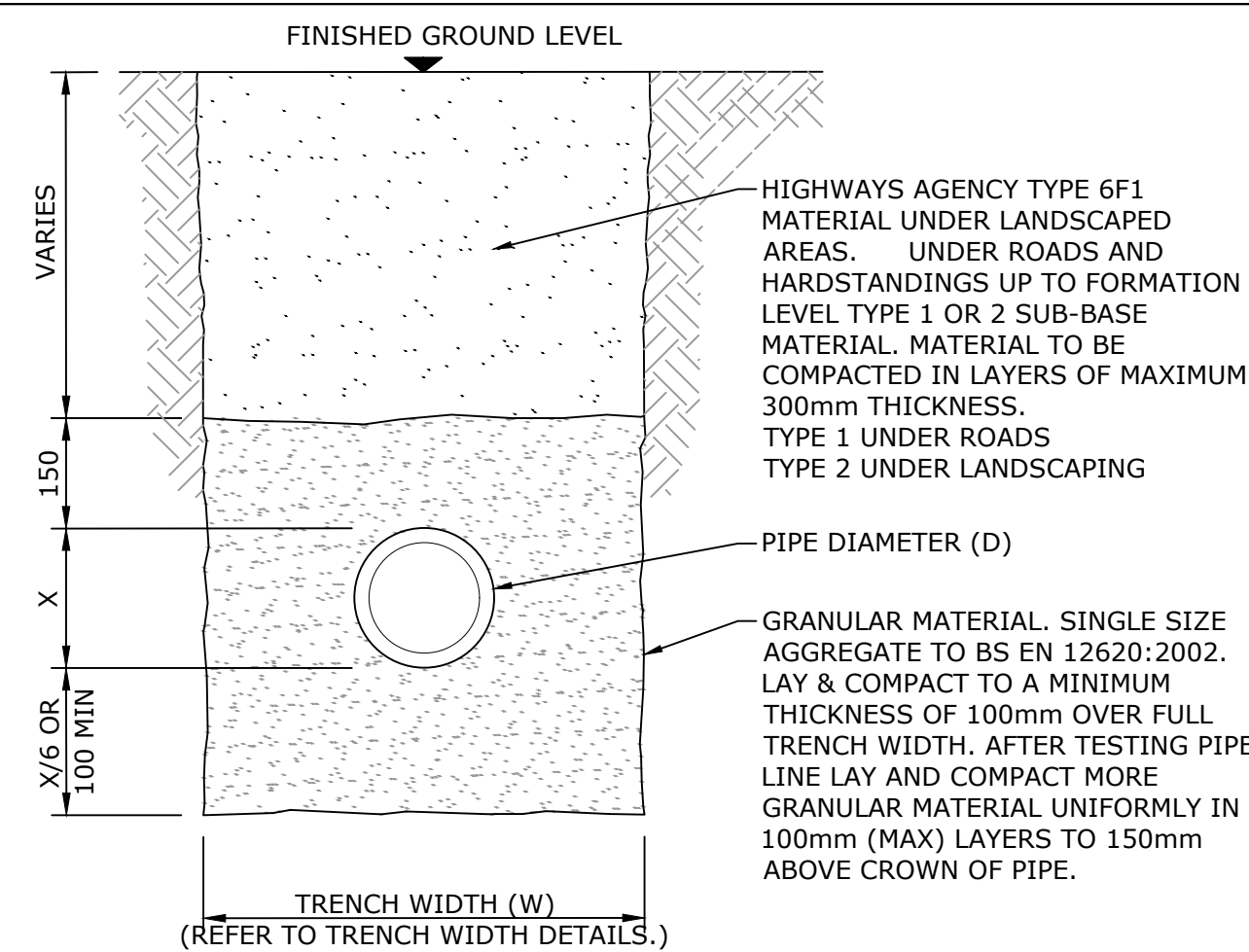
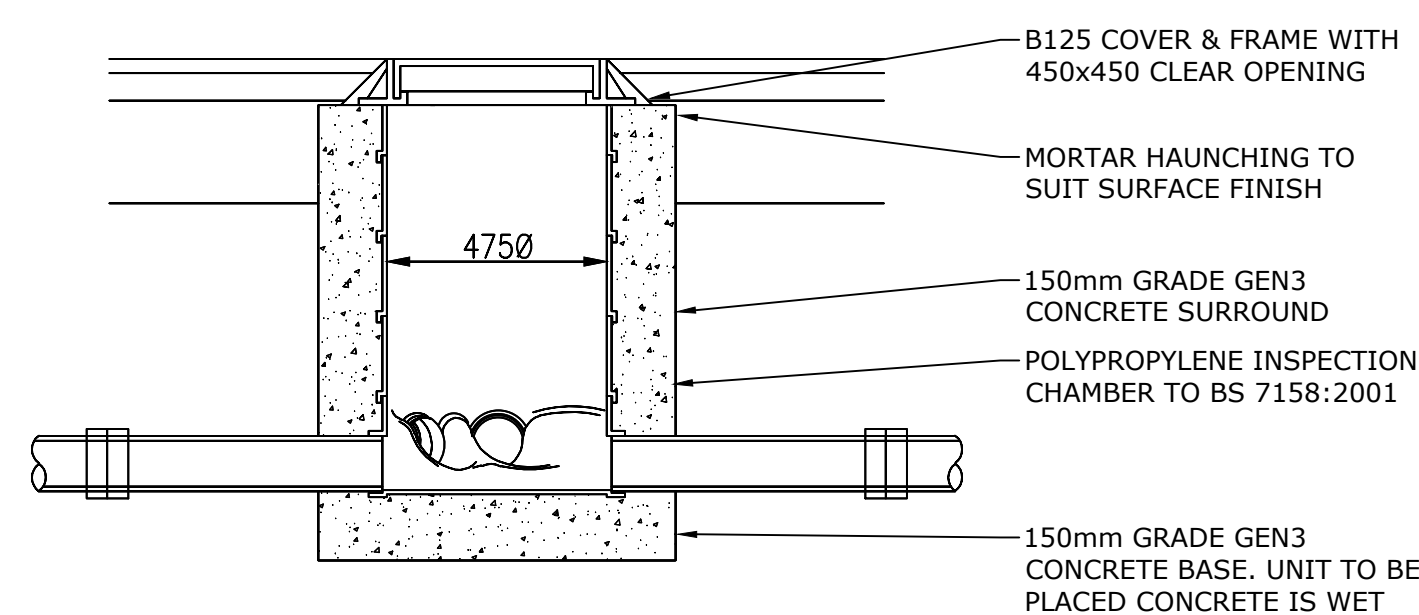
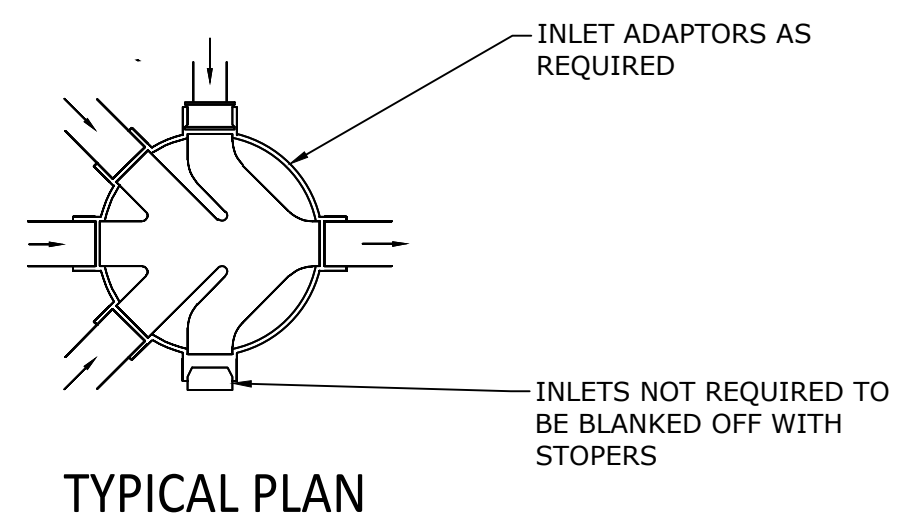
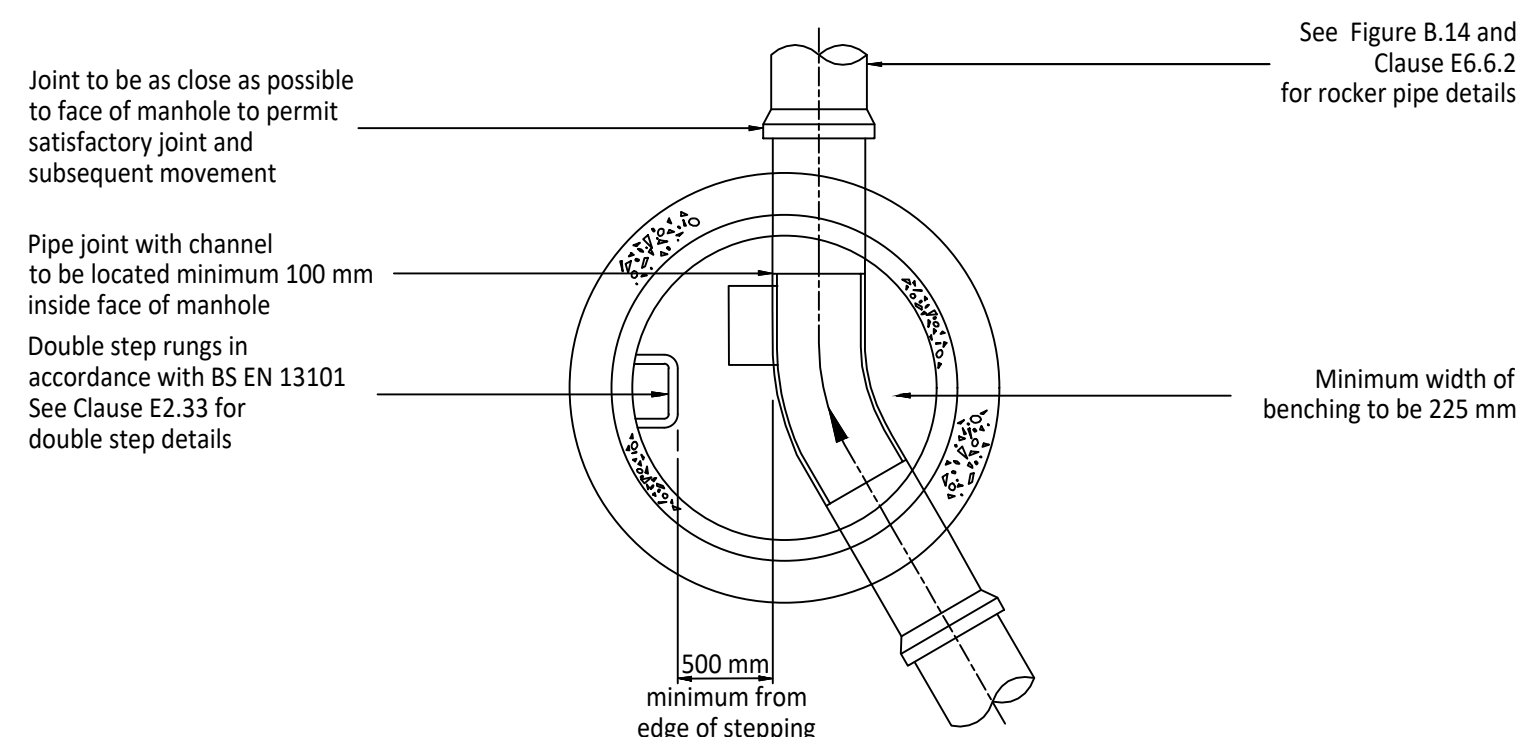
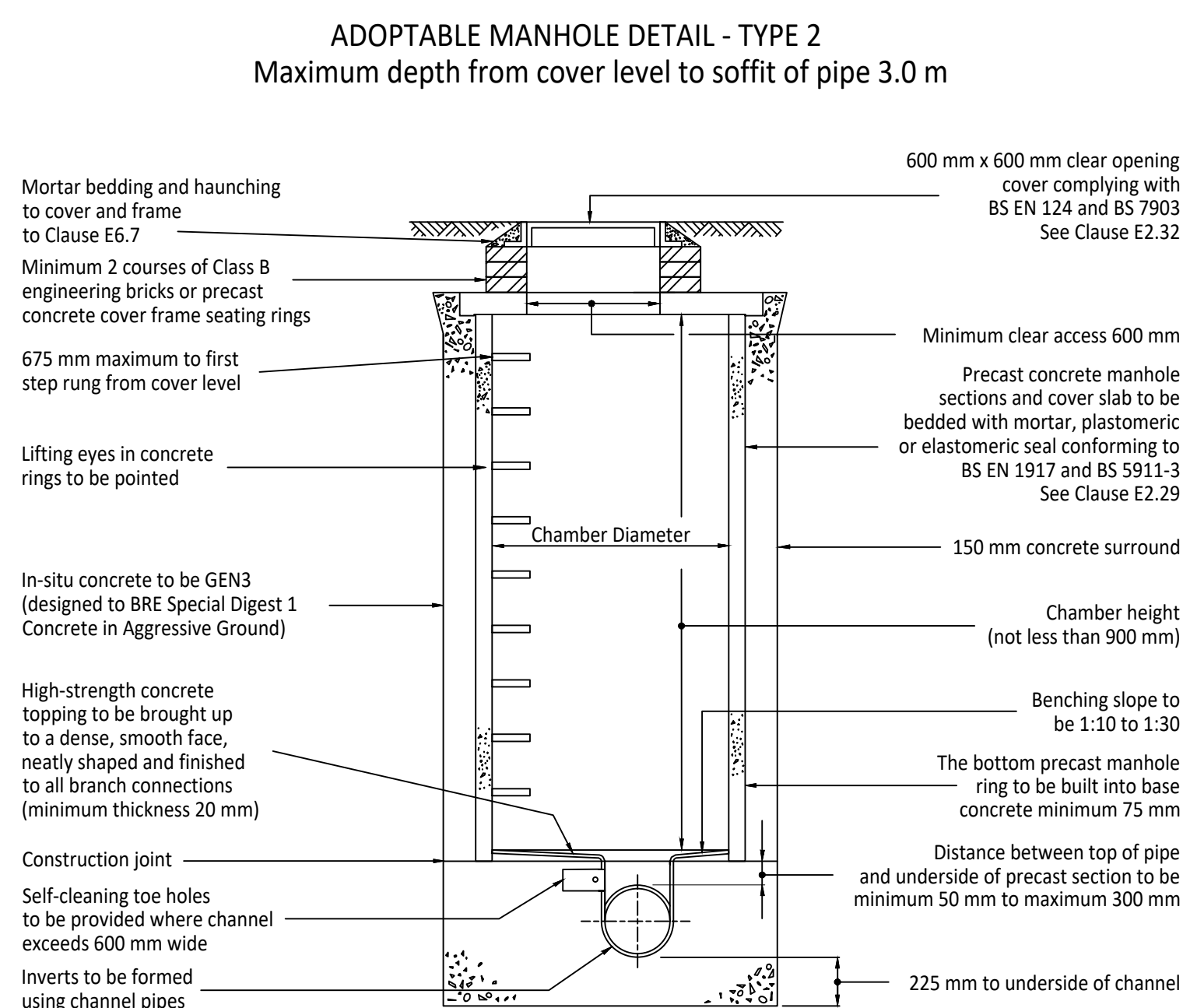




LOCATION	PIPE MATERIAL
HIGHWAY DRAINS	VITRIFIED CLAY
ADOPTABLE SEWERS	VITRIFIED CLAY OR CONCRETE
PRIVATE SEWERS 1000' - 2250'	uPVC OR VITRIFIED CLAY
PRIVATE SEWERS $\geq 3000'$	TWIN WALL HDPE OR VITRIFIED CLAY OR CONCRETE
PRIVATE SEWERS BELOW STRUCTURAL SLAB	FW - uPVC OR VITRIFIED CLAY SW - TWIN WALL HDPE OR CONCRETE OR DUCTILE IRON

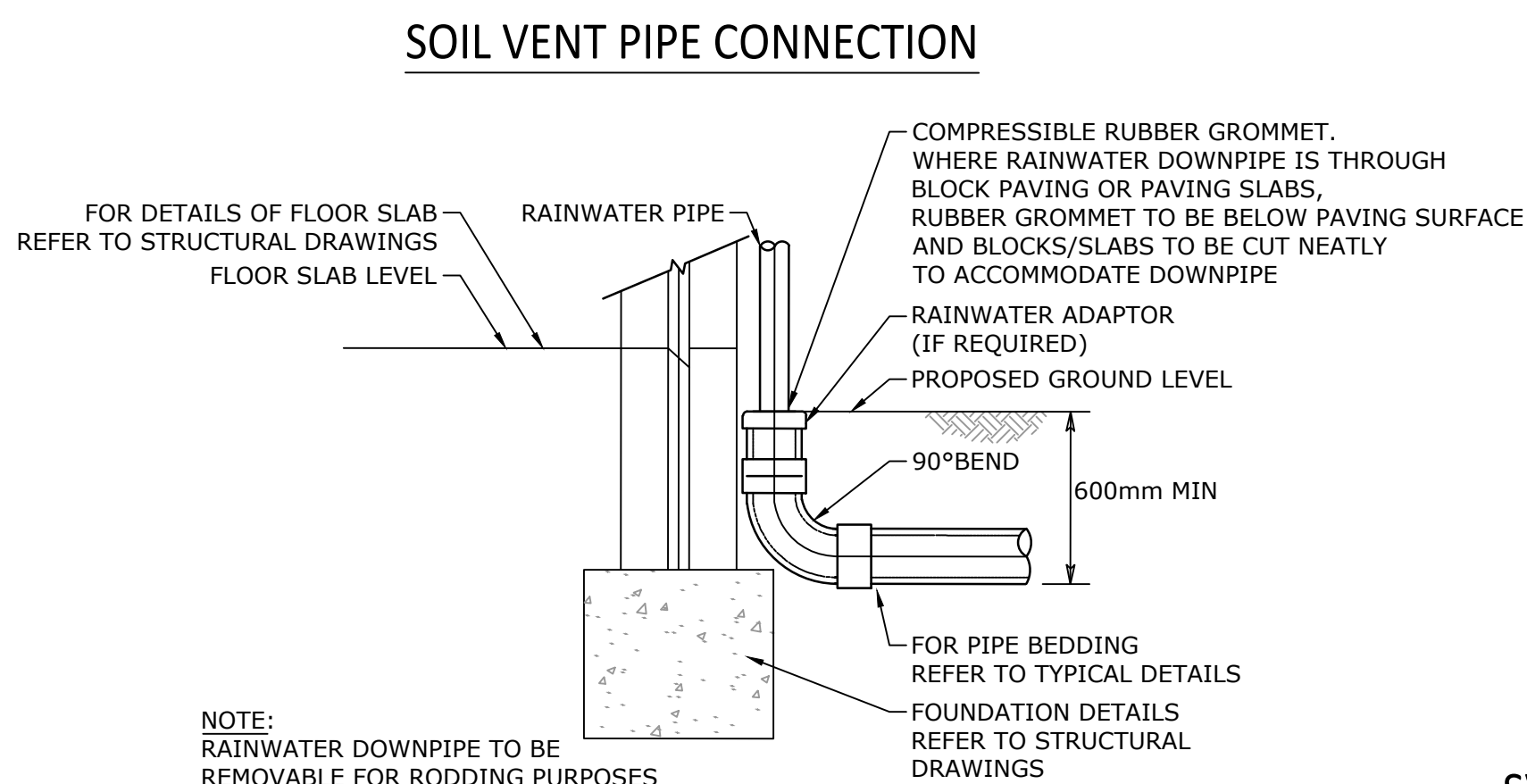
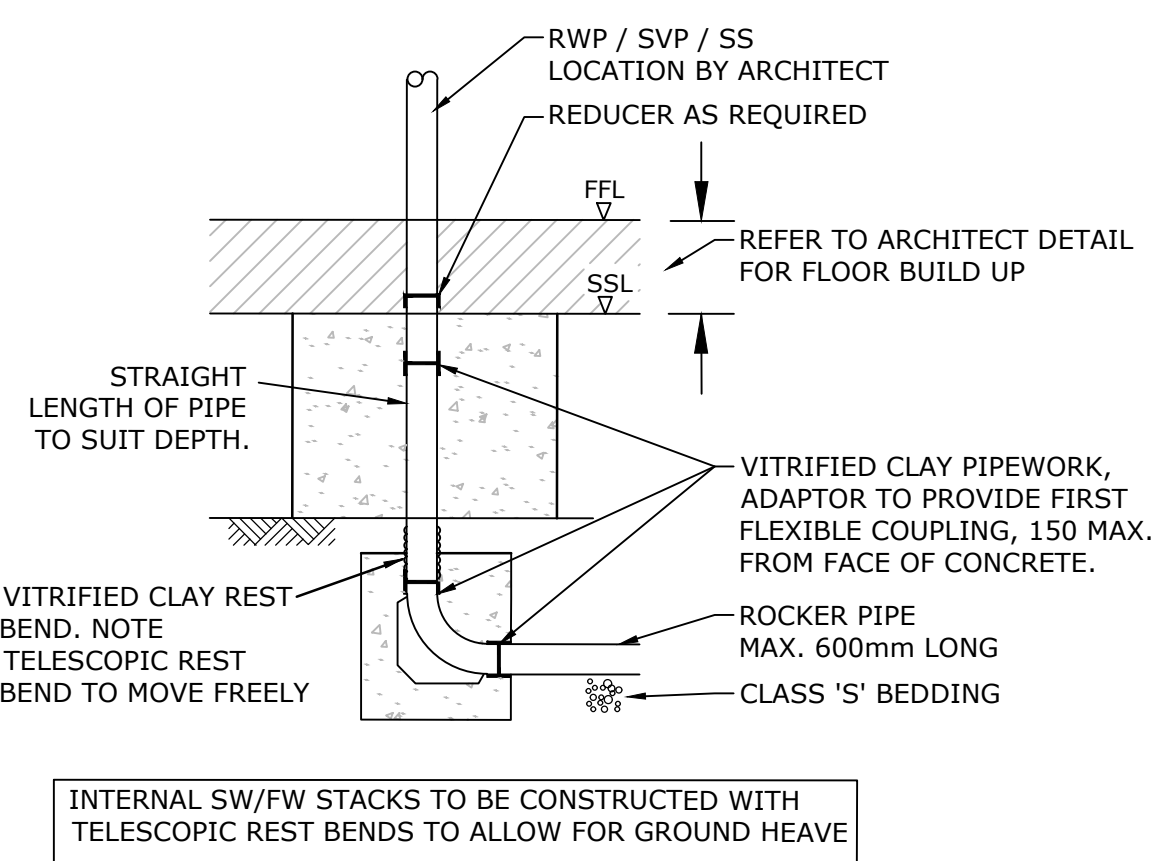
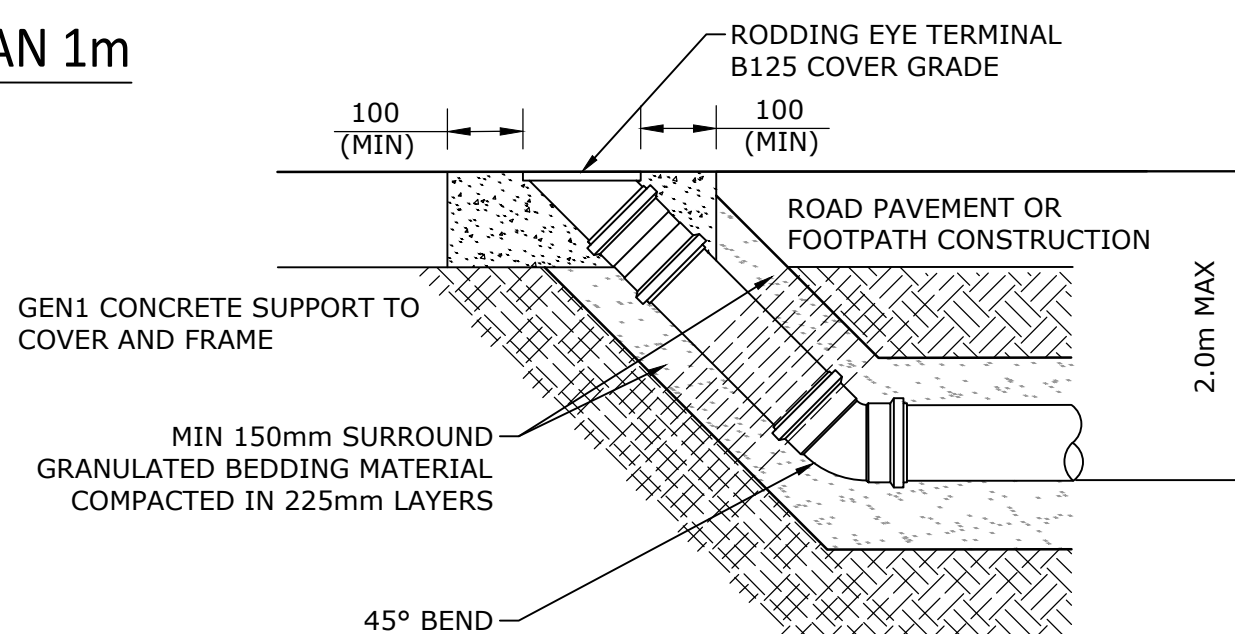
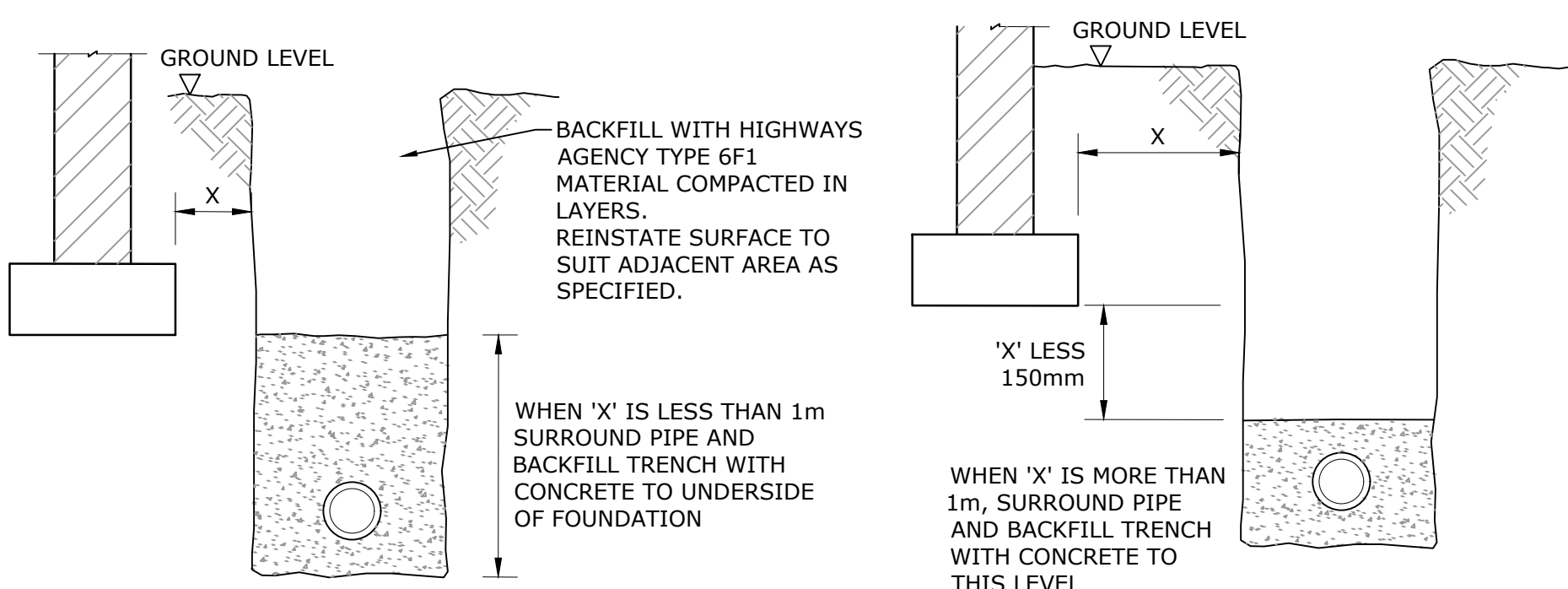
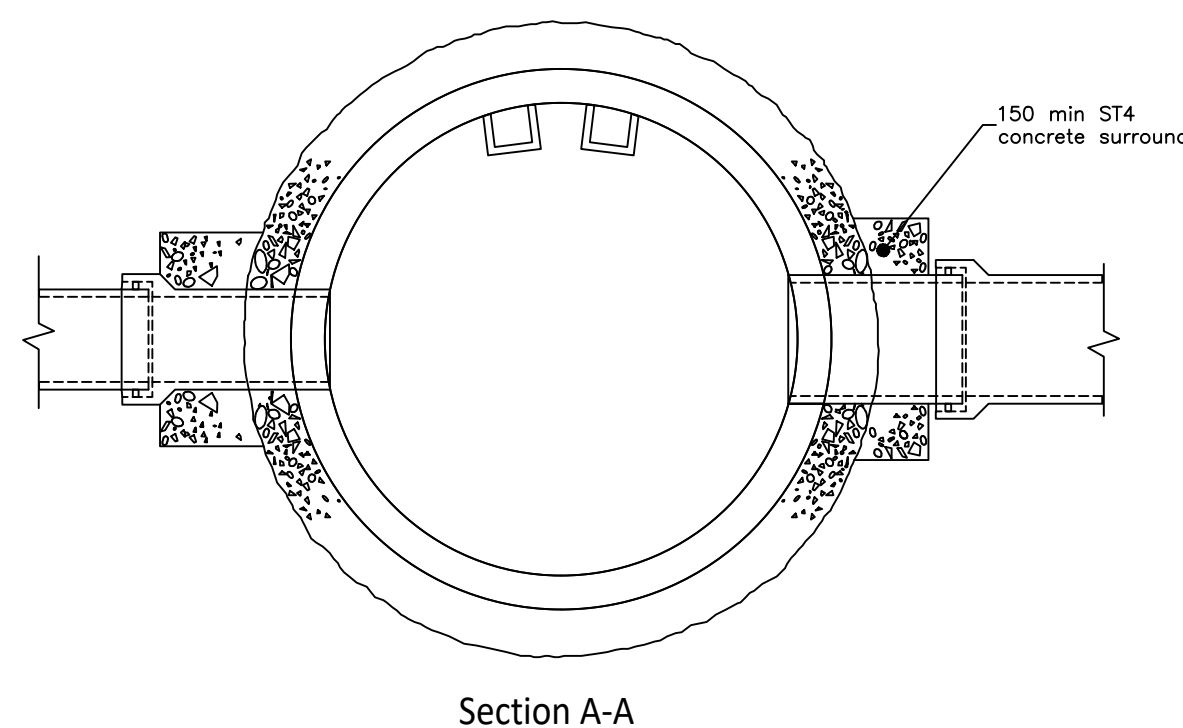


SECTION
TYPICAL POLYPROPYLENE INSPECTION CHAMBER (PPIC)
DEPTH UP TO 2.00m



1. All dimensions are in millimetres
2. Water Authorities Association guide Sewers for Adoption applies except where modified by this drawing.
3. Cover and frame to be Class D400 Badgemarked, HD, and Kitemarked and have a protective coating complying with BS EN 124: 1994.
4. Catchpits to be positioned so that no part of the structure is under the kerb.
5. Entrance to catchpits to be positioned with consideration for safety.
6. Bricks to be Engineering Class B to BS 3921 laid in English Bond in mortar to designation (i) to SHW series 2400.
7. Pre-cast concrete chambers shall comply with BS 5911 Part 200.
8. Mortar to designated (i) to SHW series 2400 or a proprietary sealant shall be used in all joints between precast concrete units.
9. Finish to internal concrete to be F1 on formed surfaces and U2 on unformed surfaces.
10. All voids beneath the catchpit structure shall be backfilled with S71 concrete.
11. Ends of pipes shall be neatly built into the chamber and finished flush with mortar to designation (i) to SHW series 2400.
12. The nearest joints to chamber shall not be restricted by concrete
13. Safety chains or grills must be provided where pipe diameter exceeds 600.
14. Surface level tolerance +6 -15 in paved areas -15 min. -50 max. in verges.

Internal diameter of chamber	Diameter of largest pipe in chamber
1200	Less than 375
1350	375 - 450
1500	500 - 700
1800	750 - 900



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DRAINAGE NOTES:

1. Do not scale.
2. Refer to all other Project Drawings and supporting notes.
3. All sewers to comply with the requirements of Design and Construction Division together with Southern Water's Appendix A. All public sewers are to be the subject of a Section 104 agreement with the Water Industry Act 1991.
4. All private sewers are to be the subject of a Section 104 agreement of the Water Industry Act 1991.
5. Invert levels of existing manholes and sewers are to be checked on site before construction commences and results to be confirmed.
6. The Contractor is responsible for maintaining continuity of flow for all existing sewers within the site boundary and limit of works for the duration of the project.
7. All new sewers to be installed in accordance with BS EN124, and be stamped with BS 8itemaker. Covers to suit loading as below:
 - Carriageways and Roads - D400
 - Driveways and Verges - C250
 - Footways and Pedestrian Areas - B125
 - Gardens/Landscaping - A150
8. All sewer pipes, up to, and including 225mm are to be vitrified clay to BS EN259. All sewer pipes 300mm diameter and above to concrete pipes to BS EN1610.
9. All drainage to be installed and tested strictly in accordance with the Manufacturers' printed instructions, BS EN 752, BS EN 1601, Local Water Authority requirements and the Building Regulations.
10. All bedding shall be Class 2 unless noted otherwise.
11. All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted Type 1 granular sub-base material.
12. Drainage land beneath roads and areas of vehicular access (car parking etc) with less than 1200mm of cover shall be encased in concrete bed and surround with associated movement joints. Drainage laid beneath paths, footways and pedestrian areas with less than 900mm of cover shall be similarly treated.
13. Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
14. All material of precast and ductile products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
15. All gully connections to use a minimum diameter pipe of 150mm and be surrounded by a minimum of 150mm of Class C/SD concrete over its full length (which should not exceed 15m) and its connection to the carrier system.
16. All sewers to be abandoned must be surveyed to identify any lateral connections that are still live with any fused to be removed to the Engineer.
17. All laterals to be 150mm laid at 1:80 (surface) or 1:60 (foul) unless otherwise stated.
18. All private drains to be 100mm diameter unless otherwise specified.
19. All foul and storm water drains which are not to be adopted as public sewers shall be in accordance with Document H of the Building Regulations, together with NHBC Standards Chapter 5.3 and BS5830.
20. Where pipes pass through footings, retaining or screen walls, lintels to be provided over drains.
21. Where inverts are less than 0.6m deep inspection chambers (min. 150mm) or access fittings (225 x 100mm) to be used. Where proprietary plastic, brick or pvc is to be used and sized in accordance with Table 11 of Document H of the Building Regulations (<0.6m to invert min DN300, >0.6m to invert min DN475).
22. Gullies connect direct to drains to drainable.
23. Rainwater downpipes to be easily removable for rodding or to be provided with rodding access at ground level.
24. Unless noted otherwise FW's and RE's to be 0.6m below DPC level, SW's etc FW's to be 0.45m.
25. Adequate precautions to be taken to ensure Approved Document H and manufacturer's recommendations to be taken to protect drains (particularly plastics) at shallow depths.
26. Catchpits to be as 15's but with 300mm sump below outgoing pipe invert level except where detailed elsewhere.
27. Trees and shrubs of a large size or heavy canopy with a moderate or high water demand must not be planted within 1m of sewer system.
28. Gullies within and adjacent to area of site works to be cleaned at commencement and completion of works.
29. Trim deep root barrier of an approved type to be installed vertically along the back edge back of all areas of footway/ demarcation to protect from both proposed and future plantation.
30. Where connections are being made to pipelines rather direct to manholes all connections are to be made using oblique 45° junctions.

A	07/21	First Issue	JS	SL
Rev	Date	Description	Drawn	Checked

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Client
Frontier

Project
Dappers Lane
Angmering

Title
Drainage Details
Sheet 1

Status **For Approval**

Scale NTS	Date Jul 21	Drawn JS	Checked SL
Drawing No A360-07			Revision A