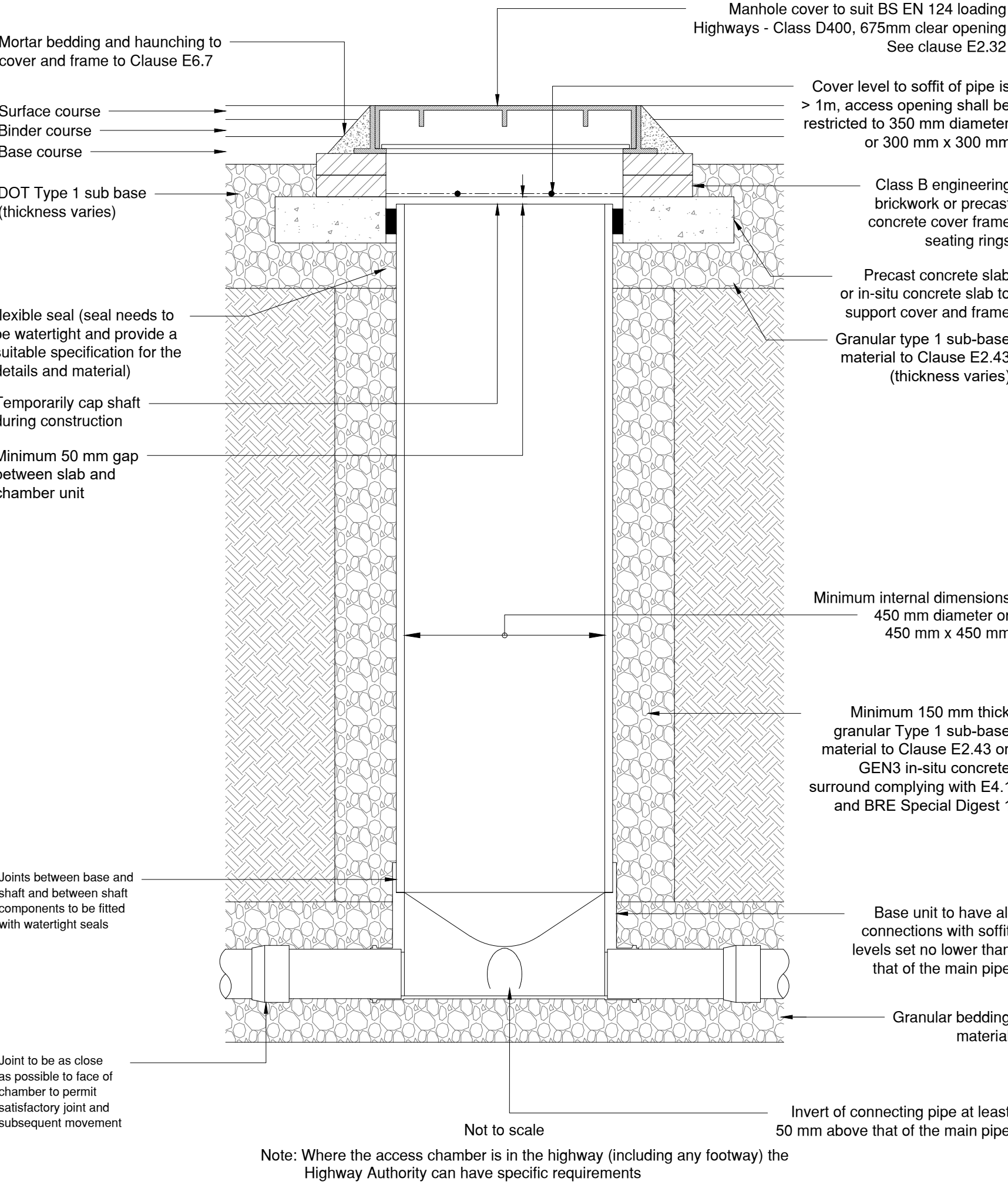


Plastic chambers and rings shall comply with Clause E2.31

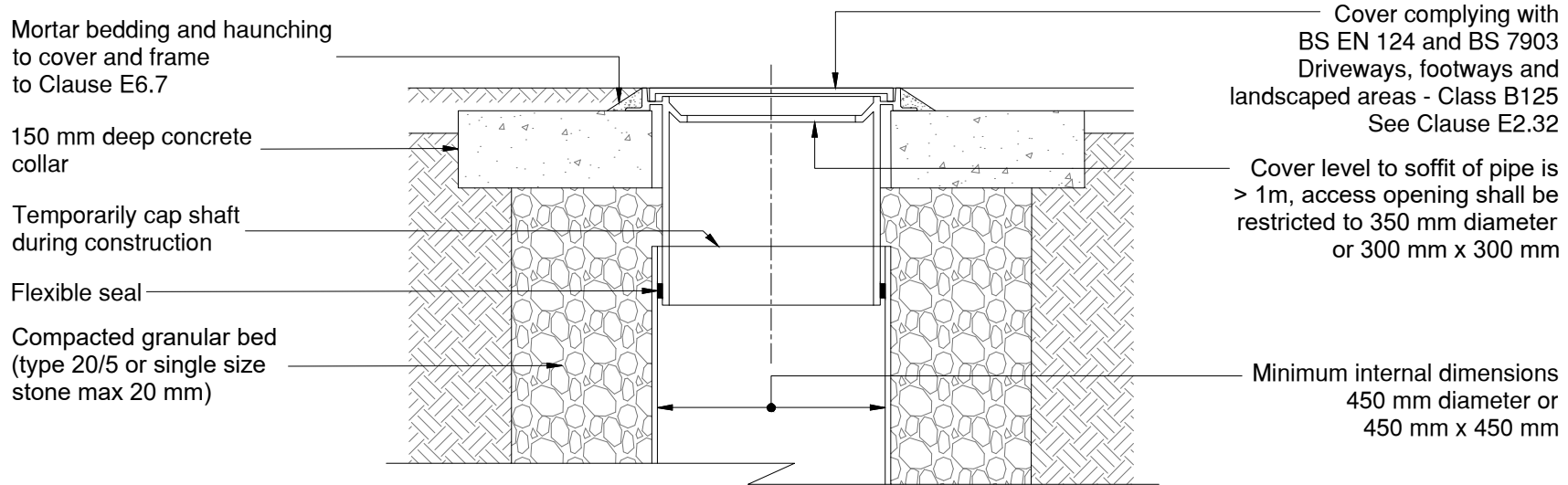


INSPECTION CHAMBER DETAIL - TYPE D (Flexible material detail)

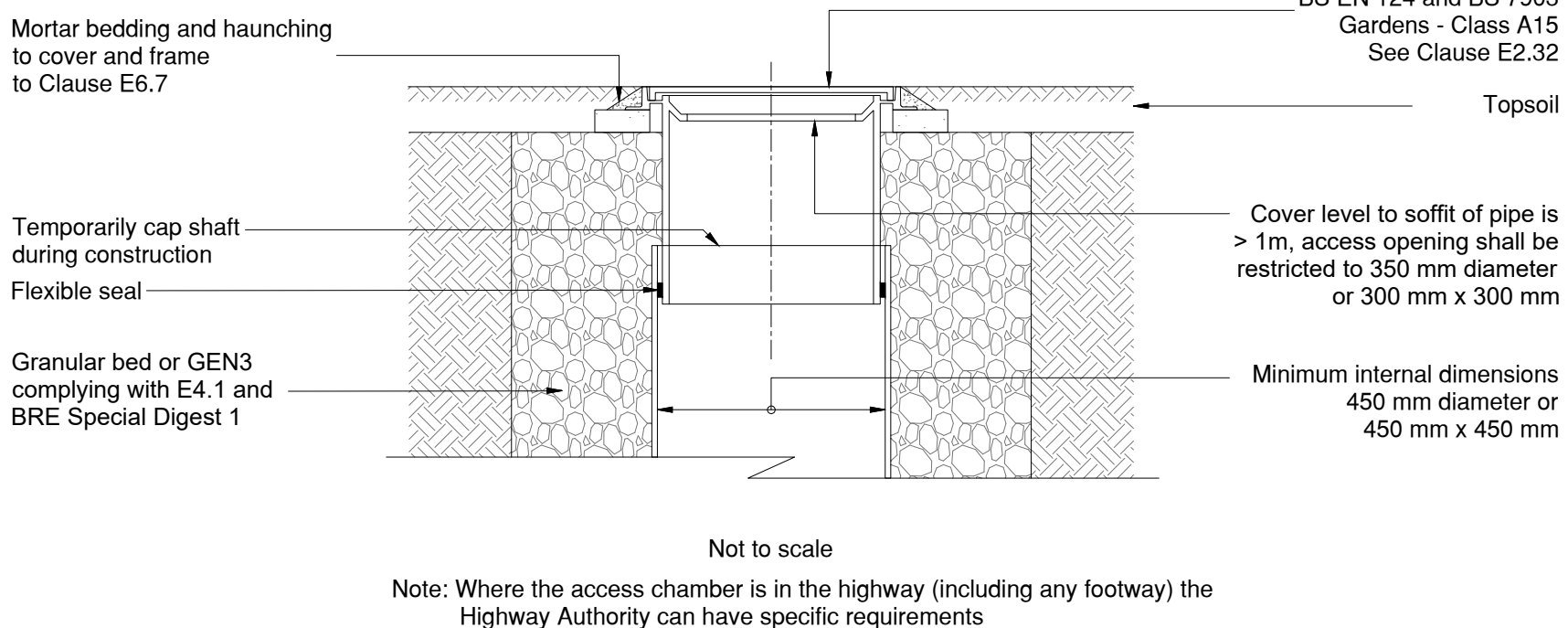
Maximum depth from cover level to soffit of pipe in areas subject to vehicle loading 3 m, non-entry

Plastic chambers and rings shall comply with Clause E2.31

Sited in domestic driveways or footways

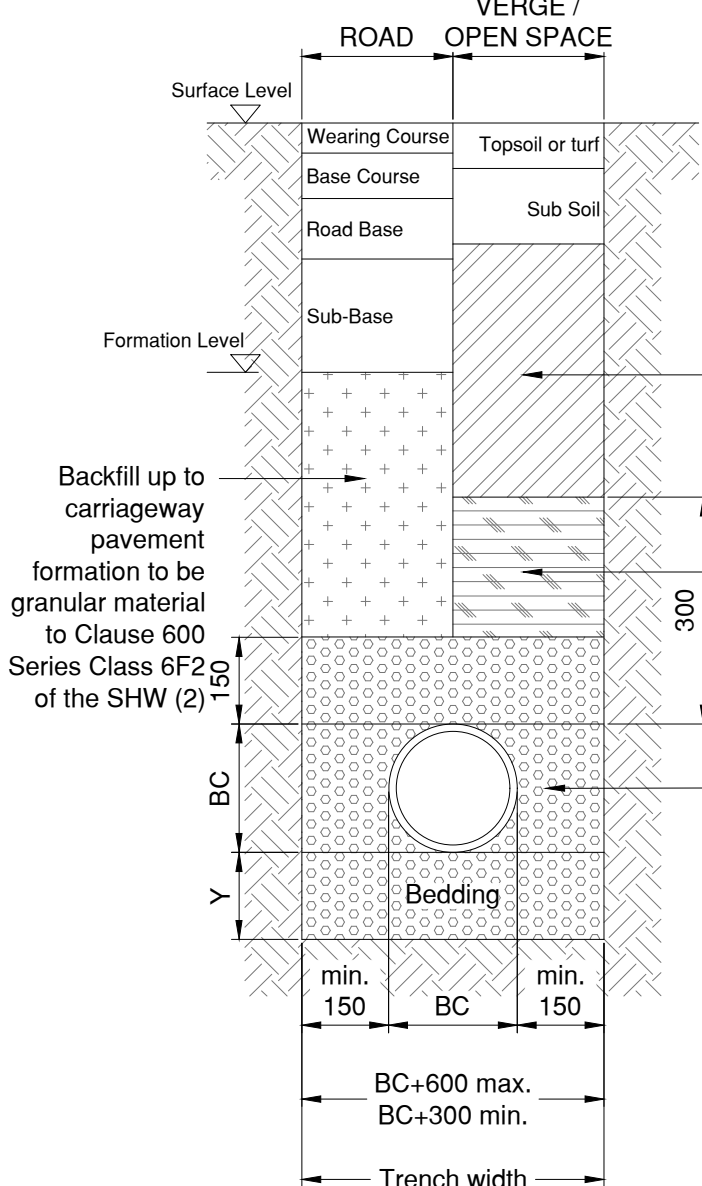


Sited in domestic gardens



ALTERNATIVE TOP DETAILS FOR LIGHT VEHICLE LOADING AND LANDSCAPED AREAS - TYPE D (Flexible material detail)

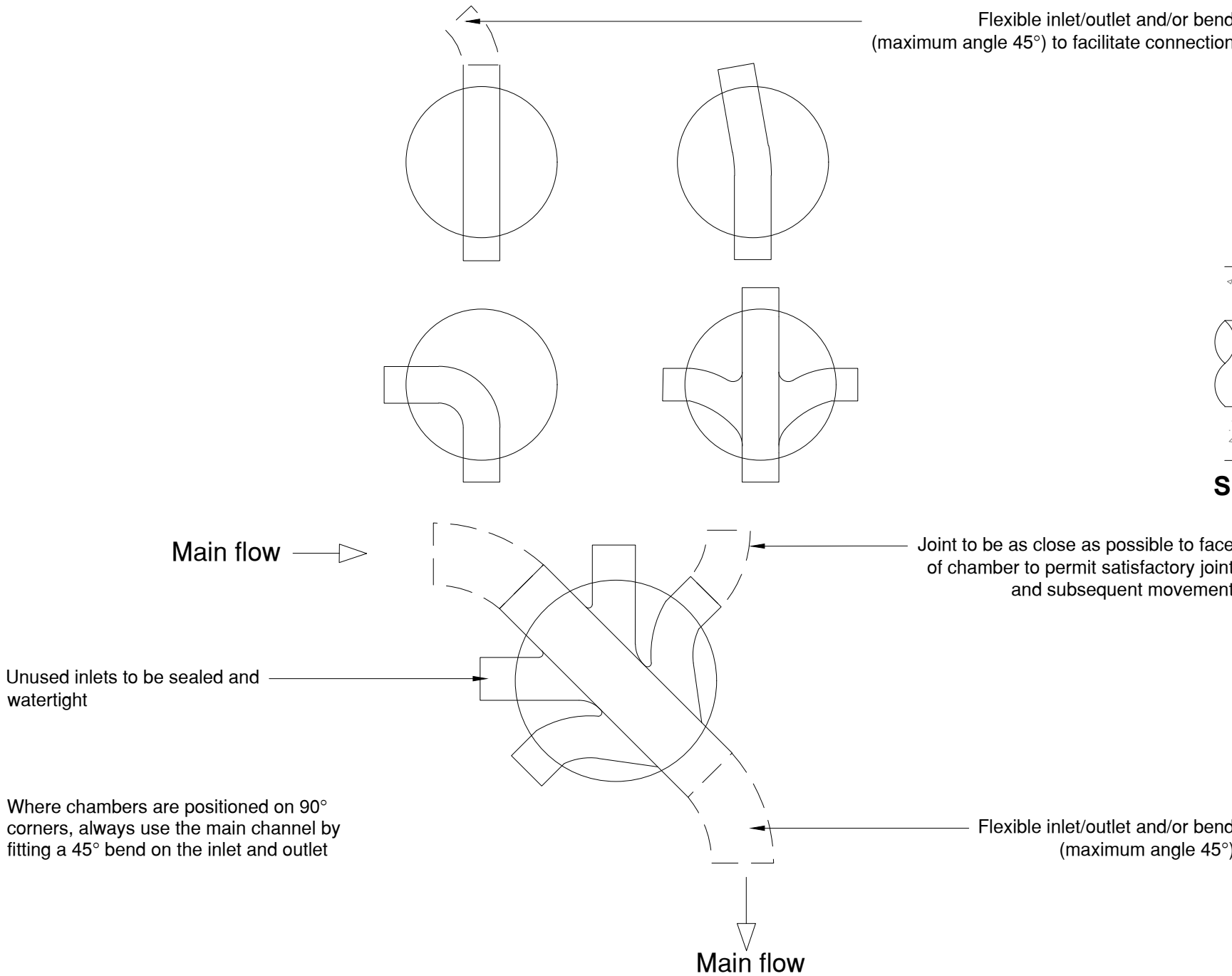
Maximum depth from cover level to soffit of pipe in areas subject to vehicle loading 3 m, non-entry



CLASS S SURROUND (360° Granular bedding and surround) More than 1200mm cover

GENERAL NOTES TO TRENCH AND BED DETAILS:

- BC = Bore Circumference = Outside pipe diameter
- Remove and replace all hard or soft spots within pipe trenches with well compacted bedding or selected backfill material. Ensure the bed beneath the pipe remains void-free, and any voids must be filled using well-compacted selected backfill material.
- The bedding and surround up to the level 300mm above the top of the barrel shall be placed equally on both sides of the pipe in layers not exceeding 150mm thick and carefully compacted for the full width of the trench with hand tools.
- The backfill material shall be deposited in layers not exceeding 150mm thick for Type 1 material and 225mm thick for backfill to Clause 505 and compacted as specified in Clause 612 of SHW using, unless other compacting equipment is required or agreed, power rammers or vibrating plate compactors.
- Power rammers shall not be used within 300mm of any part of the pipe or joint.
- Trench sheeting should be removed as the bed, surround and backfill are placed to ensure the trench is filled and compacted to the full width.
- For dimension Y, refer to table A.
- g.1. In soils that permit an even trench bottom $Y=Y_1$.
- g.2. In rock or mixed soils containing rock bands, boulders, large flints or stones or other irregular hard spots that result in an uneven trench bottom, $Y=Y_2$.
- All drains and sewers shall have watertight flexible joints.



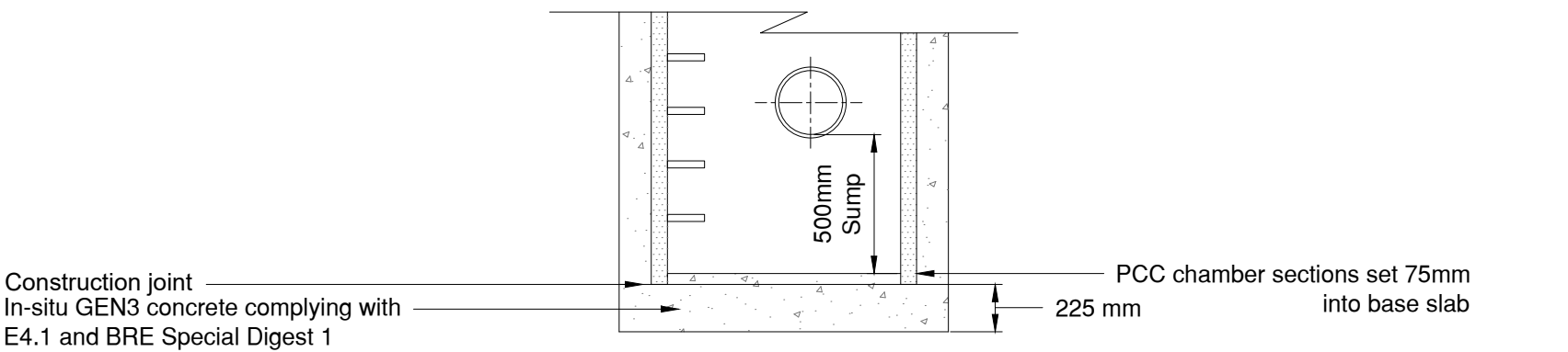
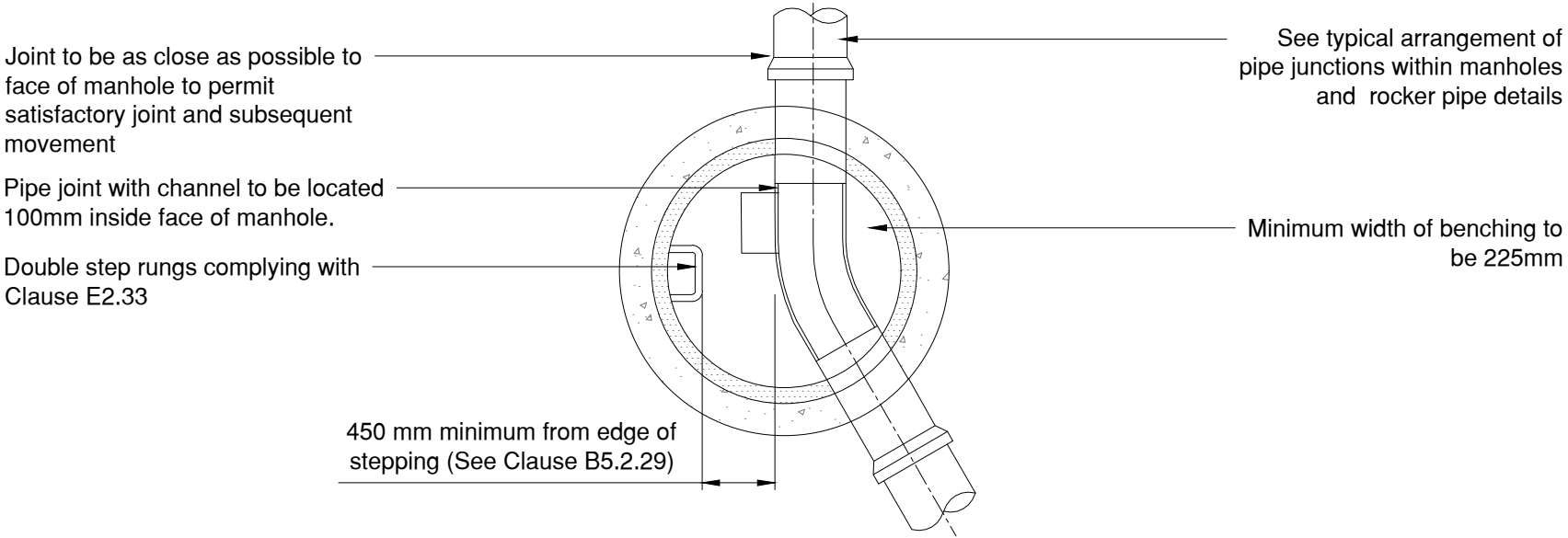
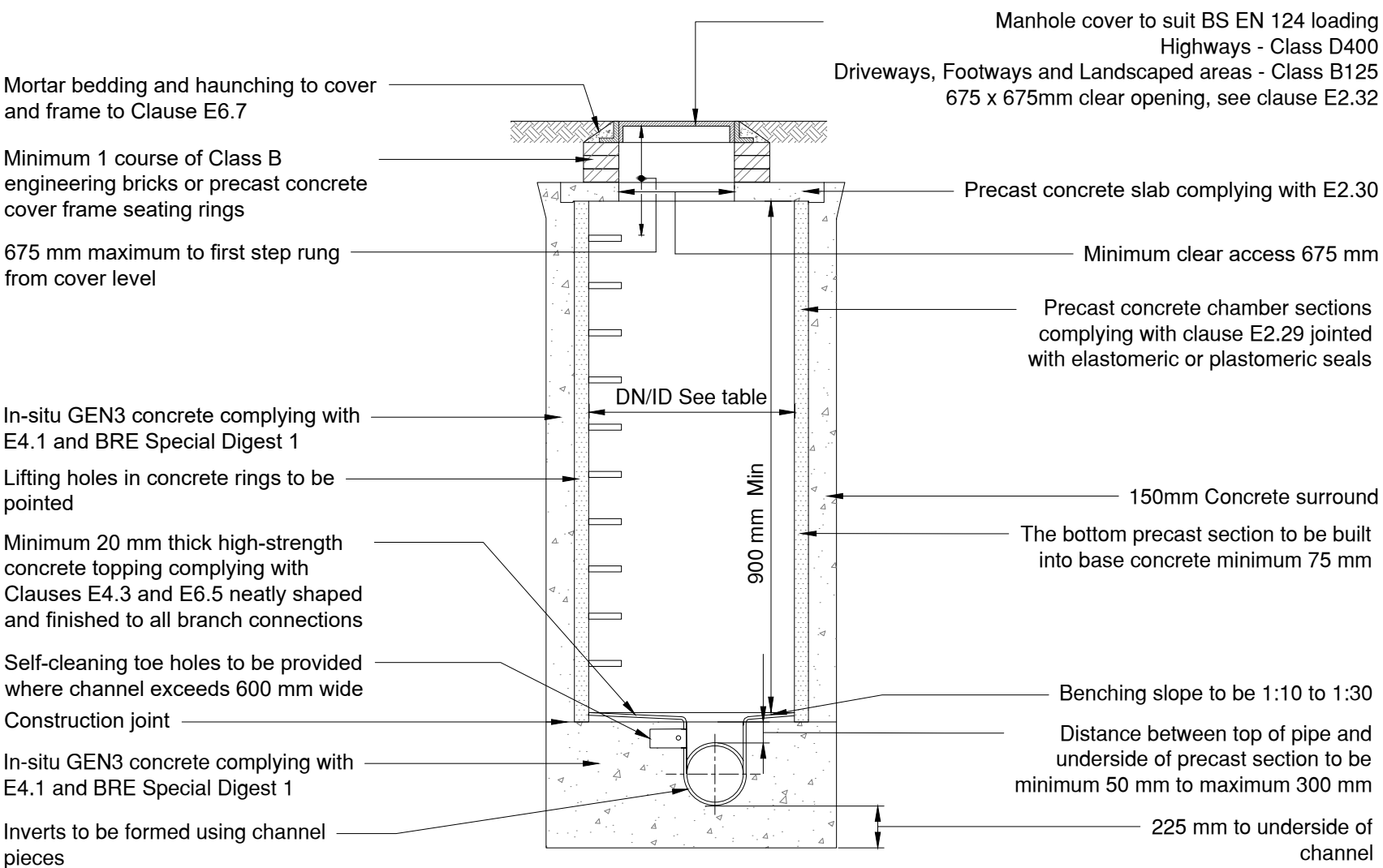
ALTERNATIVE BASE LAYOUTS FOR TYPE D CHAMBERS

Not to scale
Note: Where the access chamber is in the highway (including any footway) the Highway Authority can have specific requirements

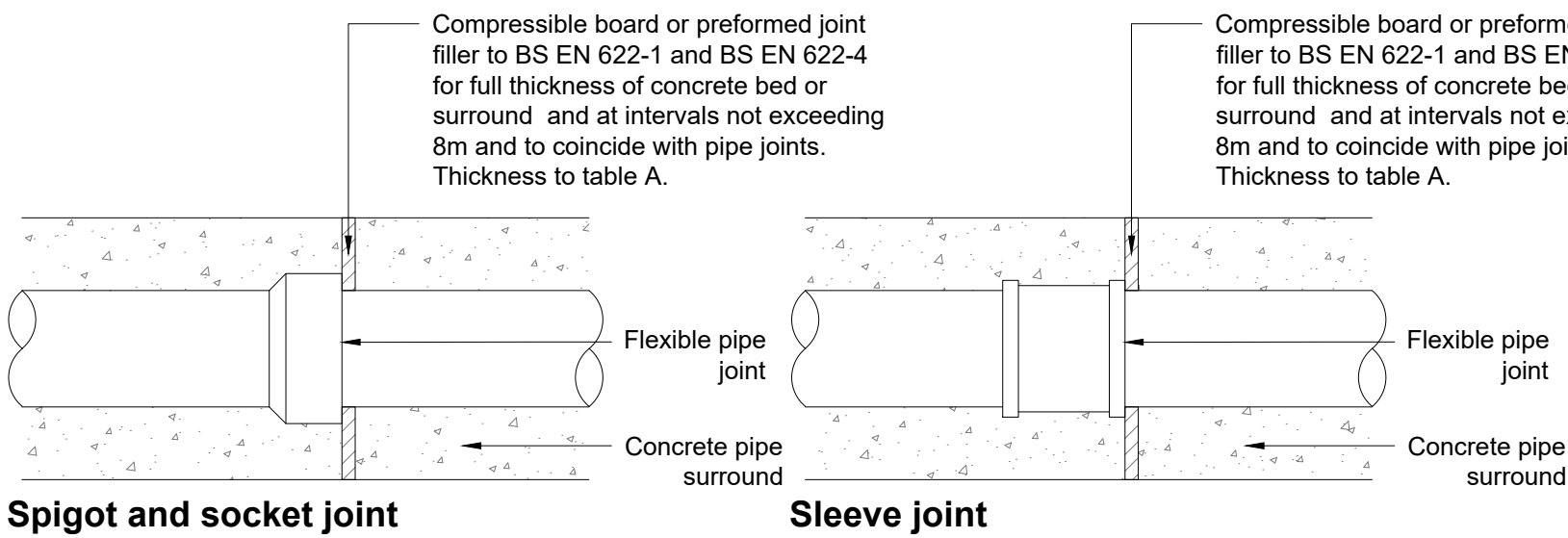
TYPICAL MANHOLE DETAILS - TYPE B

(Rigid material detail)

Depth from cover level to soffit of pipe 1.5 m to 3.0 m, man-entry



TYPICAL MANHOLE DETAILS - TYPE B WITH SUMP (CATCHPIT)



EXPANSION JOINTS FOR CONCRETE ENCASED PIPES

Nominal Diameter (mm)	Y minimum (mm)	
	Y ₁	Y ₂
100	150	200
150	150	200
200	150	200
225	150	200
250	150	200
300	150	200
350	150	200
375	150	200

NOTE:
WHERE THE DRAINAGE SCHEDULE SPECIFIES A CATCHPIT, THE BASE OF THE CHAMBER SHALL BE CONSTRUCTED WITH A 500MM DEEP SUMP INSTEAD OF A BENCHED BASE.

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NOTES:

- All levels are in metres above ordnance datum (AOD) unless otherwise stated.
- Do not scale from this drawing. Only written dimensions are to be used.
- This drawing must be read in conjunction with all other relevant documents and drawings issued by Vine CE, as listed in the final drawing register, including Architect's, Landscape Architect's and Structural Engineer's drawings and specifications.
- 150mm, 225mm and 300mm diameter pipework to be Wavin OSMAL UltraRib PVC-U corrugated pipe (or similar approved) to BS EN 13476-3 on class S bed & surround.
- Greater than 300mm diameter pipework to be concrete class M to BS 5911 on class S bed.
- Where minimum depth of cover to the pipe crown is not achievable, a reinforced concrete slab protection is to be used.
- Buried concrete to be designed to appropriate sulphate resistant design class.
- Where manhole is located within soft landscaping or private drives, B125 covers may be used.
- The sewers and drains are to be constructed in accordance with the Building Regulations, BS EN 752:2008 Drain and sewer systems outside buildings, BS EN 1610:2015 Construction and testing of drains and sewers, and the Sewerage Section Guidance.
- First pipe from either side of a chamber to be no more than 600mm long with 225mm GEN3 surround and have an articulated rocker pipe with 25mm joint filler to SHW 1015 between the GEN 3 surround and the first collar.
- All pipes entering and exiting manholes are to be connected soffit to soffit unless notes otherwise.
- In situ concrete generally to be GEN 3 designated mix.
- All in situ concrete to be thoroughly compacted.
- All covers to be stamped "FW" or "SW", as appropriate.
- Where a specific manufacturer's product or solution is referenced, refer to manufacturer to verify the construction details and the applicable notes.
- Typical construction details are not product specific and the contractor must refer to the preferred manufacturer for technical specification and installation guidance prior to commencing work.
- The Mersbrook Consulting (GEA-18426-14-69) recommends a Design Sulphate Class DS-2 and ACEC Class AC-2, which must be considered for all buried concrete.
- Promptly report any discrepancies or variances to Vine CE for timely clarification before commencing the works.**

DEPTH OF PIPE COVER

The minimum depth of pipe cover to the crown of gravity pipes without protection should be as follows:

- Domestic gardens and pathways without any possibility of vehicular access, 0.35m;
- Domestic driveways, parking areas and yards with height restrictions to prevent entry by vehicles with a gross weight in excess of 7.5 tonnes, 0.5m;
- Domestic driveways, parking areas and narrow streets without footways (e.g., mews developments) with limited access for vehicles with a gross weight in excess of 7.5 tonnes, 0.9m;
- Agricultural land and public open space, 0.9m;
- Other highways and parking areas with unrestricted access to vehicles with a gross vehicle weight in excess of 7.5 tonnes, 1.2m.

CDM NOTES:

Depth of existing services must be established prior to commencing any works. The contractor is responsible for establishing underground services following HSE Guidance Note HSG 47.

Any services that would be within the proposed construction layers must be lowered to a level below the sub-base.

T2	01.08.25	Note 4 revised.	SRV	VPI	VPI
T1	27.06.25	Initial Tender issue.	SRV	VPI	VPI
REV	DATE	DESCRIPTION:	DRN	CRD	APP
STATUS:			TENDER ISSUE		



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SOUTHERN ALLOTMENTS
WEST SUSSEX
VCE REF. 007-1004

TITLE: PRIVATE DRAINAGE
CONSTRUCTION DETAILS
SHEET 1 OF 2

SCALE AT A1:	DATE:	DRAWN:	CHECKED:	APPROVED:
NTS	27.06.2025	SRV	VPI	VPI
PROJECT NO:	DRAWING NO:	REVISION:		
519	519.1.VCE.0505	T2		