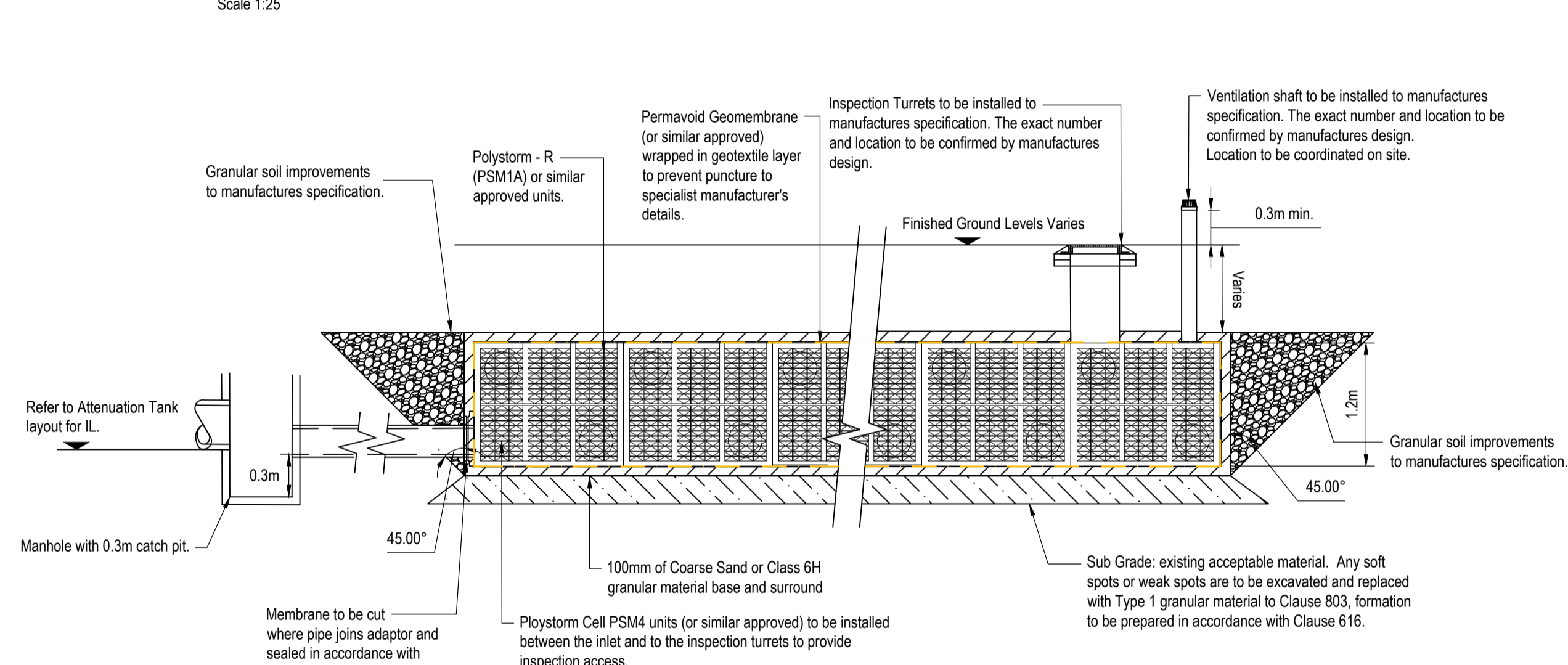


Maximum depth from cover level to invert of pipe in areas subject to vehicular loading 3m, non entry

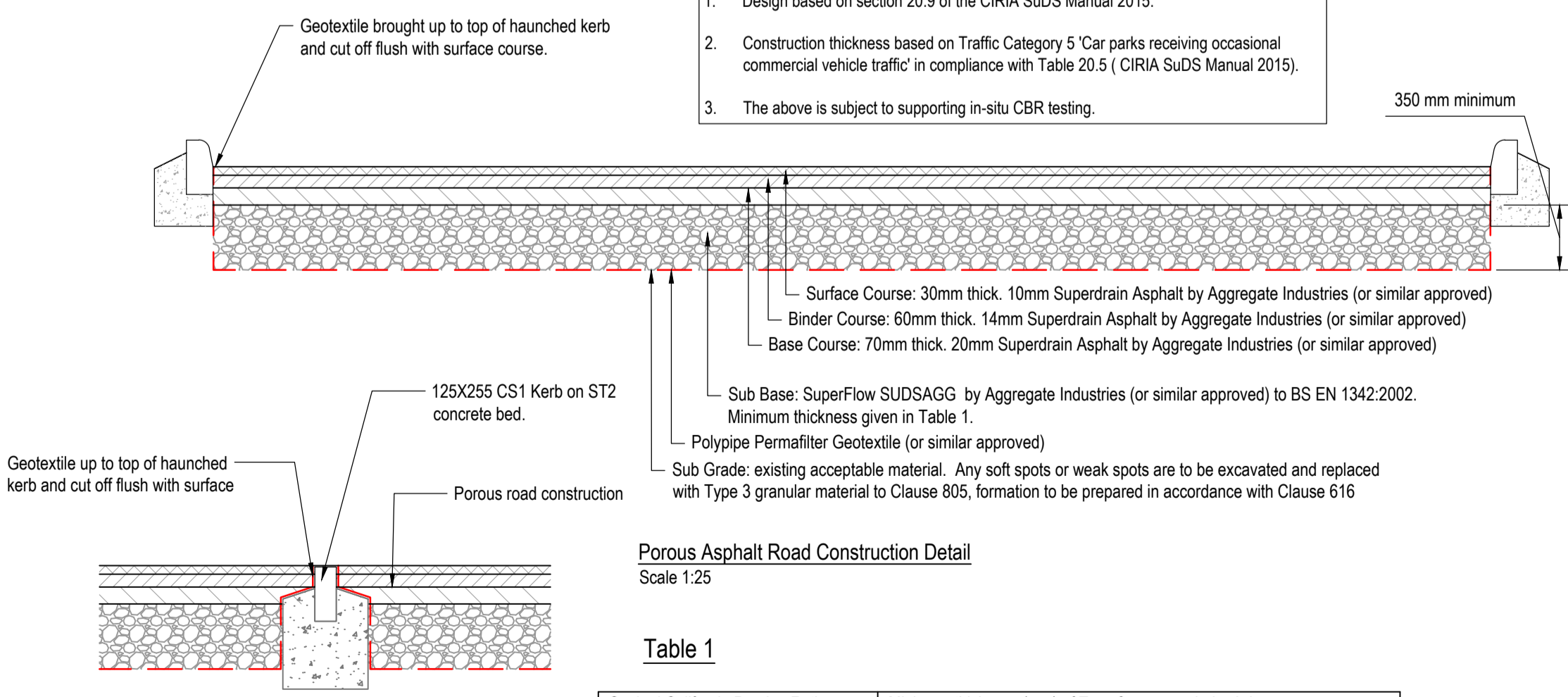
450mm Dia Inspection Chamber detail (Flexible Material) in areas subject to vehicle loading



Typical Tanked Geo Cellular Crate Detail

Not to Scale

- Design Construction note:**
- Design based on section 20.9 of the CIRIA SuDS Manual 2015.
 - Construction thickness based on Traffic Category 5 'Car parks receiving occasional commercial vehicle traffic' in compliance with Table 20.5 (CIRIA SuDS Manual 2015).
 - The above is subject to supporting in-situ CBR testing.



Porous Asphalt Road Construction Detail

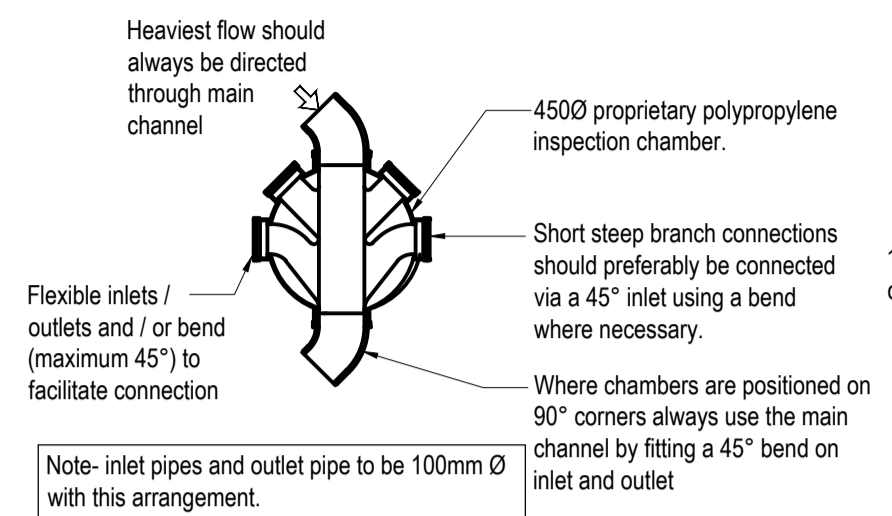
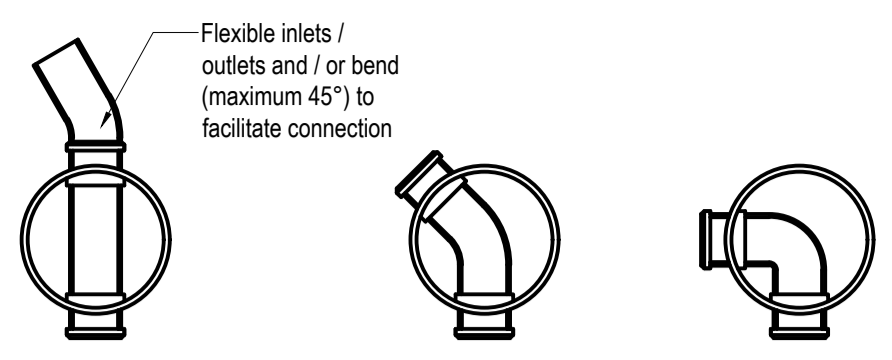
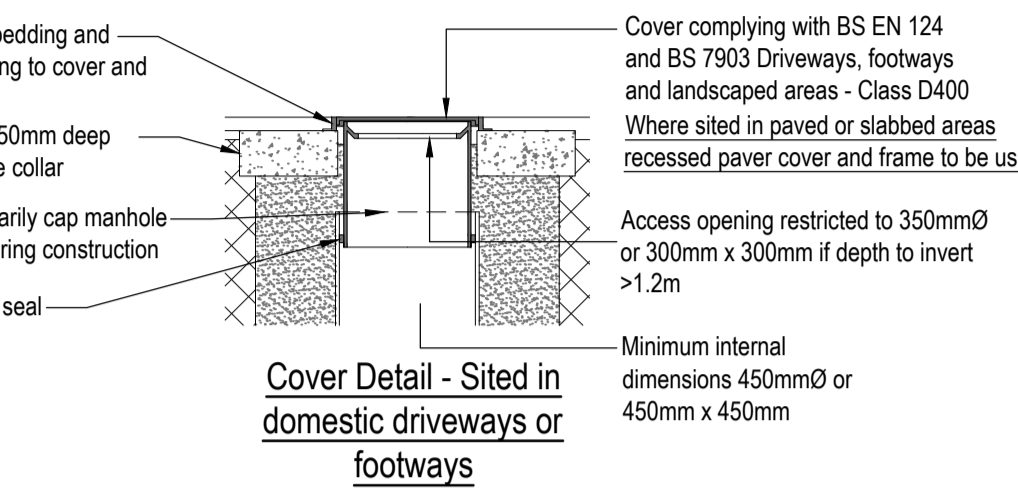
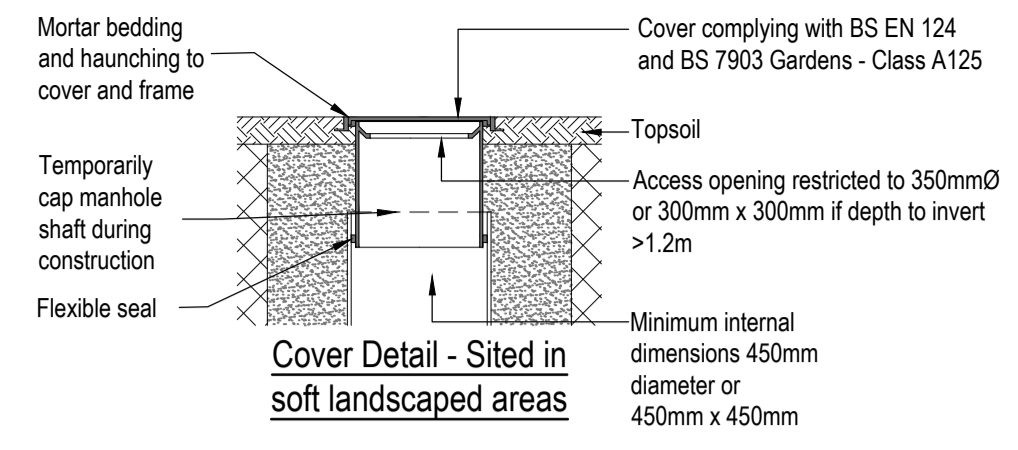
Scale 1:25

Table 1

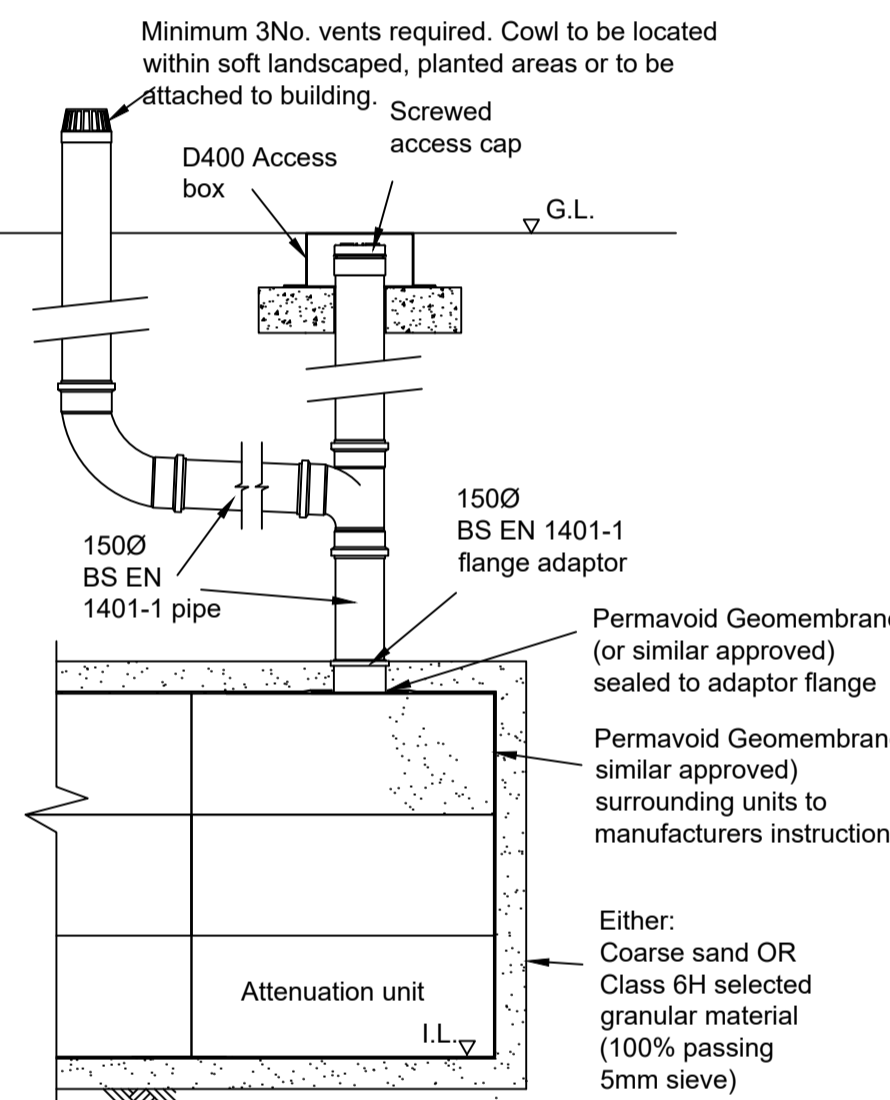
Soaked California Bearing Ratio (CBR) Values	Minimum thickness (mm) of Type 3 open graded sub-base (Consolidated in accordance with MCHW Volume 1 Clause 803, table 8/1)
Less than 2.5%	Subgrade improvement required
2.5% - 3%	450
3% - 4%	375
>4%	350



Full Height Check Dam Detail
Scale 1:25

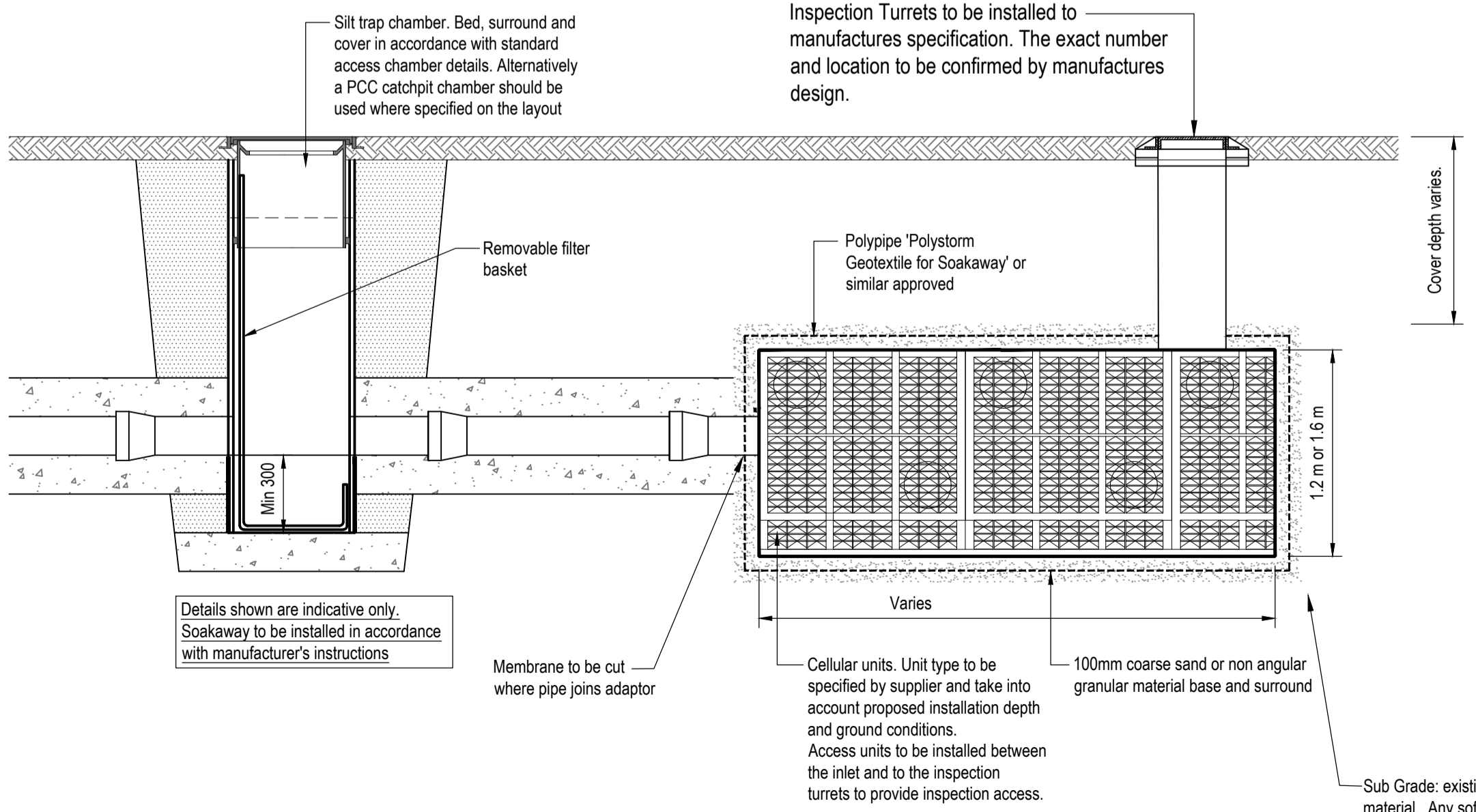


Alternative Base Layouts For 450mm Dia Inspection Chambers



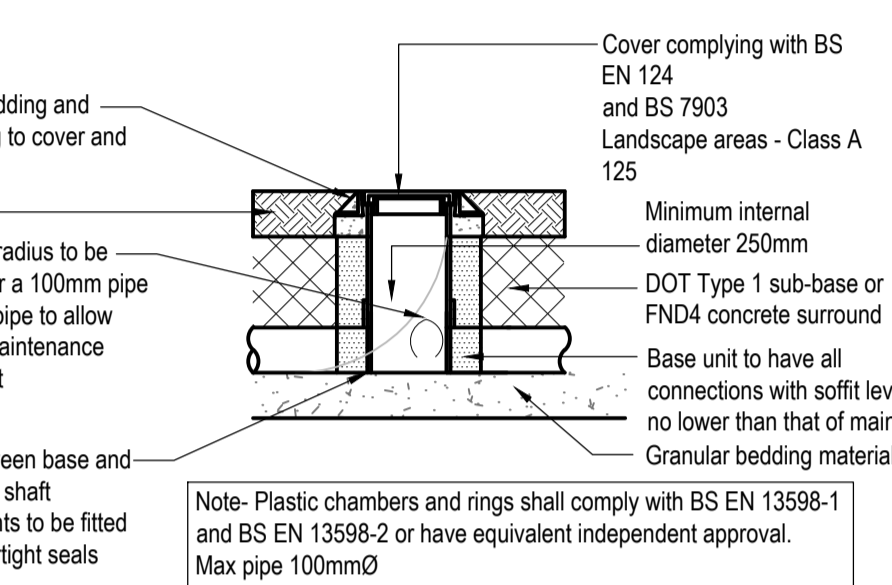
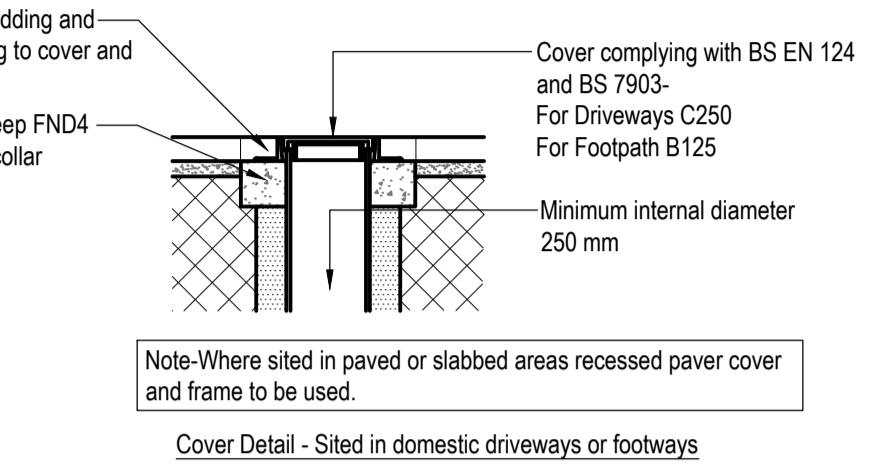
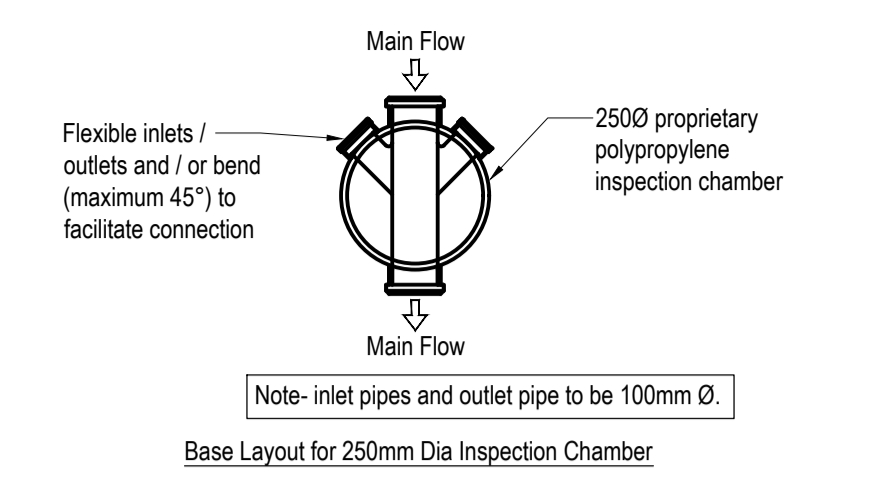
Typical Tank Vertical Vent Pipe Connection

Scale 1:25



Typical Section Through Cellular Soakaway

Scale 1:20



Maximum depth from cover level to invert of pipe 0.6 m, non entry

250mm Dia Inspection Chamber detail (Flexible Material)

Scale 1:25

Private Drainage Notes

- This drawing is to be read in conjunction with and checked against all other drawings, engineering details, specification and any structural, geotechnical or other specialist documents provided.
 - All lateral connections for house drainage shall be 100mm unless stated otherwise and must extend a minimum of 500mm behind the back of the footpath.
 - All pipes to be vitrified clay or UPVC and shall be 100mm Ø laid to a fall of 1:80 unless noted otherwise or indicated by size and invert levels. All connections when laid shall be plugged, protected as necessary and marked with a stake for future use.
 - Building drainage shall comply with BS 8301 1985, BS EN 752 and Building Regulations Part H. Inspection chambers located within garages to have double seal bolt down covers.
 - Gully top and manhole cover specification to be in accordance with BS EN 124 and located in accordance with the intended use and loading classification as described within groups 1-6:
 - This drawing is schematic for clarity only, positions of pipe runs and manholes may vary on site due to site conditions.
 - Connections to pre-formed inspection chamber bases should ensure the main channel is used in all cases. High velocity discharges (e.g. from SVPs) should use the main channel where practicable.
 - Cover and invert levels are indicative and may vary on site. In any case the following minimum cover to depth of cover to the crown of pipes without protection shall 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 weight in excess of 7.5 tonnes - 1.2m
- Note: any protection required where drainage does not comply with a-e above shall be as follows:-
- Vitrified clay pipes - provide a 100mm min. thick concrete bed and surround (instead of class 'S' bedding) and a 13mm thick compressible filler at each joint.
 - UPVC pipes - provide a concrete bridging (in addition to class 'S' bedding) in accordance with appendix A15, Building Regulations part 'H'.
Note: in-situ concrete used in connection with a) and b) above shall be standard mix GEN3 in accordance with BS 5328.

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- Where this drawing has been issued in electronic .dwg format, it has been done so in good faith. JNP Group do not take any responsibility for any inaccuracies in the electronic data, which should be checked against the paper (or .pdf) drawing issue. Any apparent discrepancies should be immediately reported to JNP Group. The electronic .dwg file should not be assumed to be scale and should not be used for 'overlaying', setting out or checking of any third party information. All dimensions should be taken from the paper (or .pdf) version of the drawing. Electronic drawings may contain third party information. JNP Group take no responsibility for this information, which should be checked against the originators paper drawing(s).
- All dimensions are millimetres (mm), and levels are in metres (m) unless noted otherwise and should be checked on site prior to construction/fabrication.
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- This drawing should only be used for construction if the drawing status is "Construction". JNP Group takes no responsibility for construction works undertaken to drawings that are not marked with this status.

Rev.	Date	Description	Drn / Crnk / Appl
P02	18/06/2025	Attenuation tank detail added. Access details for future maintenance of both attenuation tank and soakaway tanks added.	SH / LC / LC
P01	16/04/2025	First Issue.	SH / LC / LC

Subsidiary

S3 - Suitable for Review & Comment

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Client: **Halstead Homes (Yorkshire) Ltd**

Job: **Marsh Lane, Shepley**

Title: **Drainage Construction Details (Sheet 2 of 3)**

Classification: **FI_60_20**

Scale @ A1: **AS SHOWN**

Project - Originator - Volume/System - Level/Location - Type - Discipline - Number

B26074 - JNP-XX-XX-DR-C-3111

Revision: **P02**