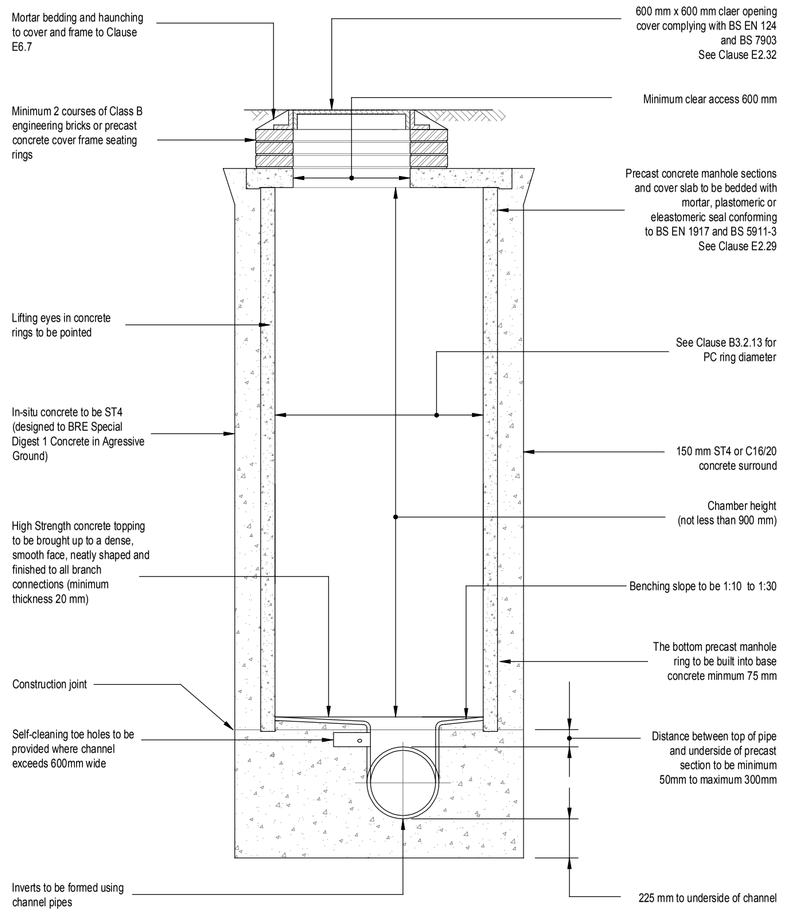
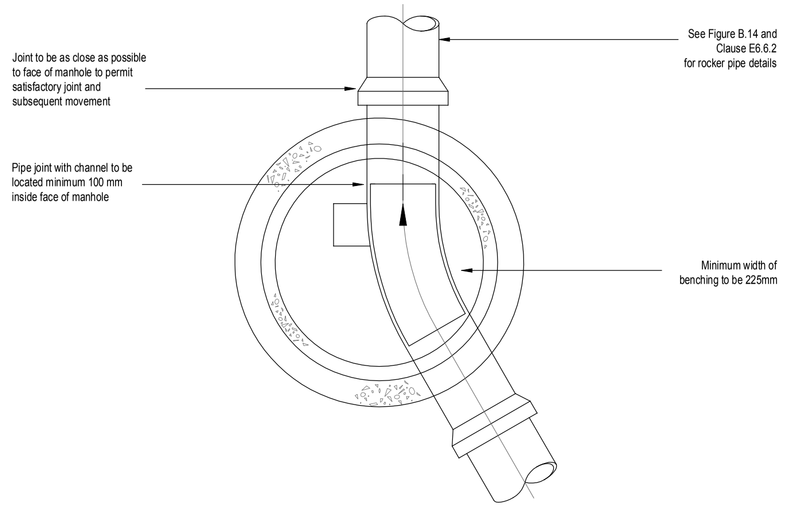
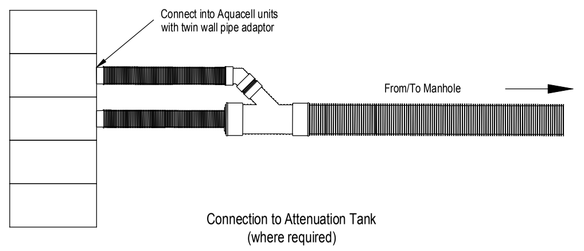
TYPICAL MANHOLE DETAIL - TYPE 2

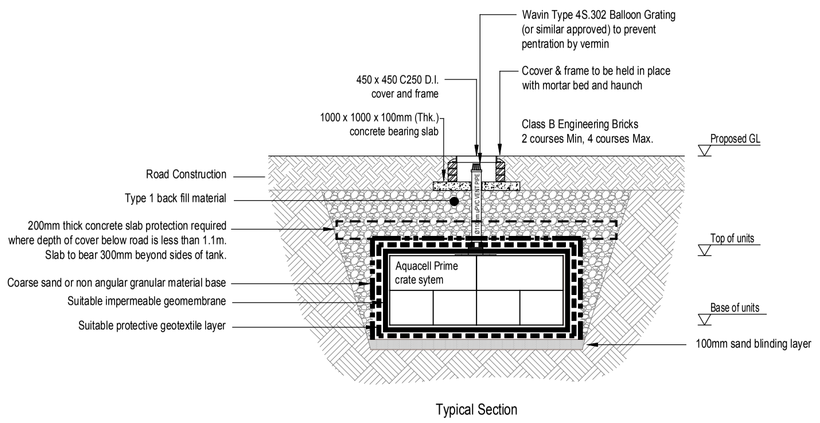
Maximum depth from cover level soffit of pipe 3.0 m







Connection to Attenuation Tank
(where required)



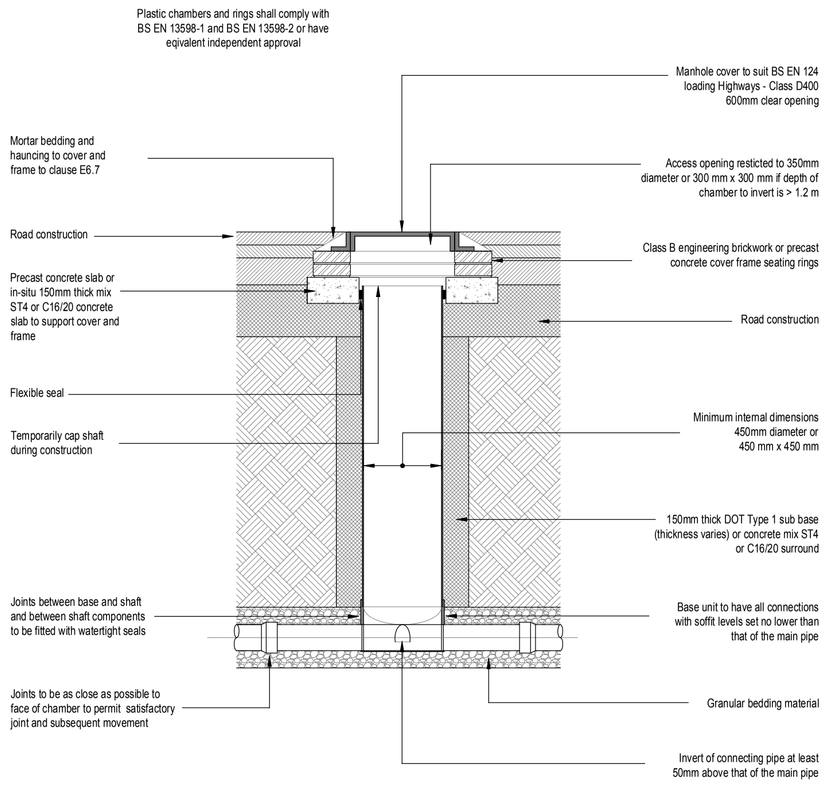
Typical Section

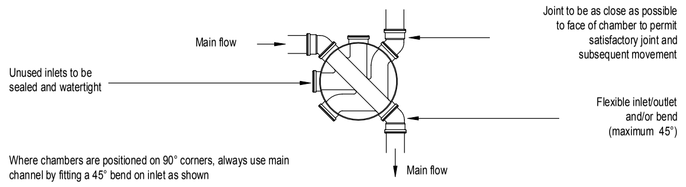
AQUACELL ATTENUATION TANK DETAILS

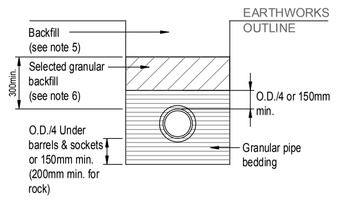
TYPICAL INSPECTION CHAMBER DETAIL- TYPE 3

(Flexible material detail)

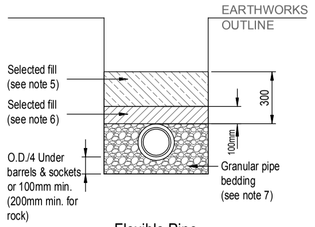
Maximum depth from cover to soffit level of pipe in areas subject to vehicle loading 3 m, non-entry



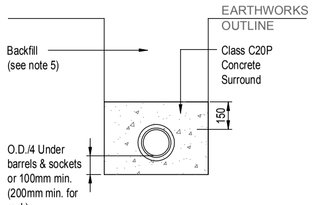




Bed S
Bedding Factor 2.2



Flexible Pipe
Bedding Detail
(For pipes laid at depths greater than 0.6m in fields and 0.9m in light and main roads)



Flexible Pipe
Concrete Bedding Detail
Type CS
(For pipes laid at depths less than 0.6m in fields and less than 0.9m in light and main roads)

BEDDING NOTES:

1. All pipes shall be laid in trenches in accordance with Part H of the building regulations.

2. All trenches shall have vertical sides for full depth. Exceptionally, with prior approval of the Engineer, trenches may be battered above a point not less than 300mm above the top of the pipe

3. All bedding classes requiring concrete shall have a 12mm expansion joint constructed for the full width and depth of the concrete and shall be placed at pipe joints not more than 5.0 metres apart

4. Reinstatement of trenches in existing carriageways shall comprise of the same materials and thicknesses to underside of wearing course as for new carriageway construction unless otherwise described in the Contract

5. Selected fill or granular fill free from stones larger than 40mm.

6. Selected fill: free from stones larger than 40mm, lumps of clay over 100mm, timber, frozen material & vegetable matter.

7. Granular Material - For rigid pipes the granular material should conform to BS EN 1610 Annex B Table B.15 and should be single size material or graded material from 5mm up to a maximum size of 10mm for 100mm pipes, 14mm for 150mm pipes, 20mm for pipes from 150mm up to 600mm Ø and 40mm pipes more than 600mm Ø. Compaction maximum 0.3 for class N or B and, 0.15 for class F.

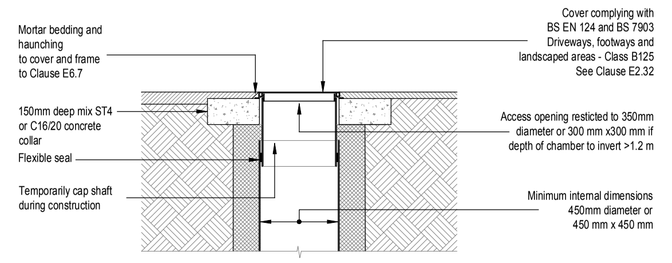
8. All works and materials to be in accordance with Water Authorities Association "Sewers for Adoption" 7th edition

BEDDING DETAILS

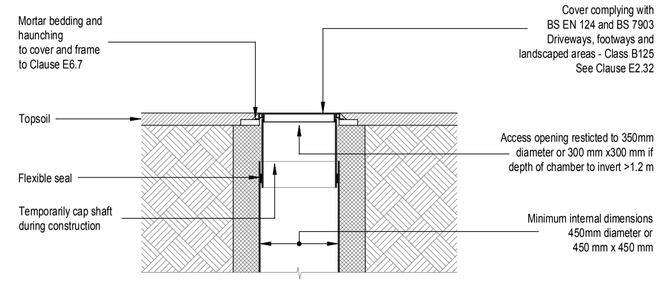
ALTERNATIVE TOP DETAILS FOR LIGHT VEHICLE LOADING AND LANDSCAPED AREAS - TYPE 3

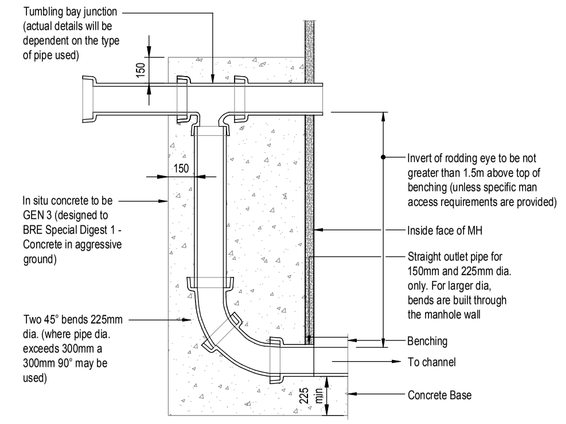
Plastic chambers and rings shall comply with BS EN 13598-1 and BS EN 13598-2 or have eqivalent independent approval

Sited in domestic driveways or footways



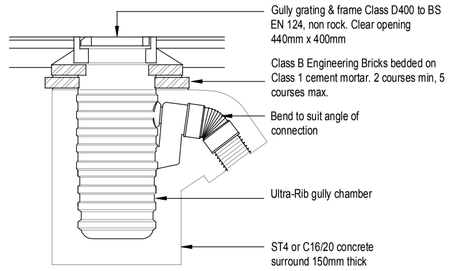
Sited in domestic gardens





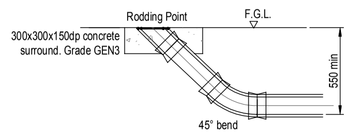
TYPICAL RAMPED BACKDROP DETAIL

Note: Steeper gradients are preferred to the use of backdrops
Note: Where back drop is not excessive a 45° drop pipe may be used.
Type of backdrop to be agreed with Undertaker.

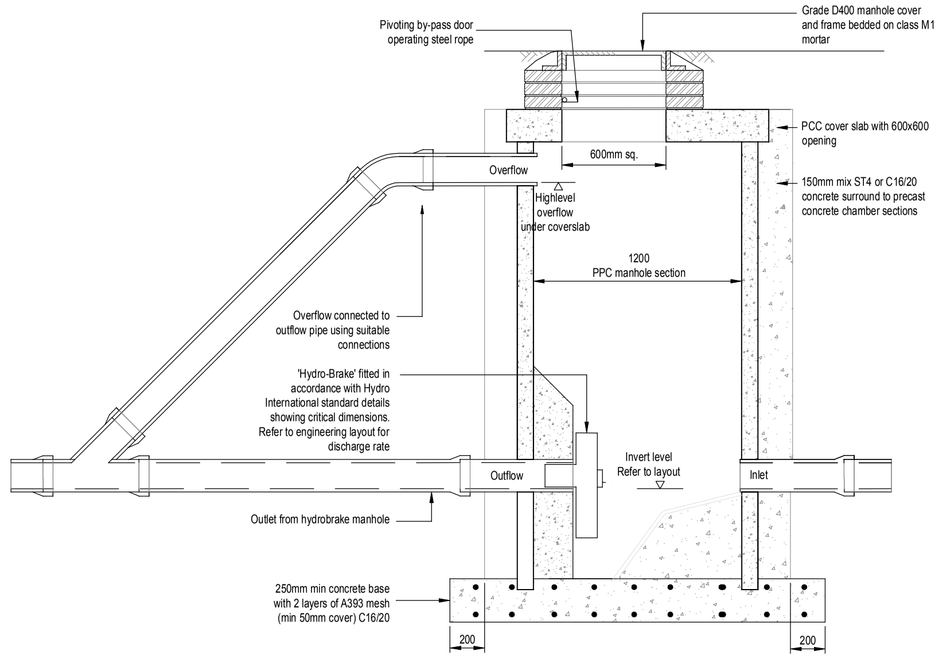


ROAD GULLY DETAIL

Outlet pipe under carriageways or in verges less than 2m from edges of carriageways, are to have a minimum cover of 600mm and class CS bedding. Outlets greater than 2m from carriageway edges under verges are to have a minimum cover of 450mm.



RODDING EYE



HYDROBRAKE MANHOLE

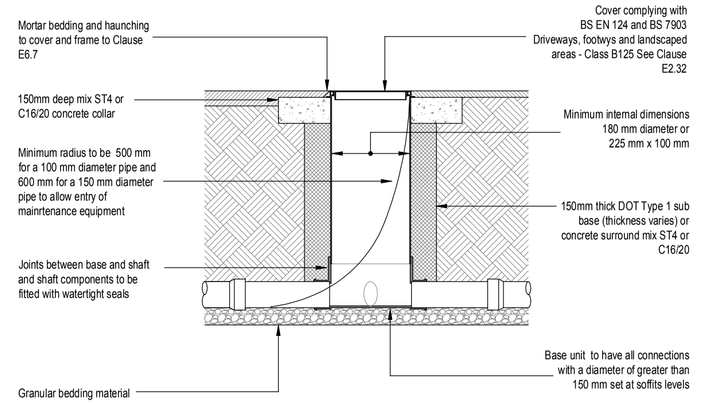
TYPICAL INSPECTION CHAMBER DETAIL - TYPE 4

(Flexible material construction)

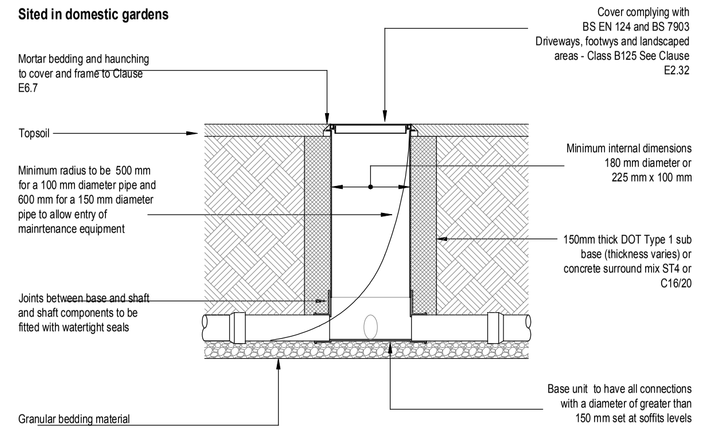
Maximum depth from cover level to soffit of pipe 2 m, non entry

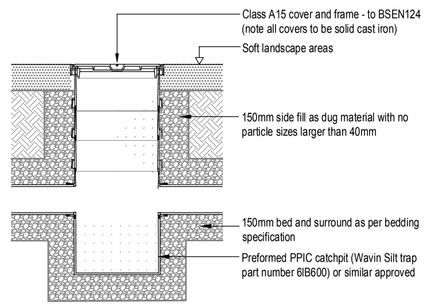
Plastic chambers and rings shall comply with BS EN 13598-1 and BS EN 13598-2 or have eqivalent independent approval

Sited in domestic driveways/paved areas



Sited in domestic gardens





SILT TRAP DETAIL

Rev.	Date	Details	Initials
B	22.01.19	Drawing status amended.	KAM
A	14.01.19	Initial issue	MA

Drawing Status
CONSTRUCTION

Project
Castle Avenue, Havant

Client
PERSIMMON

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www.eschersilverman.com

Drawing Title
Engineering Details
Drainage Details

Drawn	Checked	Scales	Paper Size	Date
MA	KAM	NTS	A1	12.18

Job No.	Drawing No.	Revision
ES1857	501–02	B

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