Infiltration Basin (Total Infiltration)

Basin has been designed for :-
- 30 year storm return period, to achieve a half empty time within 24hrs
- 100 year + 40% climate change storm return period, to safely accommodated storm flows without flooding on or off site.

An estimated moderate rate of 0.0198m/hr was used in the design. Actual permeability rate to be based on permeability values determined on site by localised testing.

At least 300mm depth of vegetative topsoil with a good contaminant attenuation potential must be provided to allow plant growth, over Min. 300g/m² non-woven geotextile membrane protection wrapped around all sides of sub base, Terram T1000 or equivalent. Installed with a min. overlap of 200mm.

Undisturbed earth base of excavation. excavated area to be smooth, firm and level, free from lumps and debris and suitable to carry anticipated loads.

Example Infiltration Basin 'X'

Basin 'X' sizing:-

	Depth	Area
Base	0.00m	56m²
Top	0.50m	103m²

Side slopes 1 in 3 gradient

Example Basin Levels :-
104.70 = Base
105.10 = Max water level / Weir overflow
105.20 = Bank top

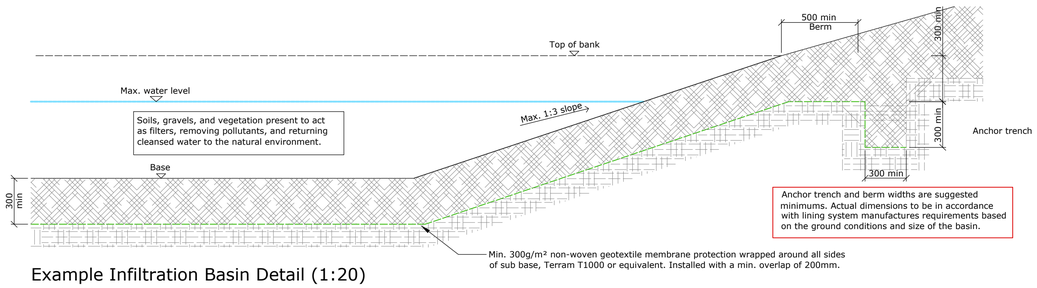
Example Infiltration Basin 'Y'

Basin 'Y' sizing:-

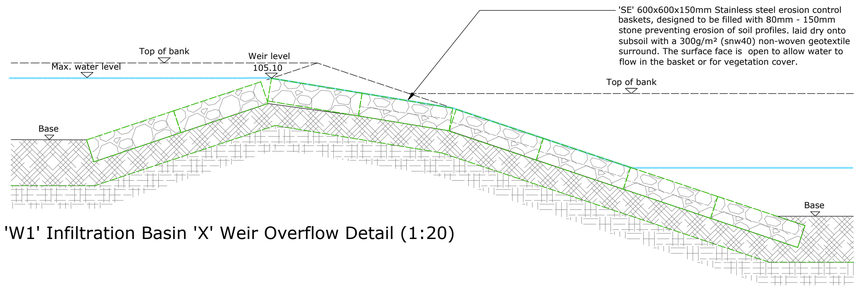
	Depth	Area
Base	0.00m	72m²
Top	0.80m	163m²

Side slopes 1 in 3 gradient

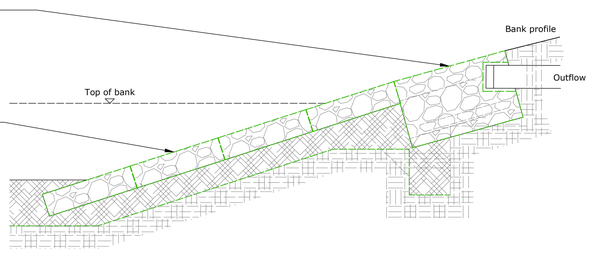
Example Basin Levels :-
104.20 = Base
104.54 = Max water level
105.00 = Bank top



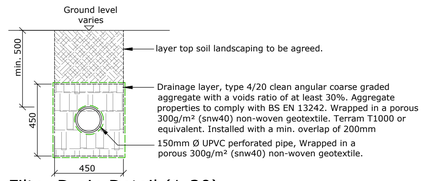
Example Infiltration Basin Detail (1:20)
Total Infiltration



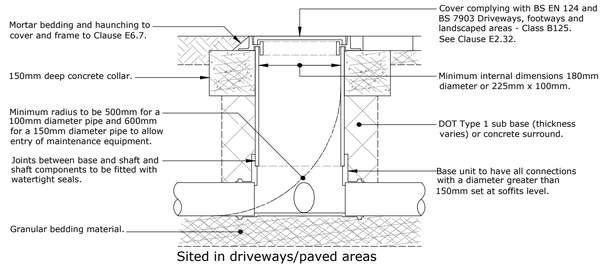
'W1' Infiltration Basin 'X' Weir Overflow Detail (1:20)



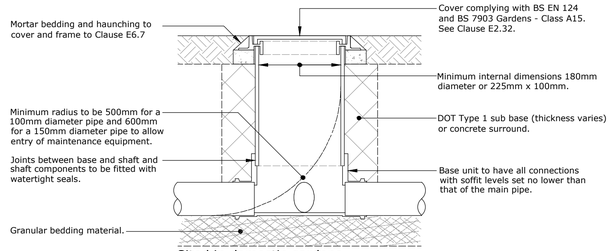
Indicative Erosion Control and Out Flow Diffuser Detail (1:20)
Installed in strict accordance with manufacturers requirements.



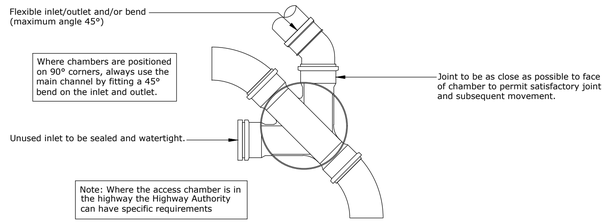
Filter Drain Detail (1:20)
Trench should be sited at least 5m from any building.



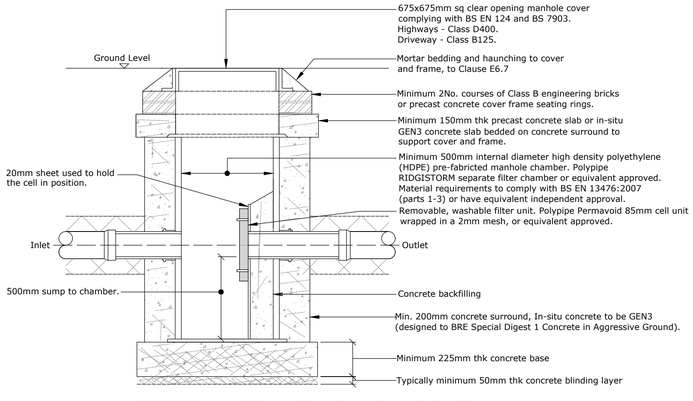
Sited in driveways/paved areas



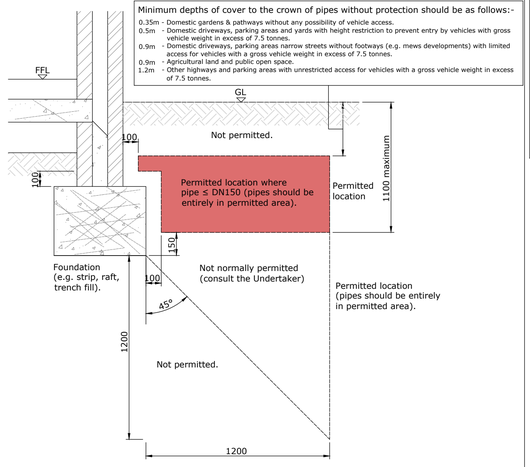
Sited in domestic gardens



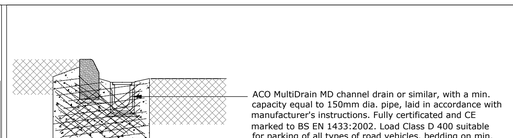
'IC4' Typical Inspection Chamber Detail - Type 4 (Flexible material detail) (nts)
Maximum depth from cover level to soffit of pipe 2 m, non-entry
Plastic chambers and rings shall comply with BS EN 13598-1 and BS EN 13598-2 or have equivalent independent approval
Figure B.21



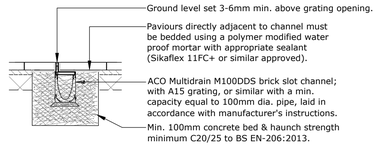
'SFC' Sump Filter Chamber Detail (nts)
Located upstream of attenuation, retention and infiltration systems, Silt Traps isolate silt and other particles, preventing ingress into sustainable drainage systems (SuDS).
General arrangement drawing only. Contact Polypipe for site specific fabrication drawings, subject to Structural Engineers approval.



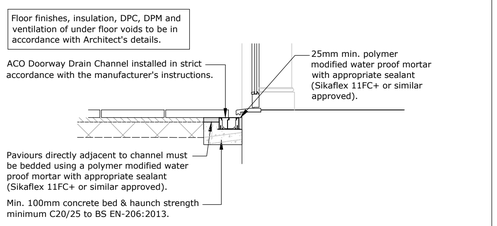
Permitted Location of Sewers and Lateral Drains in Proximity to Building (1:20)
Figure B.1



Indicative Road Channel Drain Detail (1:20)



Indicative Paving Slab Slot Drain Detail (1:20)
Domestic gardens & pathways without any possibility of vehicle access.



Indicative Threshold Drain Detail (1:20)
Patio door drain channel similar detail.

THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ANY OTHER RELEVANT DRAWINGS AND THE CONSTRUCTION MANUAL.
THE BUILDER SHOULD CHECK ALL LEVELS AND SITE DIMENSIONS BEFORE WORK STARTS AND NOTIFY SCANDIA OF ANY DISCREPANCY
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SITE
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CUCKFIELD, HAYWARDS HEATH
WEST SUSSEX, RH17 5BT

TITLE
PROPOSED DRAINAGE DETAILS

C/No.	O/No.	SCALE
033022		1:20, 1:10@A1

DRAWN	DRAWING NUMBER
CC	DP02 REV

DATE
03/26