S302 - RIDGISTORMCheck
Orifice Plate Flow Control Chamber
CL 190.70
IL 188.86
Contact Polypipe for details on diameter of chamber
Orifice Plate of 50mmØ

F102
450Ø PPIC
CL 190.75
IL 189.84

F1.001 1m 110Ø 1:80 PVCu

Tricel Nova UK10 or similar
CL 190.70
250mm Riser
Inlet IL: 189.92 (110Ø)
Outlet IL: 189.85 (110Ø)
Must be installed in strict accordance with manufacturers details and specifications

S4.002 1.0m 100Ø 1:59 PVCu

Geocellular Attenuation Tank
2m x 3m x 0.8m deep
CL 190.70
IL 188.91
Top of Tank 189.71
Volume 4.80m³
Storage Volume 4.56m³
Cover Depth 0.99m
Geocellular storage tank specified on storage capacity only through hydraulic calculations. Appointed manufacturer to complete structural calculations and buoyancy checks prior to installation as well as minimum cover requirements. Any anchoring requirements and venting requirements to be specified by appointed manufacturer.

F1.000 1m 110Ø 1:80 PVCu

F101
450Ø PPIC
CL 190.64
IL 189.93

S4.001 11.9m
100Ø 1:60 PVCu

S300
450Ø PPIC
CL 189.90
IL 189.20

Note
Pipes running underneath proposed sunken fire pit to comply with part H of building regulations ensuring concrete surround is present were minimum cover depths can't be achieved.

S401
450Ø PPIC
CL 190.10
IL 189.11

Existing Manhole into Culvert system running along adjacent highway. Invert levels TBC On site prior to construction. Capacity check Required

S4.000 11.7m 100Ø 1:30 PVCu Concrete Surround

S3.000 5.4m 100Ø 1:60 PVCu

S400
450Ø PPIC
CL 190.20
IL 189.50

Graded cobbled paving away from dwelling into depression

Locally lowered ground

Depression in ground
1:3 Side Slopes
See diagram for detail

S3.000 Perforated 22.2m 100Ø 1:100 PVCu

F100
900Ø PPC
Pumping Chamber
CL 189.75
IL 189.05

Locally raised ground

Perforated Pipe Layed at 1:100 Flowing North
IL189.42

S100
450Ø PPIC
CL 189.18
IL 187.88

S1.000 7.3m 100Ø 1:56 PVCu

S101
450Ø PPIC
CL 189.05
IL 187.75

Graded cobbled paving towards Drainage Channel Adjacent to boundary wall. Drain to be laid at 1:70 Gradient

S1.001 1.0m 100Ø 1:29 PVCu

S2.000 7.8m 100Ø 1:52 PVCu

S200
450Ø PPIC
CL 189.04
IL 187.74

S1.002 1.0m 1:59 PVCu

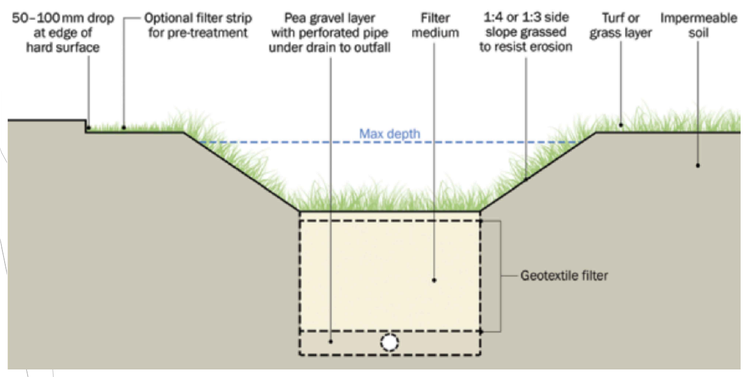
S102 - RIDGISTORMCheck
Orifice Plate Flow Control Chamber
CL 188.90
IL 187.53
Contact Polypipe for details on diameter of chamber
Orifice Plate of 30mmØ

S1.003 10.6m 100Ø 1:59 PVCu Concrete Surround

Geocellular Attenuation Tank
4.5m x 5m x 0.4m deep
CL 189.05
IL 187.59
Top of Tank 187.99
Volume 9m³
Storage Volume 8.55m³
Cover Depth 1.06m
Geocellular storage tank specified on storage capacity only through hydraulic calculations. Appointed manufacturer to complete structural calculations and buoyancy checks prior to installation as well as minimum cover requirements. Any anchoring requirements and venting requirements to be specified by appointed manufacturer.

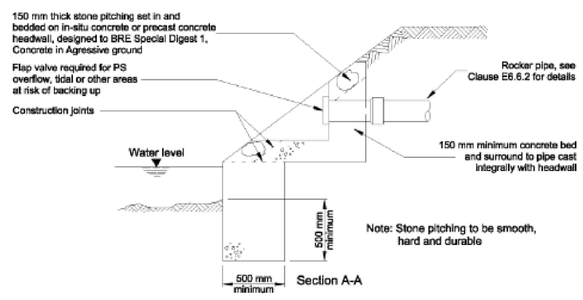
Outfall South
Stone built headwall in accordance with SSG Figure C 1
CL 188.07
IL 187.35

Water exceedence will flow into the adjacent field



Example of use of Perforated Pipe and ground depression

Figure C 1
Typical detail of outfall to watercourse
Suitable for outfall pipes of less than 350 mm



SSG Figure C1 Headwall

Key

- Surface Water Polypropylene Inspection Chamber (PPIC)
- Surface Water Un-plasticised Poly Vinyl Chloride Pipe (PVCu)
- Perforated Filter Drain
- Foul Water Polypropylene Inspection Chamber (PPIC)
- Foul water pipe Un-plasticised Poly Vinyl Chloride Pipe (PVCu)
- Rising Main
- Existing Surface Water Culverted Watercourse
- Exceedance Route
- Geocellular Attenuation Tank
- Tricel Nova UK10 Package Treatment Plant
- Depression in ground of landscaped area
- ACO Civildrain C100 0.0 (11.00m)
- DC
- Stone Built Headwall

DO NOT SCALE THIS DRAWING | A1

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1. Before construction commences, the setting out Engineer shall ensure that all setting out information is mutually compatible with all the drawings and documents provided by the designers. Where information is apparently contradictory or ambiguous, the design Engineer and/or the Architect is to be informed immediately. Thomas Consulting will accept no liability for setting out errors where work is constructed to incorrect information.
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REVISIONS

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
A	23/08/23	Updated Northern drainage network based off client feedback	CS	JP

DRAWING STATUS: FOR PLANNING

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DRAWING TITLE: DRAINAGE LAYOUT

DATE CREATED:	DRAWING SCALE:	DRAWN BY:	CHECKED BY:	QA CATEGORY:
10/08/2023	1:100	CS	JP	

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