FOUL WATER MANHOLE SCHEDULE

Manhole Ref.	Cover Level (m)	Invert Level (m)	Backdrop Invert Lvl (m)	Manhole Depth (m)	Manhole Type	Manhole Ø (mm)	Cover/Frame Grade	Remarks
MHF1.0	18.400	17.685	-	0.715	Type 4	300	A15	-
MHF1.1	18.290	17.479	-	0.811	Type 4	300	B125	-
MHF1.2	18.290	17.388	-	0.902	Type 4	300	B125	-
MHF2.0	18.400	17.750	-	0.650	Type 4	300	B125	-
MHF3.0	18.400	17.750	-	0.650	Type 4	300	B125	-

FOUL WATER PIPE SCHEDULE

Pipe Ref.	Pipe Length (m)	Pipe Ø (mm)	Pipe Material	Gradient (1 in ?)	Bedding	Remarks
PNF1.0	10.34	100	UPVC	50	Class S	-
PNF1.1	4.55	100	UPVC	50	Class Z	Concrete bed and surround to pipe
PNF1.2	17.20	100	VC	50	Class Z	Concrete bed and surround to pipe
PNF2.0	8.33	100	UPVC	37.7	Class Z	Concrete bed and surround to pipe
PNF3.0	8.42	100	UPVC	27	Class Z	Concrete bed and surround to pipe

SURFACE WATER MANHOLE SCHEDULE

Manhole Ref.	Cover Level (m)	Invert Level (m)	Backdrop Invert Lvl (m)	Manhole Depth (m)	Manhole Type	Manhole Ø (mm)	Cover/Frame Grade	Remarks
MHS1.0	18.400	17.900	-	0.500	Type 4	300	A15	-
MHS1.1	18.290	17.705	-	0.585	Type 4	300	B125	-
MHS1.2	18.290	IN=17.470 SL=17.020	-	IN=0.820 SL=1.270	Type 3 Silt Trap	500	B125	Sump 450mm deep
MHS2.0	18.290	17.790	-	0.500	Type 4	300	A15	-
MHS3.0	18.300	17.800	-	0.500	Type 4	300	A15	-
MHS3.1	18.290	17.567	-	0.723	Type 4	300	B125	-
MHS3.2	18.290	17.310	-	0.980	Type 4	300	A15	-
MHS3.3	18.290	IN=17.154 SL=16.704	-	IN=1.136 SL=1.586	Type 3 Silt Trap	500	B125	Sump 450mm deep

SURFACE WATER PIPE SCHEDULE

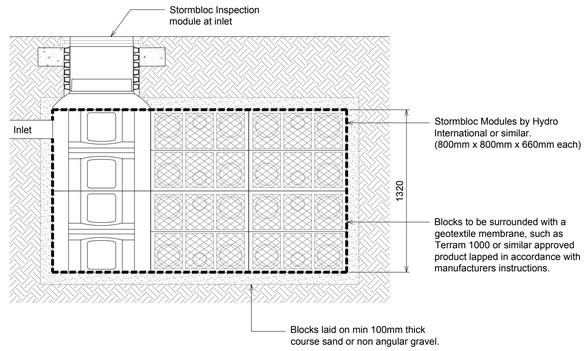
Pipe Ref.	Pipe Length (m)	Pipe Ø (mm)	Pipe Material	Gradient (1 in ?)	Bedding	Remarks
PNS1.0	11.65	100	UPVC	60	Class S	-
PNS1.1	13.99	100	UPVC	60	Class Z	Concrete bed and surround to pipe
PNS1.2	10.78	150	UPVC	20	Class S	-
PNS2.0	11.39	100	UPVC	35.6	Class S	-
PNS3.0	13.94	100	UPVC	60	Class S	-
PNS3.1	15.94	100	UPVC	60	Class Z	Concrete bed and surround to pipe
PNS3.2	9.36	100	UPVC	60	Class S	-
PNS3.3	12.96	150	UPVC	20	Class S	-

SURFACE WATER SOAKAWAY SCHEDULE

Soakaway Ref.	Cover Level (m)	Inlet Level(s) (m)	Inlet Depth(s) (m)	Remarks
SA1	17.750	16.930	0.820	Soakaway constructed using Hydro International Stormbloc units (Block dimensions: L=0.8m x W=0.8m x D=0.66m) Soakaway Details Length = 2.4m (3 Blocks) Width = 2.4m (3 Blocks) Depth = 1.32m (2 Blocks) Inlet to be located at high level into soakaway structure. Soakaway blocks to have min 600mm cover to ground.
SA2	17.400	16.500	0.900	Soakaway constructed using Hydro International Stormbloc units (Block dimensions: L=0.8m x W=0.8m x D=0.66m) Soakaway Details Length = 2.4m (3 Blocks) Width = 2.4m (3 Blocks) Depth = 1.32m (2 Blocks) Inlet to be located at high level into soakaway structure. Soakaway blocks to have min 600mm cover to ground.

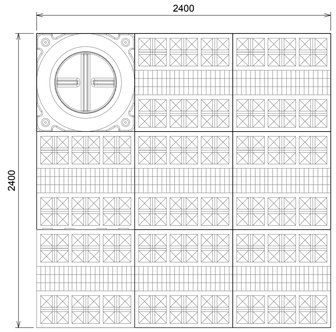
Cellular Soakaway Section

scale 1:25



Plan on Cellular Soakaway

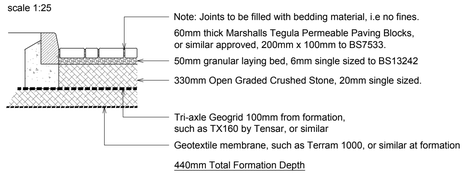
scale 1:25



DESIGN PARAMETERS (see Windes Calcs)
100 Year Return + 30% Climate Change
Percolation test result ~ 0.3m/hr

Permeable Access Drive

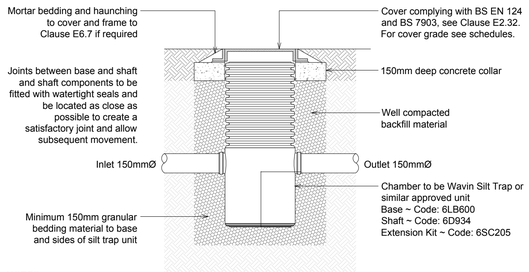
scale 1:25



Type 3 Silt Trap Detail

scale 1:25

- **Sited in soft landscaped areas**

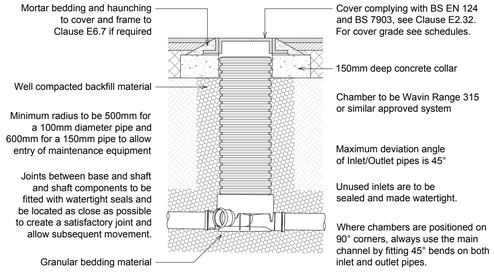


NOTES:
1. Plastic chambers and rings shall comply with BS EN 13598-1 and BS EN 13598-2 or have equivalent independent approval.
2. Backfill to be well compacted around shaft of chamber.

Typical Type 4 Chamber Detail (Non-Entry)

scale 1:20

- **Sited in domestic driveways / paved areas**
- **Max depth from cover to soffit of pipe 2.0m**

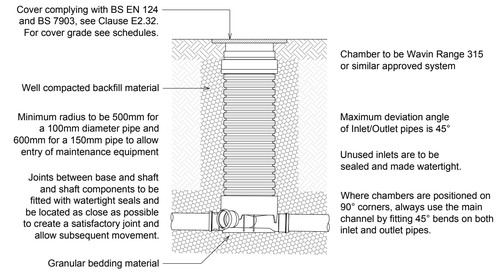


NOTES:
1. Plastic chambers and rings shall comply with BS EN 13598-1 and BS EN 13598-2 or have equivalent independent approval.
2. Backfill to be well compacted around shaft of chamber.

Typical Type 4 Chamber Detail (Non-Entry)

scale 1:20

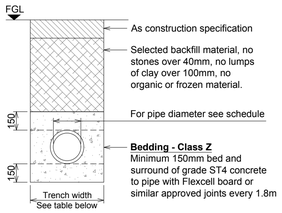
- **Sited in domestic gardens / landscaped areas**
- **Max depth from cover to soffit of pipe 2.0m**



NOTES:
1. Maximum pipe diameter of inlets 100/110mm.
2. Plastic chambers and rings shall comply with BS EN 13598-1 and BS EN 13598-2 or have equivalent independent approval.
3. Backfill to be well compacted around shaft of chamber.

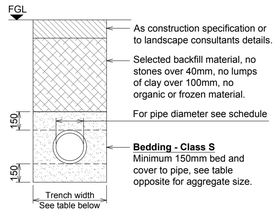
Pipe Bedding - Class Z

Areas subject to vehicle loadings.
Less than 1.2m cover to pipe.



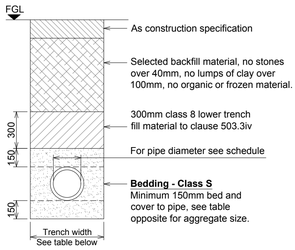
Pipe Bedding - Class S

Areas not subject to vehicle loadings.
Use in private gardens, landscaped areas etc.



Pipe Bedding - Class S

Areas subject to vehicle loadings.
Greater than 1.2m cover to pipe.



PIPE BEDDING MATERIAL - CLASS S

Pipe Ø (mm)	Suitable Materials: (Aggregate to BS 882)
100	10mm nominal single sized aggregate
150	10 to 14mm nominal single sized aggregate
225 to 525	10 to 14mm or 20mm nominal single sized aggregate
Over 525	10, 14 ,20 or 40mm nominal single sized crushed rock

TRENCH WIDTH

Pipe Ø (mm)	Trench Width (mm)
100	450
150	450
225	600
300	600
375	750
450	750
525	900
600	900
750	1200
900	1350
1050	1500

Pipe surround material shall where required, be placed and compacted over the full width of the trench in layers not exceeding 150mm before compaction, to a finished thickness of 300mm above the crown of the pipe.

Where excavations have been supported and the supports are removed they shall be withdrawn progressively as backfilling proceeds in a manner that minimises the danger of collapse, all voids formed behind the supports are to be carefully filled and compacted.

Pipe jointing surfaces and components shall be kept clean and free from extraneous matter until the joints have been made or assembled, care should be taken to ensure that there is no ingress of grout or other material into the joint after the joint has been made.

Pipes should be cut in accordance with the manufacturers recommendations to provide a clean square profile without splitting or fracturing the pipe wall and to ensure minimal damage to any protective coatings, where necessary, the cut ends of pipes shall be formed to the tapers and chamfers suitable for the type of joint to be used.

NOTES

- The Contractor should check all dimensions on site.
- It is the Contractors responsibility to ensure compliance with building regulations and current codes of practice.
- Drawings cannot take into account any drains or underground works not locatable by visual survey of the site.
- Commencement of any building works prior to full building regulation approval is entirely at the clients risk.

Rev	Description	Date
02	Soakaway re-sized following receipt of percolation test	06/06/2017
01	Details revised following unit configuration change.	10/01/2017
00	First issue to client	18/07/2016

PROJECT
Braymore House
Queens Avenue
Canterbury

CLIENT
Building Design Studio

tridax
Design Office, Suite 3, Honeywood House, Whitfield, Dover, Kent, CT16 3EH
Tel: 01304 820777

DRAWING
Drainage Details
Sheet 1

SCALES: As Noted
DATE: 18/07/2016
SIZE: A1

STATUS
FOR APPROVAL

Dwg No.: **EMC-2016-94-04**
REV: 02

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