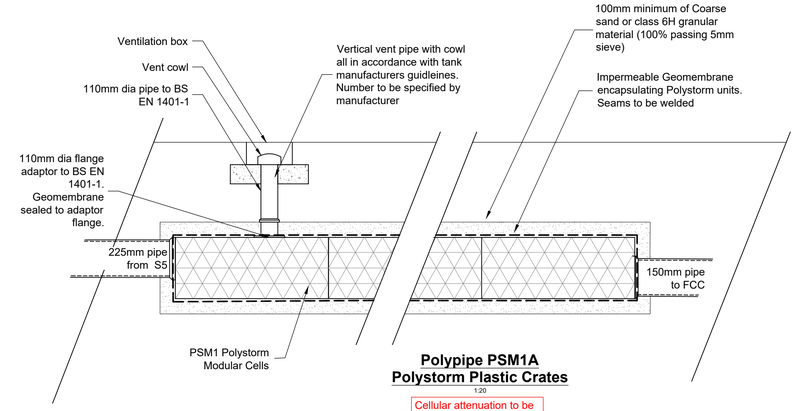
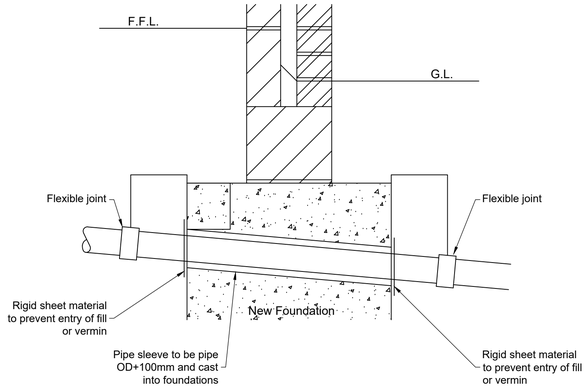


Polypipe PSM1A Polystorm Plastic Crates

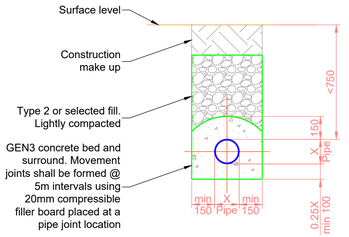
1:20

Cellular attenuation to be installed to manufacturers specifications



Pipe Through Foundation

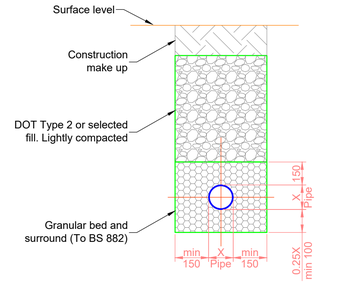
1:20



Typical Pipe Bedding With Concrete Bed and Surround

1:20

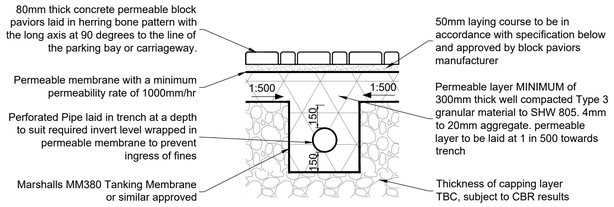
GEN3 concrete bed and surround to be used under paved areas where the depth between the finished construction level and the Barrel of the drain is less than 750mm.



Typical Pipe Bedding With Granular Bed and Surround

1:20

Granular bed and surround to be used where concrete bed and surround are not required.



Type C Permeable Paving Areas based on CBR ≥ 5% and Cars and Light Vans

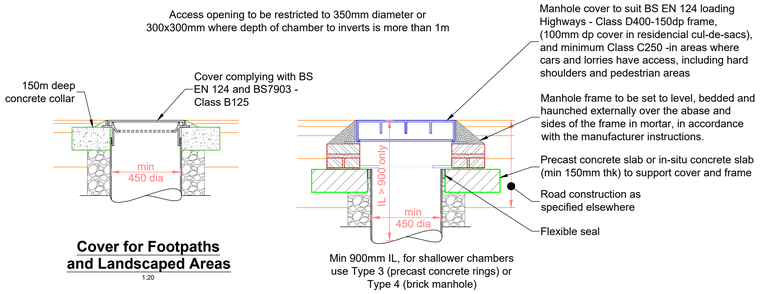
1:20

Capping layer thickness Type C Permeable Paving				
CBR Value	Open Graded Crushed Rock or MOT Type 1		Capping Material	
	Without M15 Grid	With M15 Grid	Without M15 Grid	With M15 Grid
1%	300	175	600	350
2%	175	125	350	225
3%	125	100	225	150
4%	100	n/a	150	n/a
5%	n/a	n/a	n/a	n/a

Table based on Marshalls capping structural design guide

Capping Layer for Permeable Paving Surface

1:20



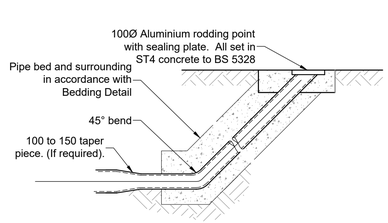
Cover for Footpaths and Landscaped Areas

1:20

Cover for Roads and Carparks

1:20

Min 900mm IL, for shallower chambers use Type 3 (precast concrete rings) or Type 4 (brick manhole)



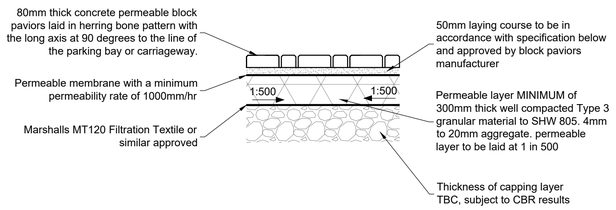
Rodding Eye Detail

1:20

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

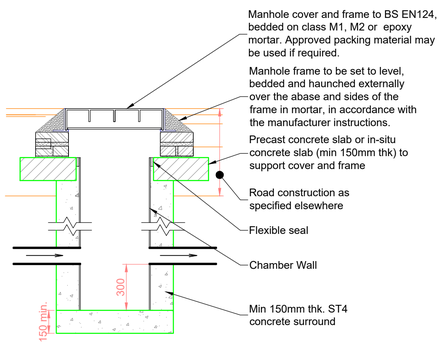
Polypropylene Inspection Chamber (PPIC) Detail

1:20



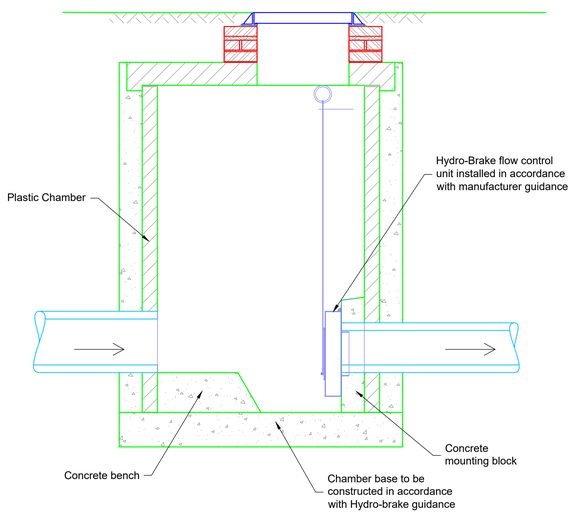
Type A Permeable Paving Areas based on CBR ≥ 5% and Cars and Light Vans

1:20



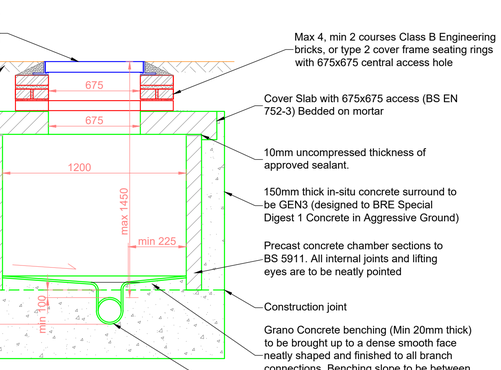
Typical Catchpit Detail

1:20



Typical Hydro-brake Flow Control Chamber

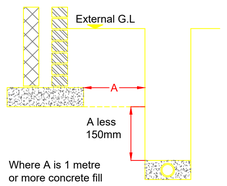
1:20



Typical Manhole Detail

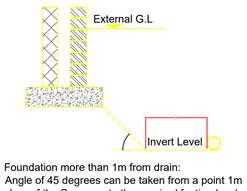
Type E - Depth to soffit 1.0 - 1.5m

1:20



Pipe Runs Near Building

1:20



Building Within 3m of a Drain

1:20

SAFETY,HEALTH & ENVIRONMENTAL HAZARD INFORMATION BOX.

The hazards noted below are in addition to the normal hazards and risks faced by a competent contractor when dealing with the types of works detailed on this drawing.

CONSTRUCTION RISKS:

- Deep Trenches
- Unforeseen Services
- Leptospirosis

Notes:

1. DO NOT SCALE FROM THIS DRAWING.
2. All dimensions are in millimetres Unless Noted Otherwise (u.n.o.)
3. Drawing is to be read in conjunction with all relevant architect's drawings. Any inconsistencies should be reported to PRP immediately.
4. All levels and dimensions are to be checked on site before any work commences.
5. The Health and Safety at Work act is to be complied with at all times. Attention is drawn to the wearing of hard hats, reflectorised clothing, and the use of any other required safety equipment.
6. Print in colour

Drainage:

1. The position, line, level and diameter of all existing drainage apparatus should be confirmed on site prior to the commencement of the works. Any discrepancies should be reported to PRP immediately.
2. The connection of foul and surface water drainage to the existing public sewer system shall be subject to the approval of the water authority
3. For positions of all rainwater pipes & foul outlets refer to Architect's drawings.
4. Drainage designed in accordance with the Sewerage Sector Guidance, Design and Construction Guidance ("the Code") Approved Version 2.0, 10 March 2020.
5. All joints between precast manhole components shall have a minimum uncompressed thickness of 10mm of proprietary bitumen or resin mastic sealant.
6. Storm & foul branch connections are to be laid at gradients of between 1:10 & 1:80
7. All in-situ concrete shall be minimum grade GEN3.
8. Precast concrete cover & reducing slabs to be heavy duty reinforced concrete to BS 5911.
9. Rising mains shall be black MDPE SDR11 as WI 4-32-03 & joints & fittings to be in accordance with WI 4-32-04. Other approved pipe materials to be in accordance with their relevant BS.
10. Manhole covers & frames shall be manufactured in cast iron or ductile iron & shall comply with requirements of BS EN 124 & shall be kite marked or equivalent.
11. All completed work shall be suitably protected from damage by construction work. Damaged drainage will not be accepted. It is recommended that no heavy loading or underground work is permitted above or near unprotected drainage, and that dumpers, trucks, fork lifts or other heavy vehicles are not driven along or near pipe runs.
12. Inspection chambers, and flow control units are to be installed strictly in accordance with manufacturer guidance and instructions
13. All drainage works to be constructed to Building Regulations Part H and PRP specification

Rev	Date	Description	By / Chk
P1	26/09/2024	Issued for comments	VSP/ DE

PRP
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Client: Springbourne Homes Ltd

Architect: Hayward Architects

Project:
Proposed Housing Development
The Coppice
Burbage

Title: Drainage Construction Details

Status: **PRELIMINARY**

Engineer:	VSP	Date:	September 2024
Drawn:	VSP	Scales @ A1:	1:20
Checked:	DE		
Project No:	82907	Drg No: 104	Rev: P1

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