

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:

- Sinking unknown services
- Deep trenches
- Leptospirosis

MAINTENANCE / CLEANING RISKS:

- 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, reflective clothing, and the use of any other required safety equipment.

- Drainage:
1. Invert levels of existing manholes to be checked on site prior to commencing any drainage works

2. For positions of all rainwater pipes & foul outlets refer to Architect's drawings.

3. All joints between precast manhole components shall have a minimum uncompressed thickness of 10mm of proprietary bitumen or resin mastic sealant.

4. Storm & foul branch connections are to be laid at gradients of between 1:10 & 1:30

5. All in-situ concrete shall be minimum grade GEN3.

6. Precast concrete cover & reducing slabs to be heavy duty reinforced concrete to BS 591 SDR11 as MW 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.

8. Manhole covers & frames shall be manufactured in cast iron or ductile iron & shall comply with requirements of BS EN 124 & shall be able marked or equivalent.

9. Where there is no intermediate manhole between the start of a surface water pipe run and the soakaway the gradient of the run shall be not less than 1 : 60.

10. All completed work shall be suitably protected from damage by construction work. Damaged drainage will not be accepted. It is recommended that no heavy near or over the drainage. Do not use heavy machinery near unprotected drainage, and that dumpers, trucks, fork lifts or other heavy vehicles are not driven along or near pipe runs.

Manhole Name	Cover Level	Invert Level	Depth	Manhole Type	Cover Type	Comments	Route	Length	Fall	Gradient	Pipe Size
S1	17.225	16.325	0.900	450mm PPIC	C250		S1-S2	12.641	0.885	1 in 14	150mm PVC
S2	17.080	15.440	1.640	450mm PPIC	C250	Twin wall unjointed pipe	S2-S3	11.697	0.295	1 in 40	225mm PVC
S3	17.150	15.145	2.005	450mm PPIC	B125		S3-S8	5.477	0.495	1 in 11	225mm PVC
S4	15.370	14.470	0.900	450mm PPIC	C250						
S5	16.705	15.805	0.900	450mm PPIC	C250		S5-S4	20.791	1.335	1 in 16	150mm PVC
S6	17.050	16.150	0.900	450mm PPIC	C250		S6-S5	7.315	0.345	1 in 21	150mm PVC
S7	17.205	16.455	0.750	450mm PPIC	C250		S7-S6	13.998	0.305	1 in 46	150mm PVC
S8	17.150	14.650	2.500	450mm PPIC	B125	300mm sump acting as a catchpit	S8-Soakaway	3.747	0.250	1 in 15	225mm PVC
S9	16.875	15.755	1.120	450mm PPIC	C250		S9-S2	4.580	0.315	1 in 15	150mm PVC
S10	17.150	16.150	1.000	450mm PPIC	B125		S10-S3	10.051	1.005	1 in 10	150mm PVC
Soakaway	17.000	14.400	2.600								

Foul Water Manhole and Pipe Schedule											
Manhole Name	Cover Level	Invert Level	Depth	Manhole Type	Cover Type	Comments	Route	Length	Fall	Gradient	Pipe Size
F1	17.050	16.250	0.800	450mm PPIC	C250		F1-F2	4.798	0.060	1 in 80	100mm PVC
F2	17.185	16.190	0.995	450mm PPIC	C250		F2-F3	4.684	0.035	1 in 134	150mm PVC
F3	17.235	16.155	1.080	450mm PPIC	C250		F3-F4	2.245	0.055	1 in 41	150mm PVC
F4	17.235	16.100	1.135	450mm PPIC	C250		F4-SW MHX	7.560	0.140	1 in 54	150mm PVC
SW MHX	17.760	15.960	1.800	1200mm PPIC	C250						150mm PVC

PRP

consulting engineers & surveyors

Cheltenham House
144, High Street
Brixworth, NN6 9BX

Telephone: 01604 869 870
Email: info@prp.co.uk
www.prp.co.uk

Letchworth
144, High Street
Letchworth, SG4 6AA
London

engineering excellence | creating advantage

Client:

Stem Homes

Architect:

Office S&M

Project:

Goldsmith Mews Houses
Lower Higham Road, Gravesend
DA12 2ND

Title:

Manhole and Pipe Schedule

Status:

PRELIMINARY

Engineer:

NN

Date:

October 2022

Drawn:

NN

Scales @ A1:

Checked:

AGS

N/A

Project No.:

82455

Dwg No.:

103

Rev.:

P1