Surface Water Manhole and Pipe Schedule

Manhole ID	Cover Level	Invert Level	Manhole Depth	Manhole Type	Cover Type	Comments	Connecting Route	Pipe Length	Fall	Gradient	Pipe Type
S1	113.413	112.363	1.050	900mm PCC	C250		S1-S2	30.180	0.201	1 in 150	150mm PVC
S2	113.318	112.162	1.156	900mm PCC	C250		S2-S3	29.037	0.314	1 in 92	150mm PVC
S3	112.898	111.848	1.050	900mm PCC	C250		S3-S4	21.846	0.891	1 in 25	150mm PVC
S15	112.464	111.414	1.050	900mm PCC	C250		S15-S4	10.543	0.457	1 in 23	150mm PVC
S4	112.397	110.957	1.440	900mm PCC	C250		S4-S5	10.740	0.366	1 in 29	225mm PVC
RE1	113.036	112.436	0.600	Rodding Eye	A15		RE1-S10	27.168	0.881	1 in 31	100mm PVC
S10	112.255	111.555	0.700	450mm PPIC	A15		S10-S11	9.306	0.095	1 in 98	100mm PVC
S11	112.160	111.460	0.700	450mm PPIC	A15		S11-S9	13.630	0.262	1 in 52	100mm PVC
RE2	113.022	112.422	0.600	Rodding Eye	B125		RE2-S6	9.980	0.100	1 in 100	100mm PVC
S6	113.083	112.322	0.761	450mm PPIC	A15		S6-S7	23.749	0.672	1 in 35	100mm PVC
S7	112.400	111.650	0.750	450mm PPIC	B125		S7-S8	11.950	0.565	1 in 21	150mm PVC
RE3	112.250	111.650	0.600	Rodding Eye	B125		RE3-S8	10.275	0.640	1 in 16	100mm PVC
S8	112.433	111.010	1.423	450mm PPIC	A15		S8-S4	7.950	0.053	1 in 150	225mm PVC
S9	112.023	111.198	0.825	450mm PPIC	A15		S9-S8	16.995	0.113	1 in 150	150mm PVC
S5	111.716	110.591	1.125	900mm PCC	C250		S5-Attenuation Tank	0.996	1.075	1 in 1	225mm PVC
RE4	111.735	111.135	0.600	Rodding Eye	A15		RE4-S12	23.280	0.806	1 in 29	100mm PVC
RE5	111.099	110.499	0.600	Rodding Eye	A15		RE5-S12	17.004	0.170	1 in 100	100mm PVC
S12	111.266	110.329	0.937	450mm PPIC	A15		S12-S13	17.074	0.439	1 in 39	100mm PVC
RE6	110.796	110.096	0.700	Rodding Eye	A15		RE6-S13	15.583	0.156	1 in 100	100mm PVC
RE7	110.705	110.005	0.700	Rodding Eye	C250		RE7-saddle connection	9.643	0.096	1 in 100	100mm PVC
RE8	111.805	111.105	0.700	Rodding Eye	B125		RE8-S13	24.411	1.165	1 in 21	100mm PVC
S13	111.224	109.890	1.334	450mm PPIC	A15		S13-S14	8.076	0.054	1 in 150	150mm PVC
S14	110.724	109.836	0.888	450mm PPIC	C250		S14-Attenuation Tank	1.265	0.008	1 in 150	150mm PVC
Attenuation Tank	110.724	109.341	1.383			Attenuation Tank - CL taken from lowest point	Tank-FCC	1.401	0.009	1 in 150	
FCC	111.231	109.332	1.899	900mm PCC	A15		FCC-Outfall	19.798	0.132	1 in 150	150mm PVC
S16	114.039	113.339	0.700	450mm PPIC	A15		S16-S17	28.308	1.295	1 in 22	100mm PVC
S17	112.744	112.044	0.700	450mm PPIC	B125		S17-S18	18.886	0.660	1 in 29	100mm PVC
S18	112.084	111.384	0.700	450mm PPIC	B125		S18-S19	20.093	0.134	1 in 150	150mm PVC
S19	111.959	111.250	0.709	450mm PPIC	A15		S19-S21	20.929	1.501	1 in 14	100mm PVC
S20a	111.700	110.800	0.900	450mm PPIC	A15		S25-S20	8.323	0.838	1 in 10	100mm PVC
S20	110.662	109.962	0.700	450mm PPIC	A15		S20-S21	21.333	0.213	1 in 100	100mm PVC
S21	111.371	109.699	1.672	450mm PPIC	A15		S21-Soakaway Basin	4.547	0.030	1 in 150	150mm PVC
Soakaway Basin	109.826		109.826	Soakaway Basin		Overflow Pipe	Soakaway Basin-Outfall	22.786	0.000	1 in ###	150mm PVC
S22	114.259	113.559	0.700	450mm PPIC	A15		S22-Soakaway 1	7.368	0.074	1 in 100	100mm PVC
S23	113.497	112.797	0.700	450mm PPIC	A15		S23-Soakaway 2	7.211	0.072	1 in 100	100mm PVC
S24	112.685	111.985	0.700	450mm PPIC	A15		S24-Soakaway 3	4.196	0.042	1 in 100	100mm PVC

Foul Water Manhole and Pipe Schedule

Manhole ID	Cover Level	Invert Level	Manhole Depth	Manhole Type	Cover Type	Comments	Connecting Route	Pipe Length	Fall	Gradient	Pipe Type
F1	110.740	110.040	0.700	450mm PPIC	A15		F1-F2	10.274	0.128	1 in 80	100mm PVC
F2	110.979	109.912	1.067	450mm PPIC	B125		F2-F3	11.717	0.146	1 in 80	100mm PVC
F3	111.286	109.766	1.520	450mm PPIC	A15		F3-F4	7.726	0.097	1 in 80	100mm PVC
F4	111.541	109.669	1.872	450mm PPIC	A15		F4-F5	16.359	0.204	1 in 80	100mm PVC
F5	112.258	109.465	2.793	450mm PPIC	A15		F5-F6	14.796	0.185	1 in 80	100mm PVC
F7	113.013	112.313	0.700	450mm PPIC	A15		F7-F7a	6.153	0.154	1 in 40	100mm PVC
F7a	113.000	112.159	0.841	450mm PPIC	A15		F7a-F8	9.032	0.113	1 in 80	100mm PVC
F8	112.811	112.046	0.765	450mm PPIC	A15		F8-F6	9.331	0.931	1 in 10	100mm PVC
F6	112.536	109.280	3.256	450mm PPIC	A15	Backdrop from F8 of 1.9m	F6-F9	11.016	0.023	1 in 479	150mm PVC
F9	112.848	109.207	3.641	900mm PPIC	A15		F9-Pumping Station	2.451	0.016	1 in 150	150mm PVC
F10	112.010	111.310	0.700	450mm PPIC	A15		F10-F11	8.583	0.215	1 in 40	100mm PVC
F11	111.914	111.095	0.819	450mm PPIC	A15		F11-F12	10.275	0.257	1 in 40	100mm PVC
F12	112.425	110.838	1.587	450mm PPIC	A15		F12-F13	9.734	0.122	1 in 80	100mm PVC
F13	112.590	110.716	1.874	450mm PPIC	A15		F13-F14	9.175	0.115	1 in 80	100mm PVC
F15	114.082	113.382	0.700	450mm PPIC	A15		F15-F16	15.437	0.489	1 in 32	100mm PVC
F16	113.593	112.893	0.700	450mm PPIC	A15		F16-F14	17.529	1.692	1 in 10	100mm PVC
F14	112.819	110.601	2.218	600mm PPIC	C250	Backdrop from F16	F14-F17	13.067	0.163	1 in 80	100mm PVC
F17	112.567	110.388	2.179	600mm PPIC	C250		F17-F9	11.428	1.181	1 in 10	150mm PVC
Pumping Station	112.969	109.191	3.778	600mm GRP	B125	Rising Main	Pump-F18	85.037	-3.850	1 in -22	
F18	113.557	113.041	0.516	900mm PCC	C250			21.108	0.141	1 in 150	150mm PVC
STW 9705	114.230	112.900	1.330	Existing	Existing		Existing	Existing	Existing	Existing	Existing

Exact position, system type and invert level of STW public sewer to be determined prior to construction. Engineer to be notified immediately

Manhole invert levels designed to accommodate lateral incoming pipes up to 50mm above invert level

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:
- Unforeseen 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, reflectorised 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 & 1:80
5. All in-situ concrete shall be minimum grade GEN3.
6. Precast concrete cover & reducing slabs to be heavy duty reinforced concrete to BS 5911.
7. 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.
8. 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.

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

PRP
consulting engineers & surveyors

21-22 Warren Park Way
Enderby
Leicester, LE19 4SA

Telephone: 0116 275 1710
leicester@prp.uk.com
www.prp.uk.com

Leicester
Northampton
London

engineering excellence | creating advantage

Client: Springbourne Homes Ltd

Architect: Hayward Architects

Project: Proposed Housing Development
The Coppice
Burbage

Title: Manhole Schedule

Status: **PRELIMINARY**

Engineer:	VSP	Date:	September 2024
Drawn:	VSP	Scales @ A1:	N/A
Checked:	DE		
Project No:	82907	Drg No: 103	Rev: P1

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