

Surface Water Manhole & Pipe Schedule											
Manhole ID	Cover Level	Invert Level	Manhole Depth	Manhole Type	Cover Type	Comments	Connecting Route	Pipe Length	Fall	Gradient	Pipe Type
RE1	112.600	112.000	0.600	Rodding Eye	B125		RE1-S10	23.248	0.233	1 in 99.8	150mm PVC
RE2	112.350	111.750	0.600	Rodding Eye	B125		RE2-S19	15.863	0.650	1 in 24	100mm PVC
RE4	110.451	109.851	0.600	Rodding Eye	B125		RE4-S27	11.397	0.114	1 in 100	150mm PVC
RE5	109.750	109.150	0.600	Rodding Eye	B125		RE5-S40	9.801	0.109	1 in 90	150mm PVC
RE6	109.650	109.050	0.600	Rodding Eye	B125		RE6-S42	12.648	0.264	1 in 48	100mm PVC
RE7	109.435	108.835	0.600	Rodding Eye	B125		RE7-S51	11.199	0.135	1 in 83	150mm PVC
RE8	109.341	108.741	0.600	Rodding Eye	B125		RE8-S48	11.197	0.525	1 in 21	100mm PVC
RE9	108.150	107.550	0.600	Rodding Eye	B125		RE9-S58	8.006	0.081	1 in 99	150mm PVC
S1	112.567	111.810	0.757	450mm PPIC	C250		S1-S2	9.257	0.100	1 in 93	150mm PVC
S2	112.564	111.710	0.854	450mm PPIC	C250		S2-S3	5.218	0.280	1 in 19	150mm PVC
S3	112.596	111.430	1.166	450mm PPIC	C250		S3-S5	12.501	0.127	1 in 98	150mm PVC
S4	112.285	111.530	0.755	450mm PPIC	C250		S4-S3	9.919	0.100	1 in 99	150mm PVC
S5	112.150	111.303	0.847	450mm PPIC	B125		S5-S6	24.327	0.446	1 in 55	150mm PVC
S6	111.807	110.857	0.950	450mm PPIC	B125		S6-S14	9.077	0.367	1 in 25	150mm PVC
S7	111.690	110.990	0.700	450mm PPIC	C250		S7-S8	6.098	0.190	1 in 32	100mm PVC
S8	111.555	110.800	0.755	450mm PPIC	C250		S8-S14	5.676	0.310	1 in 18	100mm PVC
S9	111.714	110.725	0.989	450mm PPIC	C250		S9-S17	16.750	0.642	1 in 26	150mm PVC
S10	112.850	111.767	1.083	450mm PPIC	B125		S10-S11	17.686	0.177	1 in 100	150mm PVC
S11	112.450	111.590	0.860	450mm PPIC	B125		S11-S12	16.625	0.167	1 in 100	150mm PVC
S12	112.125	111.423	0.702	450mm PPIC	B125		S12-S13	10.476	0.275	1 in 38	150mm PVC
S13	112.000	111.148	0.852	450mm PPIC	B125		S13-S6	12.822	0.291	1 in 44	150mm PVC
S14	111.445	110.490	0.955	1200mm PCC	D400	Protective concrete bed and surround	S14-Pond	20.218	1.440	1 in 14	225mm PVC
S15	111.520	110.770	0.750	450mm PPIC	C250		S15-S9	4.498	0.045	1 in 100	150mm PVC
S16	111.610	110.860	0.750	450mm PPIC	C250		S16-S15	5.639	0.090	1 in 63	150mm PVC
S17	111.900	110.083	1.817	600mm PPIC	B125		S17-S20	19.109	0.192	1 in 100	150mm PVC
S18	110.464	109.864	0.600	300mm PPIC	C250		S18-S31	5.206	0.418	1 in 12	150mm PVC
S19	111.800	111.100	0.700	450mm PPIC	B125		S19-S22	30.521	0.306	1 in 100	150mm PVC
S20	110.975	109.891	1.084	450mm PPIC	C250		S20-S21	7.216	0.491	1 in 15	150mm PVC
S21	110.738	109.400	1.338	1200mm PCC	D400		S21-S26	8.006	0.250	1 in 32	150mm PVC
S22	112.200	110.794	1.406	600mm PPIC	B125		S22-S23	10.905	0.114	1 in 96	150mm PVC
S23	111.350	110.680	0.670	450mm PPIC	B125		S23-S24	5.734	0.505	1 in 11	150mm PVC
S24	110.975	110.175	0.800	450mm PPIC	C250		S24-S20	6.067	0.284	1 in 21	150mm PVC
S26	110.335	109.150	1.185	1200mm PCC	D400		S26-Pond	15.861	0.100	1 in 159	300mm PVC
S27	110.630	109.737	0.893	450mm PPIC	B125		S27-S28	9.676	0.097	1 in 100	150mm PVC
S28	110.510	109.640	0.870	450mm PPIC	B125		S28-S29	8.836	0.089	1 in 99	150mm PVC
S29	110.450	109.551	0.899	450mm PPIC	B125		S29-S30	4.857	0.049	1 in 99	150mm PVC
S30	110.265	109.502	0.763	450mm PPIC	C250		S30-S31	5.545	0.056	1 in 99	150mm PVC
S31	110.203	109.446	0.757	450mm PPIC	C250		S31-S26	19.039	0.296	1 in 64	150mm PVC
S32	109.984	108.634	1.350	1200mm PCC	D400		S32-S33	21.954	1.124	1 in 20	150mm PVC
S33	108.860	107.510	1.350	1200mm PCC	D400		S33-S36	19.119	1.200	1 in 16	150mm PVC
S34	109.965	109.065	0.900	1200mm PCC	B125		S34-Pond	3.331	0.015	1 in 222	300mm PVC
S35 Pump	109.900	109.000	0.900	1200mm PCC	B125	Rising main	S35 Pump-Ditch	90.000			
S36	107.522	106.310	1.212	1200mm PCC	D400		S36-S37	5.131	0.051	1 in 101	150mm PVC
S37	107.565	106.259	1.306	1200mm PCC	D400		S37-S61	29.500	0.295	1 in 100	150mm PVC
S38	109.696	108.946	0.750	450mm PPIC	C250		S38-S41	11.543	0.116	1 in 100	150mm PVC
S40	109.750	109.041	0.709	450mm PPIC	B125		S40-S43	14.238	0.143	1 in 100	150mm PVC
S41	109.700	108.830	0.870	450mm PPIC	C250		S41-S42	4.356	0.044	1 in 99	150mm PVC
S42	109.550	108.786	0.764	450mm PPIC	B125		S42-S46	18.794	1.286	1 in 15	150mm PVC
S43	109.550	108.898	0.652	450mm PPIC	B125		S43-S44	12.772	0.128	1 in 100	150mm PVC
S44	109.539	108.770	0.769	450mm PPIC	B125	Backdrop	S44-S46	7.778	0.599	1 in 13	150mm PVC
S46	108.100	107.500	0.600	450mm PPIC	B125	300mm sump acting as a catchpit	S46-Tank	2.976	0.315	1 in 9	150mm PVC
S48	109.302	108.216	1.086	450mm PPIC	B125	300mm sump acting as a catchpit	S48-Tank	5.207	1.031	1 in 5	150mm PVC
S50	109.390	108.512	0.878	450mm PPIC	B125		S50-S48	9.596	0.296	1 in 32	150mm PVC
S51	109.451	108.700	0.751	450mm PPIC	C250		S51-S52	8.372	0.084	1 in 100	150mm PVC
S52	109.451	108.616	0.835	450mm PPIC	C250		S52-S53	0.936	0.010	1 in 94	150mm PVC
S53	109.451	108.606	0.845	450mm PPIC	B125		S53-S50	9.388	0.094	1 in 100	150mm PVC
S54	107.850	106.704	1.146	450mm PPIC	B125	300mm sump acting as a catchpit	S54-Tank	6.237	0.569	1 in 11	150mm PVC
S55	108.250	107.380	0.870	450mm PPIC	B125		S55-S54	16.208	0.676	1 in 24	150mm PVC
S56	108.150	107.397	0.753	450mm PPIC	C250		S56-S55	1.647	0.017	1 in 97	150mm PVC
S58	108.280	107.469	0.811	450mm PPIC	C250		S58-S56	7.154	0.072	1 in 99	150mm PVC
S59	107.500	106.900	0.600	450mm PPIC	B125		S59-S54	19.579	0.196	1 in 100	150mm PVC
S60	108.000	107.400	0.600	300mm PPIC	B125		S60-S59	7.063	0.500	1 in 14	100mm PVC
S61	107.340	105.964	1.376	1200mm PCC	B125		S61-S62 Pump	2.173	0.013	1 in 167	225mm PVC
S62 Pump	107.240	105.951	1.289	1200mm PCC	B125	Rising main	S62 Pump-S34	57.135			
Pond	109.965	109.050	0.915				Pond-S35 Pump	3.639	0.050	1 in 73	225mm PVC
Tank	107.835	106.135	1.700				Tank-S61	28.927	0.171	1 in 169	225mm PVC

Foul Water Manhole Schedule											
Manhole ID	Cover Level	Invert Level	Manhole Depth	Manhole Type	Cover Type	Comments	Connecting Route	Pipe Length	Fall	Gradient	Pipe Type
F1	112.650	111.950	0.700	450mm PPIC	C250		F1-F2	10.507	0.263	1 in 40	100mm PVC
F2	112.650	111.687	0.963	450mm PPIC	B125		F2-F3	18.361	0.230	1 in 80	100mm PVC
F3	112.200	111.457	0.743	450mm PPIC	B125		F3-F4	15.998	0.309	1 in 52	100mm PVC
F4	111.848	111.148	0.700	450mm PPIC	B125		F4-F5	10.947	0.137	1 in 80	100mm PVC
F5	111.759	111.011	0.748	450mm PPIC	C250		F5-F6	8.795	0.111	1 in 79	150mm PVC
F6	112.000	110.900	1.100	450mm PPIC	B125		F6-F7	7.043	0.071	1 in 99	150mm PVC
F7	111.950	110.829	1.121	450mm PPIC	B125		F7-F8	3.224	0.033	1 in 98	150mm PVC
F8	111.500	110.796	0.704	450mm PPIC	B125		F8-F9	4.761	0.048	1 in 99	150mm PVC
F9	111.600	110.748	0.852	450mm PPIC	B125		F9-F10	7.752	0.078	1 in 99	150mm PVC
F10	111.500	110.670	0.830	450mm PPIC	B125		F10-F11	3.338	0.266	1 in 13	150mm PVC
F11	111.154	110.404	0.750	450mm PPIC	B125		F11-F12	12.476	0.844	1 in 15	150mm PVC
F12	110.460	109.560	0.900	1200mm PCC	D400	Protective concrete bed and surround	F12-F15	12.652	0.360	1 in 35	150mm PVC
F13	110.625	109.925	0.700	450mm PPIC	B125		F13-F14	6.184	0.155	1 in 40	100mm PVC
F14	111.400	109.770	1.630	600mm PPIC	B125		F14-F15	18.204	0.570	1 in 32	100mm PVC
F15	110.120	109.200	0.920	1200mm PCC	D400	Protective concrete bed and surround	F15-F16	16.658	1.200	1 in 14	150mm PVC
F16	108.920	108.000	0.920	1200mm PCC	D400	Backdrop	F16-F23	23.256	1.789	1 in 13	150mm PVC
F17	109.650	108.950	0.700	450mm PPIC	B125		F17-F18	10.746	0.313	1 in 34	100mm PVC
F18	109.550	108.637	0.913	450mm PPIC	B125		F18-F19	3.204	0.040	1 in 80	100mm PVC
F19	109.480	108.597	0.883	450mm PPIC	B125		F19-F20	11.107	0.139	1 in 80	100mm PVC
F20	109.460	108.458	1.002	450mm PPIC	B125		F20-F21	8.865	0.120	1 in 74	100mm PVC
F21	109.468	108.338	1.130	450mm PPIC	B125		F21-F22	20.774	1.100	1 in 19	150mm PVC
F22	108.150	107.238	0.912	450mm PPIC	B125	Backdrop	F22-F23	15.033	1.157	1 in 13	150mm PVC
F23 DC	107.475	105.171	2.304	1200mm PCC	D400		F23 DC-F25 Adoptable	8.253	0.687	1 in 12	150mm PVC
F24	108.225	107.525	0.700	450mm PPIC	B125		F24-F22	11.466	0.287	1 in 40	100mm PVC
F25 Adoptable	107.006	104.484	2.522	1200mm PCC	D400						

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

DEMOLITION 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.

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SVP and RWP locations added. Drainage amended to suit

NN / FW

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Rev

Date

Description

By / Chk

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Architect:

Hayward Architects

Project:

Main Street

Norton Juxta Twycross

Title:

Manhole & Pipe Schedule

Status:

PRELIMINARY

Engineer:

NN

Date:

February 2022

Drawn:

NN

Scales @ A1:

N/A

Checked:

FW

Project No:

82326

Drg No:

103

Rev:

P2

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