

Surface Water Manhole and Pipe Schedule											
Manhole ID	Cover Level	Invert Level	Manhole Dept	Manhole Type	Cover Type	Comments	Connecting Route	Pipe Length	Fall	Gradient	Pipe Type
RE1	102.835	102.235	0.600	Rodding Eye	B125		RE1-S1	21.237	0.618	1 in 34	100mm PVC
RE2	102.850	102.250	0.600	Rodding Eye	B125		RE2-S4	5.727	0.450	1 in 13	100mm PVC
RE3	102.700	102.100	0.600	Rodding Eye	B125		RE3-S4	11.631	0.300	1 in 39	100mm PVC
RE4	102.371	101.771	0.600	Rodding Eye	B125		RE4-S6	10.136	0.756	1 in 13	100mm PVC
RE5	101.565	100.965	0.600	Rodding Eye	B125		RE5-S12	10.632	0.965	1 in 11	100mm PVC
RE6	101.050	100.450	0.600	Rodding Eye	B125		RE6-S11	12.937	0.162	1 in 80	100mm PVC
RE7	100.345	99.745	0.600	Rodding Eye	B125		RE7-S16	7.429	0.244	1 in 30	100mm PVC
RE8	100.200	99.600	0.600	Rodding Eye	B125		RE8-S18	20.694	0.259	1 in 80	100mm PVC
RE9	101.552	100.952	0.600	Rodding Eye	B125		RE9-S24	13.065	0.543	1 in 24	100mm PVC
RE10	101.630	101.030	0.600	Rodding Eye	B125		RE10-S11	10.185	0.742	1 in 14	100mm PVC
RE11	101.195	100.595	0.600	Rodding Eye	B125		RE11-S24: S25	19.315	0.242	1 in 80	100mm PVC
RE12	101.552	100.952	0.600	Rodding Eye	B125		RE12-S22	5.636	0.112	1 in 50	100mm PVC
RE13	101.195	100.595	0.600	Rodding Eye	B125		RE13-S26	12.071	0.151	1 in 80	100mm PVC
RE15	100.318	99.718	0.600	Rodding Eye	B125		RE15-S31	20.239	0.253	1 in 80	100mm PVC
RE16	100.321	99.721	0.600	Rodding Eye	B125		RE16-S33	16.351	0.271	1 in 60	100mm PVC
S1	102.650	101.617	1.033	450mm PPIC	B125		S1-S2	7.942	0.829	1 in 10	100mm PVC
S2	102.600	100.788	1.812	600mm PPIC	B125		S2-S3	3.104	0.039	1 in 80	100mm PVC
S3	102.750	100.749	2.001	600mm PPIC	C250		S3-S9	17.300	0.173	1 in 100	150mm PVC
S4	102.700	101.800	0.900	450mm PPIC	B125		S4-S9	16.543	1.224	1 in 14	100mm PVC
S6	101.615	101.015	0.600	300mm PPIC	B125		S6-S7	7.075	0.176	1 in 40	100mm PVC
S7	101.721	100.839	0.882	450mm PPIC	B125		S7-S8	1.304	0.017	1 in 77	100mm PVC
S8	102.350	100.822	1.528	600mm PPIC	C250		S8-S9	13.542	0.246	1 in 55	150mm PVC
S9	102.002	100.576	1.426	600mm PPIC	C250		S9-S21	15.269	0.266	1 in 57	150mm PVC
S10	101.565	100.815	0.750	450mm PPIC	C250		S10-S11	15.759	0.527	1 in 30	100mm PVC
S11	101.397	100.288	1.109	450mm PPIC	C250		S11-Tank 2	5.336	0.181	1 in 29	150mm PVC
S12	100.750	100.000	0.750	450mm PPIC	B125		S12-S13	17.422	0.218	1 in 80	100mm PVC
S13	100.720	99.782	0.938	450mm PPIC	B125		S13-S16	22.456	0.281	1 in 80	100mm PVC
S14 FCC	100.200	98.988	1.212	1200mm PCC	B125		S14 FCC-S39	52.090	1.811	1 in 29	225mm PVC
S15	100.750	100.000	0.750	450mm PPIC	C250		S15-S16	13.340	0.499	1 in 27	100mm PVC
S16	100.601	99.501	1.100	450mm PPIC	C250		S16-Tank 2	4.467	0.444	1 in 10	150mm PVC
S18	100.000	99.341	0.659	450mm PPIC	B125		S18-S19	10.794	0.201	1 in 54	100mm PVC
S19	100.480	99.140	1.340	600mm PPIC	C250		S19-Tank 2	8.274	0.083	1 in 100	150mm PVC
S20	100.652	99.902	0.750	450mm PPIC	C250		S20-S33	8.223	0.452	1 in 18	100mm PVC
S21	101.310	100.310	1.000	450mm PPIC	D400		S21-Tank 1	11.319	0.500	1 in 23	150mm PVC
S22	101.540	100.840	0.700	450mm PPIC	C250		S22-S23	7.678	0.100	1 in 77	100mm PVC
S23	101.497	100.740	0.757	450mm PPIC	C250		S23-Tank 1	7.815	0.880	1 in 9	100mm PVC
S24	101.552	100.409	1.143	450mm PPIC	B125		S24-S25	17.870	0.235	1 in 76	100mm PVC
S25	101.370	100.174	1.196	450mm PPIC	B125		S25-S27	8.831	0.111	1 in 80	100mm PVC
S26	101.245	100.444	0.801	450mm PPIC	C250		S26-S27	5.991	0.381	1 in 16	100mm PVC
S27	100.955	100.063	0.892	450mm PPIC	C250		S27-S36	5.637	1.677	1 in 3	100mm PVC
S28 FCC	100.729	98.318	2.411	1350mm PCC	D400		S28 FCC-S37	9.972	0.059	1 in 169	225mm PVC
S29	100.425	99.675	0.750	450mm PPIC	C250		S29-Tank 2	5.438	0.618	1 in 9	100mm PVC
S30	101.188	100.438	0.750	450mm PPIC	C250		S30-S29	13.036	0.763	1 in 17	100mm PVC
S31	100.500	99.465	1.035	450mm PPIC	B125		S31-S19	25.947	0.325	1 in 80	100mm PVC
S32	100.500	99.231	1.269	450mm PPIC	B125		S32-Tank 2	13.201	0.174	1 in 76	100mm PVC
S33	100.200	99.450	0.750	450mm PPIC	C250		S33-S32	17.511	0.219	1 in 80	100mm PVC
S34	99.505	98.655	0.850	600mm PPIC	D400		S34-S35	16.775	0.168	1 in 100	150mm PVC
S35	100.441	98.487	1.954	600mm PPIC	D400		S35-S36	10.074	0.101	1 in 100	150mm PVC
S36	100.724	98.386	2.338	900mm PCC	D400		S36-Tank 1	2.575	0.026	1 in 99	150mm PVC
S37	100.261	98.259	2.002	600mm PPIC	D400		S37-S38	29.262	0.732	1 in 40	225mm PVC
S38	99.120	97.527	1.593	600mm PPIC	B125		S38-S39	14.000	0.350	1 in 40	225mm PVC
S39	98.850	97.177	1.673	600mm PPIC	B125		S39-Ditch 2	5.851	0.100	1 in 59	225mm PVC
Tank 1	101.150	98.360	2.790				Tank 1-S28 FCC	7.047	0.042	1 in 168	225mm PVC
Tank 2	101.000	99.057	1.943				Tank 2-S14 FCC	11.574	0.069	1 in 168	225mm PVC
STW MH D1	102.650	101.165	1.485	1200mm PCC	B125	Newly diverted public sewer	STW MH D1-STW MH D2	29.416	0.593	1 in 50	225mm PVC
STW MH D2	101.620	100.572	1.048	1200mm PCC	B125	Newly diverted public sewer	STW MH D2-STW MH D3	33.185	1.341	1 in 25	225mm PVC
STW MH D3	100.746	99.231	1.515	1200mm PCC	D400	Newly diverted public sewer	STW MH D3-Ditch 1	21.754	0.354	1 in 61	225mm PVC
STW MH 3801	104.640	102.100	2.540	900mm PCC			STW MH 3801-STW MH D1	37.444	0.935	1 in 40	225mm PVC
Ditch Point 1	99.700	98.877	0.823				Ditch Point 1-Ditch 2				
Ditch Point 2	97.750	97.077	0.673				Ditch Point 2-Ditch 2				

Foul Water Manhole and Pipe Schedule											
Manhole ID	Cover Level	Invert Level	Manhole Dept	Manhole Type	Cover Type	Comments	Connecting Route	Pipe Length	Fall	Gradient	Pipe Type
F1	102.750	102.150	0.600	300mm PPIC	B125	Backdrop	F1-F3	1.610	0.108	1 in 15	100mm PVC
F2	102.622	102.022	0.600	300mm PPIC	B125		F2-F3	5.763	0.145	1 in 40	100mm PVC
F3	102.700	101.877	0.823	450mm PPIC	B125		F3-F4	11.644	0.277	1 in 42	100mm PVC
F4	102.300	101.600	0.700	450mm PPIC	C250		F4-F5	6.394	0.400	1 in 16	100mm PVC
F5	101.900	101.200	0.700	450mm PPIC	B125		F5-F6	9.010	0.295	1 in 31	150mm PVC
F6	101.605	100.905	0.700	450mm PPIC	B125		F6-F10	10.283	1.402	1 in 7	150mm PVC
F7	101.018	100.418	0.600	300mm PPIC	B125		F7-F10	11.397	0.915	1 in 12	100mm PVC
F8	100.900	100.300	0.600	300mm PPIC	B125		F8-F10	8.417	0.797	1 in 11	100mm PVC
F9	100.500	99.900	0.600	300mm PPIC	B125		F9-F10	15.861	0.397	1 in 40	100mm PVC
F10	101.136	99.503	1.633	600mm PPIC	C250		F10-F12	23.388	0.234	1 in 100	150mm PVC
F11	100.860	99.269	1.591	600mm PPIC	B125		F11-F12	11.681	0.324	1 in 36	150mm PVC
F12	100.650	98.945	1.705	600mm PPIC	B125		F12-F16	11.038	0.138	1 in 80	150mm PVC
F13	101.528	100.928	0.600	300mm PPIC	B125		F13-F14	7.895	0.198	1 in 40	100mm PVC
F14	101.370	100.730	0.640	450mm PPIC	B125		F14-F15	10.215	0.128	1 in 80	100mm PVC
F15	101.300	100.602	0.698	450mm PPIC	B125		F15-F16	20.187	1.795	1 in 11	100mm PVC
F16	100.325	98.807	1.518	600mm PPIC	B125		F16-F17 Adoptable	22.035	0.807	1 in 27	150mm PVC
F17 Adoptable	99.000	98.000	1.000	600mm PPIC	D400		F17 Adoptable-STW MH				

Note:

- Sewers are designed and proposed for adoption as per Design and Construction Guidance/Sewer Sector Guidance
- Proposed drainage is separate and does not discharge into proposed diverted public sewer
- Manholes for diverted sewer to be constructed in 1200mm Ø precast concrete as per Design and Construction Guidance

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. 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.
 8. 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.
 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 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.

P6	18/10/2023	Notes added as per STW comments	NN / FW
P5	04/10/2023	Route of diverted sewer amended slightly to achieve 3m easement required	NN / FW
P4	18/08/2023	S38 & S39 added	NN / FW
P3	15/05/2023	RE9, S37 & D3 route and discharge points revised	NN / FW
P2	20/04/2023	Second tank and discharge location added	NN / FW
P1	04/04/2023	Issued for comments	NN / FW
Rev	Date	Description	By / Chk

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Title:
Manhole & Pipe Schedule

Status:
PRELIMINARY

Engineer: NN
Drawn: NN
Checked: FW
Project No: 82639

Date: April 2023
Scales @ A1:
N/A
Drg No: 103
Rev: P6

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