

SURFACE WATER MANHOLE SCHEDULE - ADAPTABLE									
MH No.	MANHOLE DIMENSION (mm)	MANHOLE TYPE	COVER TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)	
SW1	13500	Type C	D400	144.419	142.984	1.200	538333.349	236219.566	
SW2	13500	Type B	D400	143.666	141.941	1.861	538336.700	236189.866	
SW3	13500	Type C	D400	143.292	141.676	1.316	538339.400	236168.981	
SW4	13500	Type C	D400	143.647	141.628	1.719	538337.711	236182.844	
SW5	13500	Type B	D400	143.841	142.341	1.200	538369.937	236218.514	
SW6	13500	Type C	D400	143.500	141.620	1.380	538369.376	236203.718	
SW7	13500	Type C	D400	143.116	141.440	1.301	538371.451	236186.870	
SW8	13500	Type C	D400	143.338	141.703	1.260	538419.462	236240.399	
SW9	13500	Type C	D400	142.641	140.897	1.494	538425.401	236193.121	
SW10	13500	Type C	D400	142.446	140.534	1.462	538427.763	236194.715	
SW11	13500	Type C	D400	141.612	140.267	1.120	538484.724	236167.671	
SW12	13500	Type C	D400	141.877	140.229	1.423	538482.419	236206.897	
SW13	13500	Type C	D400	141.729	139.949	1.331	538493.586	236186.195	
SW14	13500	Type C	D400	141.263	139.190	1.023	538519.408	236180.332	
SW16	13500	Type C	D400	145.103	143.603	1.200	538531.028	236316.954	
SW17	13500	Type C	D400	144.790	143.015	1.400	538364.167	236278.217	
SW18	13500	Type C	D400	145.234	143.532	1.361	538351.617	236266.797	
SW19	13500	Type C	D400	144.773	143.296	1.117	538302.113	236237.897	
SW20	13500	Type C	D400	144.772	143.230	1.242	538314.309	236238.786	
SW22	13500	Type B	D400	144.928	143.126	1.502	538333.978	236245.836	
SW23	13500	Type C	D400	144.628	142.893	1.265	538343.301	236250.111	
SW24	13500	Type C	D400	143.403	141.553	1.400	538435.913	236258.827	
SW25	13500	Type C	D400	143.185	141.235	1.500	538448.739	236258.753	
SW26	13500	Type C	D400	142.092	140.819	1.048	538497.148	236223.123	
SW27	13500	Type C	D400	142.255	140.644	1.341	538502.074	236248.863	
SW28	13500	Type C	D400	142.238	140.683	1.350	538527.265	236266.016	
SW29	13500	Type B	D400	141.888	139.800	1.638	538522.922	236244.738	
SW30	13500	Type C	D400	144.697	142.975	1.347	538363.508	236266.107	
SW31	12000	Type B	D400	144.135	142.211	1.700	538461.666	236308.463	
SW34	12000	Type C	D400	143.304	141.529	1.550	538495.148	236306.961	
SW35	13500	Type C	D400	143.075	141.375	1.400	538508.640	236303.367	
SW36	13500	Type C	D400	142.821	141.321	1.200	538523.029	236297.134	
SW37	13500	Type C	D400	142.635	141.210	1.125	538528.461	236288.597	
SW38	12000	Type C	D400	142.439	140.714	1.425	538530.402	236279.174	
SW40	13500	Type C	D400	141.673	140.473	1.050	538563.453	236268.561	
SW42	13500	Type C	D400	141.886	140.538	1.200	538570.697	236267.231	
SW45	13500	Type C	D400	141.525	140.190	1.050	538581.602	236254.984	
SW46	13500	Type C	D400	141.611	139.834	1.402	538549.147	236255.444	
SW23A	13500	Type B	D400	144.781	143.055	1.501	538488.700	236313.408	
SW23B	12000	Type B	D400	144.449	142.654	1.570	538483.041	236309.734	
SW21	12000	Type C	D400	145.213	143.552	1.361	538331.615	236266.796	

SURFACE WATER MANHOLE SCHEDULE - ADAPTABLE									
MH No.	MANHOLE DIMENSION (mm)	MANHOLE TYPE	COVER TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)	
S89	13500	Type C	D400	139.338	137.988	1.200	538711.197	236244.206	
SW90	13500	Type C	D400	140.933	139.538	1.200	538670.789	236207.298	
SW91	13500	Type C	D400	140.674	139.049	1.400	538659.964	236197.730	
SW92	13500	Type C	D400	140.230	138.810	1.195	538656.538	236198.938	
SW93	13500	Type C	D400	140.801	139.380	1.196	538643.568	236196.937	
SW94	13500	Type C	D400	140.217	138.686	1.231	538656.841	236189.981	
SW96	13500	Type C	D400	139.237	137.751	1.261	538651.351	236126.838	
SW97	13500	Type B	D400	139.404	137.479	1.550	538650.801	236149.280	
SW98	13500	Type C	D400	139.987	138.506	1.181	538626.670	236215.142	
SW99	13500	Type C	D400	139.547	138.447	1.200	538624.242	236216.369	
SW80	13500	Type C	D400	139.366	137.866	1.200	538621.880	236174.590	
SW81	13500	Type C	D400	138.897	136.707	1.815	538608.261	236141.976	
SW82	13500	Type B	D400	138.637	136.468	1.719	538617.759	236139.465	
SW83	13500	Type C	D400	137.969	136.072	1.402	538636.967	236157.919	
SW84	15000	Type C	B125	137.361	135.895	0.941	538654.652	236138.661	
SW85	15000	Type C	D400	137.789	135.842	1.422	538657.999	236151.658	
SW86	15000	Type C	D400	138.083	135.813	1.670	538664.713	236156.713	
SW67	15000	Type C	D400	138.742	135.720	2.422	538658.689	236168.880	
SW68	15000	Type B	D400	138.900	135.690	2.610	538655.083	236200.100	
SW69	13500	Type C	D400	141.671	140.159	1.287	538610.593	236304.702	
SW70	13500	Type C	D400	141.683	140.058	1.400	538627.413	236303.135	
SW72	13500	Type C	D400	141.172	139.741	1.131	538647.224	236302.015	
SW73	13500	Type C	D400	140.744	139.244	1.200	538644.426	2363073.409	
SW74	13500	Type C	D400	140.530	139.039	1.191	538641.207	236259.099	
SW75	13500	Type C	D400	141.292	139.867	1.200	538674.242	236235.667	
SW76	13500	Type C	D400	140.956	139.531	1.200	538652.971	236234.100	
SW77	13500	Type C	D400	140.691	139.266	1.200	538607.226	236234.965	
SW78	13500	Type C	D400	140.204	138.629	1.200	538638.803	236232.114	
SW79	13500	Type C	D400	139.707	138.132	1.200	538660.367	236229.985	
SW81	15000	Type B	D400	138.848	135.651	2.597	538702.659	236213.741	

DRAINAGE NOTES:

1. All drainage works to be constructed in strict accordance with specification of the Local Authority, Building Regulations, Design and Construction Guidance (published by Water UK) BS EN 752.
2. Any existing drainage found crossing the site is to be investigated, and if found to be 'live', it should be diverted in consultation with the Client.
3. For location and setting out of building drainage points refer to architects drawings.
4. All pipe runs near buildings to comply with the Building Regulations 2015 Part H1. Where a pipe is within 1m of a foundation the trench shall be filled with class GEN3 concrete up to the lowest level of the foundation. Where the trench is further than 1m from the foundation, the trench shall be filled with class GEN3 concrete to a level below the lowest level of the foundation equal to the distance from the foundation less 150mm. In both cases the pipe shall be bedded and surrounded in 150mm thick class GEN3 concrete.
5. Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN3 concrete encasement (150mm thick).
6. Where a pipe, under a carriage bed, has a depth of cover of less than 1.2m the pipe shall be laid in a concrete bed and surround.
7. Where a pipe, under a vehicular area other than a carriageway has a depth of cover if less than 0.3m the pipe shall be protected with a concrete slab set above it.
8. In any circumstances where pipes are bedded and surrounded in concrete flexible joints up to be provided, compressible boards (fibreglass or polystyrene) shall be provided at a maximum of 8m centres (coinciding with pipe joints), the boards shall be cut to pipe diameter and to a height and width equal to the concrete cross section, a board thickness of 15mm for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal diameter.
9. All private building drainage shall be constructed in strict accordance with BS EN 752. Foul drainage beneath the floor slab shall be laid, shall be bedded and surrounded in concrete flexible joints up to be provided, compressible boards (fibreglass or polystyrene) shall be provided at a maximum of 8m centres (coinciding with pipe joints), the boards shall be cut to pipe diameter and to a height and width equal to the concrete cross section, a board thickness of 15mm for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal diameter.
10. All building drains shall be laid in conjunction with 'non adoptive bedding details' (class 4, n or b) unless otherwise specified.
11. All pipes, bends and junction for private building drainage shall be UPVC conforming to BS4660, BS EN 13598 and BS EN 1401 as appropriate and shall be laid in accordance with the manufacturer's specification.
12. The locations of all building drainage points shall be cross referenced against the architects drawings during setting out and any discrepancies reported immediately.
13. All back inlet gullies to be fitted with a minimum of 200mm diameter and 36mm for pipes over 450mm nominal diameter.
14. All gully connections other than at manholes to be 'y' junctions.
15. All road gully connections to be 150mm diameter.
16. All stub stacks to be fitted with air admittance valves where branch drain exceeds 12m except at the head of the run. Soil vent pipes located at the head of a run to be fitted with a minimum of 200mm diameter and 36mm for pipes over 450mm nominal diameter.
17. No low point shall be without a method of drainage.
18. All connections to be soffit to soffit unless otherwise noted.
19. All concrete and concrete products to be in accordance with BRE 363 for sulphates.
20. The locations of all building drainage points shall be cross referenced against the architects drawings during setting out and any discrepancies reported immediately.
21. Before connections are made to existing public sewers an application under S106 must be made to relevant sewerage undertaker.
22. The precise depth and location and size of existing pipes, watercourses or manholes where connections or diversion are proposed must be confirmed and reported to the engineer before works commence on site.
23. Any existing drains to be abandoned to be decommissioned in accordance with the Building Regulations by either grubbing, infilling or sealing.
24. Should ground water be encountered on site during construction the Client shall be informed to determine if additional measures are required.
25. The drainage system shall be fully cleansed on completion of the project using methods that ensure pollution off site does not occur.
26. Any existing land drains severed during construction shall be reinstated.

NOTE

- Recess Manhole Cover proposed for all covers located in block paving or paving slabs.
- For manholes / PPIC that are fully enclosed by fencing an A15 cover may be acceptable if confirmed by the Client
- Restricted Access Covers - For PPICs, if distance from cover level to soffit of pipe is > 1m, access opening shall be restricted to 350mmØ or 300mm x 300mm.

PRIVATE SURFACE WATER SCHEDULE									
MH No.	MANHOLE DIMENSION (mm)	MANHOLE TYPE	COVER TYPE	COVER LEVEL (m)	INVERT LEVEL (m)	DEPTH TO SOFFIT (m)	EASTING (m)	NORTHING (m)	
PS1	3000	Type E	B125	145.142	144.442	0.600	538311.405	236273.719	
PS2	4500	Type E	B125	145.308	144.293	0.914	538299.478	236272.534	
PS3	4500	Type E	B125	145.147	143.977	1.070	538300.573	236262.177	
PS4	4500	Type E	B125	145.047	143.920	1.027	538300.919	236257.616	
PS5	4500	Type E	B125	144.955	143.815	1.099	538301.558	236244.435	
PS7	ROOOFING EYE	Type E	B125	145.072	144.622	0.350	538311.561	236256.909	
PS8	4500	Type E	B125	144.974	144.309	0.565	538319.462	236244.821	
PS11	4500	Type E	B125	145.039	144.389	0.549	538337.030	236252.566	
PS12	4500	Type E	B125	145.037	144.016	0.922	538341.911	236255.422	
PS13	4500	Type E	B125	144.800	143.866	0.834	538358.468	236255.147	
PS14	3000	Type E	B125	144.997	144.297	0.600	538342.354	236268.594	
PS15	ROOOFING EYE	Type E	B125	145.277	144.827	0.550	538358.654	236269.923	
PS16	4500	Type E	B125	145.226	144.076	1.050	538354.310	236258.584	
PS17	4500	Type E	B125	145.208	144.208	0.900	538355.585	236266.898	
PS18	ROOOFING EYE	Type E	B125	145.208	144.758	0.350	538347.170	236300.782	
PS19	4500	Type E	B125	145.196	144.486	0.600	538360.840	236268.018	
PS20	4500	Type E	B125	145.422	144.389	0.923	538343.810	236318.881	
PS21	4500	Type E	B125	145.122	144.120	0.901	538378.548	236312.359	
PS22	4500	Type E	B125	145.122	143.952	1.070	538375.868	236299.145	
PS23	4500	Type E	B125	144.980	144.309	0.574	538339.498	236256.975	
PS24	ROOOFING EYE	Type E	B125	145.050	144.621	0.329	538351.681	236266.795	
PS25	4500	Type E	B125	144.984	143.534	1.350	538377.927	236284.567	
PS26	4500	Type E	B125	144.914	144.223	0.593	538368.598	236281.452	
PS27	ROOOFING EYE	Type E	B125	145.693	144.468	0.325	538390.751	236292.273	
PS28	4500	Type E	B125	144.346	143.346	0.900	538370.081	236269.653	
PS29	4500	Type E	B125	144.440	143.175	1.165	538379.504	236257.689	
PS30	4500	Type E	B125	144.207	142.757	1.300	538393.834	236259.365	
PS31	4500	Type E	B125	144.168	142.600	1.568	538392.538	236257.026	</