

ARUP	Ove Arup & Partners 4 Pierhead street Capital Waterside Cardiff CF1 5QP Tel - 01222 473727		WAST AFSRC Wrexham		SURFACE WATER DRAINAGE MANHOLE SCHEDULE										Sheet No. 1	Job No. 213833	Made by DL	Date 17-Jun-14	Chkd DL	Approved PC
	Plan Ref. P030-ARU-C-A00-BG-GA-100 T5										Drg. No. P030-ARU-C-A00-C-BG-SH-110			Rev T5						
	MH No.	Manhole Details						Cover Details		Pipe Details						Remarks	Revision			
		Size	Types			Levels		Depth to IL	BS EN 124	Cover Size clear opening	Size in	Size out	Invert level in	Backdrop	Invert level out					
			Poly	Brick	Conc.	App.Cover	Invert													
S1	1200			X	94.894	93.544	1.350	D400	675x675		300				93.539	GENERAL NOTES:				
S2	1200			X	93.528	92.178	1.350	D400	675x675	300	300	92.183			92.173					
S3	1200			X	92.690	91.340	1.350	D400	675x675	300	300	91.345			91.335					
S4	1200			X	92.540	91.191	1.349	D400	675x675	300	300	91.196			91.186					
S5	1200			X	92.441	91.056	1.385	D400	675x675	300	300	91.061			91.051					
S6.1	1350			X	92.007	90.550	1.457	D400	675x675		450				90.545					
S6.2	1350			X	92.178	90.507	1.671	D400	675x675	450	450	90.512			90.502					
S6	1350			X	92.025	90.042	1.983	D400	675x675	300	450	90.197			90.037					
										450		90.047								
S7.1	1350			X	91.380	89.963	1.417	D400	675x675		375				89.958					
S7.2	1350			X	91.604	89.854	1.750	D400	675x675	375	375	89.859			89.849					
S7	1350			X	91.799	89.595	2.204	D400	675x675	450	450	89.600			89.590					
										375		89.675								
S8	1350			X	92.033	89.581	2.452	D400	675x675	450	450	89.586			89.576					
S9.1	1200			X	92.016	90.591	1.425	D400	675x675		225				90.586					
S9.2	1200			X	92.141	90.464	1.677	D400	675x675	225	225	90.469			90.459					
S9	1350			X	91.943	89.570	2.373	D400	675x675	450	450	89.575			89.570					
										225		90.300	0.500							
SPI1	1350			X	91.897	89.465	2.432	D400	675x675	450	450	89.565	0.100	89.465	SPEL Bypass separator 318 C1/SC or similar approved					
S10	1350			X	91.871	89.460	2.411	D400	675x675	450	450	89.460			89.455	Attenuation cell A. Storage capacity 220m3.				
S11	1350			X	91.751	89.423	2.328	D400	675x675	450	450	89.428			89.418					
S12.1	1350			X	91.588	90.538	1.050	D400	675x675		450				90.533					
S12.2	1350			X	90.672	89.322	1.350	D400	675x675	450	450	89.327			89.317					
S12.3.1	1200			X	91.623	90.497	1.126	D400	675x675		300				90.492					
S12.3.2A	1200			X	91.913	91.013	0.900	D400	675x675		150				91.008					
S12.3.2B	1200			X	91.638	90.663	0.975	D401	675x675	150	225	90.743			90.658					
S12.3.2	1350			X	91.629	90.236	1.393	D400	675x675	300	375	90.316			90.231					
										225		90.391								
S12.3	1350			X	90.755	88.986	1.769	D400	675x675	450	450	88.991			88.981					
										375		89.066								
S16	1200			X	90.182	88.757	1.425	D400	675x675		225				88.752					
SPI3	1200			X	90.193	88.618	1.575	D400	675x675	225	225	88.673	0.050	88.613	SPEL Bypass separator 103 C1/SC or similar approved into rainwater harvesting tank					
S17	1200			X	90.227	88.580	1.647	D399	675x675	225	225	88.585			88.575					
S18	1200			X	90.270	88.515	1.755	D400	675x675	225	225	88.520			88.510	Attenuation Cell C. Storage volume 90m3		T5		
S19	1200			X	90.176	87.981	2.195	D400	675x675	225	225	87.986			87.976					
Pumping Station	1200			X	89.435	87.447	1.988	D400	675x675	225	225	87.452			87.442	Surface water pump. Pumping rate 4.5l/s. Pressure main specification to be provided by pumping station manufacturer		T5		
S12.3A	1350			X	90.744	88.936	1.808	D400	675x675	450	450	88.941			88.931	Incoming surface water rising main				
										225		88.941								
S12.4.1	1200			X	91.144	89.794	1.350	D400	675x675		150				89.789					
S12.4	1350			X	90.805	88.886	1.919	D400	675x675	450	450	88.891			88.881					
										150		89.191								
S12.5	1350			X	90.651	88.868	1.783	D400	675x675	450	450	88.873			88.863					
SPI2	1350			X	90.629	88.764	1.865	D400	675x675	450	450	88.819	0.050	88.764	SPEL Bypass separator 318C1/SC or similar approved.					
S12.6	1350			X	90.617	88.754	1.863	D400	675x675	450	450	88.754			88.754					
S12.7	1500			X	90.690	88.668	2.022	D400	675x675	450	525	88.743			88.663	Attenuation Cell B. Storage capacity 675m3. Storage increase		T5		
S12	1500			X	91.234	88.579	2.655	D400	675x675	450	525	88.584			88.579					
										525		88.584								
S13	1500			X	91.223	88.569	2.654	D400	675x675	525	300	88.569			88.564	Flow control chamber with dual orifice plate as shown on Details Drawing DT-202. Chamber to be 1500mm dia				
S					90.691	OUTFALL				300	-	88.534				Precast concrete headwall. Althton H3C or similar approved				

Notes:

1. Where depth to cover from soffit of pipe is less than 1.2m, DMRB SHW 150mm thick Class Z bedding and surround to be used.