



South Wokingham Distributor Road - Spine Road and Western Gateway Phase 1

**Specification Appendices - 500 Series -
Drainage Schedule
WMHP-TG-SRWG1-SH-DD-0501**

(Revision P08, Date 13/06/2025)



Balfour Beatty

South Wokingham Distributor Road - Spine Road and Western Gateway Phase 1

Specification Appendices - 500 Series - Drainage Schedule

Wokingham Borough Council

Document no: WMHP-TG-SRWG1-SH-DD-0501

Revision: P08

Date: 13/06/2025



This page is intentionally left blank

Document Issue Record

Project:	South Wokingham Distributor Road - Spine Road and Western Gateway Phase 1
Report Title:	Specification Appendices - 500 Series - Drainage Schedule
Client:	Wokingham Borough Council
Document No:	WMHP-TG-SRWG1-SH-DD-0501
Revision:	P08
Status	S3 - Suitable for review and comment
Date:	13/06/2025
Filename:	WMHP-TG-SRWG1-SH-DD-0501

Rev	Date	Description and Purpose of Issue	Prepared	Reviewed	Approved
P02	30/09/21	Updated for SCO comments	ALT	MH	BH
P03	01/04/22	Updated for Internal Review	ALT	MH	BH
P04	12/04/22	Abutment Drainage Updated	MH	BH	JC
P05	27/05/22	Matters outstanding WMHP-TG-SRWG1-RG-DM-0010	MH	BH	JC
P06	19/01/24	VE Roundabout Update	JB	DJF	JC
P07	23/09/24	Update to CH 2-2.000 and CH 2-1.000	JB	DJF	JC
P08	13/06/25	Minor updates for SSEN Coordination	MH	DJF	JC

Issuing Office:	Tony Gee and Partners LLP, Hardy House, 140 High Street Esher, Surrey, KT10 9QJ
Tel:	+44 1372 461600
Email:	esher@tonygee.com

Contents

APPENDIX 5/1 DRAINAGE SCHEDULES	6
1 Manholes and Catchpits	6
2 Pipe lengths and beddings	46
3 Road Gullies	55
4 Combined Kerbs and Drainage Systems	65
5 Developer (Persimmon/Consortium) Sewers	66

APPENDIX 5/1 DRAINAGE SCHEDULES

1 Manholes and Catchpits

Notes:

- a. Chamber depth identified doesn't include the sump. The minimum sump depth for catchpits shall be 300mm, except where noted.
- b. Gully connections are not defined within the chamber schedule.
- c. Refer to plan drawings WMHP-TG-SRWG1-DR-DD-0501 to WMHP-TG-SRWG1-DR-DD-0509 for pipe type e.g. Carrier or Filter pipe.
- d. Refer to specification WMHP-TG-SRWG1-SP-HI-0501 for catchpit construction details.

Catchment 1, Existing Network in Finchampstead Road and Existing Tesco Network

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes	
	Easting	Northing				L*W	Pipe Out			Pipe In				
							Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL		Dia (mm)
CP 2-1.000	480983.891	167842.406	501	51.540	1.350	1200	PN 1-1.000	50.190	150				Catchpit access with solid cover, D400 minimum, 675x675 mm opening	

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
CP 2-2.000	480991.894	167852.040	501	51.550	1.050	1200	PN 1-2.000	50.500	150				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 1-1.000	480978.877	167862.528	501	51.379	1.529	1200	PN 1-2.001	49.850	150	PN 1-2.000	50.329	150	Catchpit access with solid cover, D400 minimum, 675x675 mm opening

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
CP 1-1.001	480971.045	167853.255	501	51.383	1.655	1200	PN 1-1.001	49.729	150	PN 1-1.000	49.729	150	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
										PN 1-2.001	50.022	150	
CP 1-1.002	480950.092	167870.950	501	50.922	1.468	1200	PN 1-1.002	49.454	150	PN 1-1.001	49.454	150	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 1-1.003	480955.101	167881.126	501	50.618	1.277	1200	PN 1-1.003	49.341	150	PN 1-1.002	49.341	150	Catchpit access with solid cover, D400 minimum, 675x675 mm opening

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
							Pipe Out			Pipe In			
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
CP 1-1.004	480985.752	167861.914	501	51.548	2.279	2100	PN 1-1.004	49.269	150	PN 1-1.003	49.269	150	COMPLEX FLOW CONTROL CHAMBER TO HOUSE: VORTEX FLOW CONTROL DEVICE DESIGN HEAD = 0.5m DESIGN FLOW = 0.4l/s IL = 49.269 (MD-SHE-0034-4000-0500-4000) ORIFICE PLATE DIAMETER = 0.05m DEPTH ABOVE INVERT = 0.600m WEIR WALL DEPTH ABOVE INVERT = 0.750m SEE DRAWING WMHP-TG-SRWG1-DR-DD-0521 FOR DETAILS
CP 1-1.005	480988.520	167860.333	501	51.568	2.331	1200	PN 1-1.005	49.237	150	PN 1-1.004	49.237	150	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
HW 1-1.000-B	481000.526	167867.019	501					OUTFALL		PN 1-1.005	48.800	150	HEADWALL TYPE B SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
CP T-1.000	480966.921	167846.270	501	50.800	1.770	1350	PN T-1.000	49.030	400	EXISTING	49.030	400	CHAMBER TO BE CONSTRUCTED ON EXISTING TESCO NETWORK OUTFALL
HW T-1.000-B	481001.400	167864.709	501				PN T-1.000	48.780	400				HEADWALL TYPE SFA SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS

1.1 Catchment 2

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
CP 2-1.000	480983.891	167842.406	501	51.425	1.063	1200	PN 2-1.000	50.362	225				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 2-2.000	480992.936	167851.200	501	51.547	1.122	1200	PN 2-2.000	50.425	225				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 2-3.000	481058.954	167754.068	501	52.302	0.849	600	PN 2-3.000	51.453	225				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 2-3.001	481052.880	167777.610	501	51.392	0.867	600	PN 2-3.001	50.525	225	PN 2-3.000	50.525	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 2-2.001	481042.255	167799.479	501	50.995	1.202	1200	PN 2-2.001	49.913	300	PN 2-2.000	49.988	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
										PN 2-3.001	49.793	225	
CP 2-4.000	481044.702	167689.868	501	52.189	0.967	1050	PN 2-4.000	51.222	150				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 2-4.001	481027.240	167714.981	501	52.187	1.352	1200	PN 2-4.001	50.835	225	PN 2-4.000	50.910	150	Catchpit access with solid cover, D400 minimum, 675x675 mm opening

CP 2-5.000	481013.869	167730.192	501	51.716	1.088	1050	PN 2-5.000	50.628	300				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 2-4.002	481027.857	167733.970	501	52.264	1.695	1200	PN 2-4.002	50.569	300	PN 2-4.001	50.703	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
										PN 2-5.000	50.569	300	
CP 2-4.003	481042.173	167754.501	501	52.086	1.620	1200	PN 2-4.003	50.466	300	PN 2-4.002	50.466	300	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 2-1.001	481031.490	167791.904	501	50.991	1.224	1350	PN 2-1.001	49.767	400	PN 2-1.000	49.951	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
										PN 2-2.001	49.867	300	
										PN 2-4.003	49.867	300	
HW 2-1.001-SFA	481024.213	167786.861	501							PN 2-1.001	49.559	400	HEADWALL TYPE SFA SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW 2-1.002-SFA	480993.634	167815.369	501				PN 2-1.002	49.059	400				HEADWALL TYPE SFA SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS

CP 2-1.003	480978.012	167832.702	501	51.161	2.172	2100	PN 2-1.003	48.989	375	PN 2-1.002	48.989	400	COMPLEX FLOW CONTROL CHAMBER TO HOUSE : VORTEX FLOW CONTROL DEVICE DESIGN HEAD = 0.87m DESIGN FLOW = 2.2l/s IL = 49.059 (MD-SHE-0072-2200-0870-2200) ORIFICE PLATE DIAMETER = 0.09m DEPTH ABOVE INVERT = 0.876m WEIR WALL DEPTH ABOVE INVERT = 1.085m SEE DRAWING WMHP-TG- SRWG1-DR-DD-0521 FOR DETAILS
HW 2-1.003-B	481001.551	167860.152	502					OUTFALL		PN 2-1.003	48.876	375	HEADWALL TYPE B SEE DRAWING WMHP-TG- SRWG1-DR-DD-0522 FOR DETAILS

1.2 Catchment 3

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
CP 3-1.000	481081.135	167708.964	501	52.804	1.306	1200	PN 3-1.000	51.498	300				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 3-2.000	481227.777	167713.158	502	53.371	1.219	1200	PN 3-2.000	52.152	225				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 3-2.001	481181.083	167704.864	502	52.332	1.032	600	PN 3-2.001	51.300	225	PN 3-2.000	51.300	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 3-1.001	481153.888	167704.620	501	52.465	1.389	1200	PN 3-1.001	51.076	300	PN 3-1.000	51.076	300	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
										PN 3-2.001	51.154	225	
CP 3-3.000	481083.801	167725.578	502	52.789	1.363	1200	PN 3-3.000	51.426	225				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 3-4.000	481224.237	167722.636	502	53.328	1.219	1200	PN 3-4.000	52.109	225				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 3-4.001	481180.626	167717.156	502	52.339	1.039	600	PN 3-4.001	51.300	225	PN 3-4.000	51.300	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
CP 3-1.002	481153.964	167716.920	502	52.465	1.535	1200	PN 3-1.002	50.930	300	PN 3-1.001	50.930	300	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
										PN 3-3.000	51.005	225	
										PN 3-4.001	51.005	225	
CP 3-1.003	481153.965	167735.813	502	51.358	1.280	1200	PN 3-1.003	50.078	300	PN 3-1.002	50.078	300	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
HW 3-1.001-D	481148.358	167736.651	502							PN 3-1.003	50.052	300	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW 3-1.002-D	481112.985	167739.950	501				PN 3-1.004	49.50	300				HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
CP 3-1.005	481105.702	167739.230	501	50.928	1.457	2100	PN 3-1.005	49.471	225	PN 3-1.004	49.471	300	COMPLEX FLOW CONTROL CHAMBER TO HOUSE : VORTEX FLOW CONTROL DEVICE DESIGN HEAD = 0.3m DESIGN FLOW = 2.2l/s IL = 49.471 (MD-SHE-0072-2200-0870-2200) ORIFICE PLATE DIAMETER = 0.1m DEPTH ABOVE INVERT = 0.67m WEIR WALL DEPTH ABOVE INVERT = 0.907m SEE DRAWING WMHP-TG-SRWG1-DR-DD-0521 FOR DETAILS
HW 3-1.003-D	481085.519	167753.778	501					OUTFALL		PN 3-1.005	49.354	225	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS

1.3 Catchment 4

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
							Pipe Out			Pipe In			
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
CP 4-1.000	481776.865	167732.873	503	61.107	1.233	1200	PN 4-1.000	59.874	225				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 4-1.001	481704.834	167712.633	503	60.460	1.172	600	PN 4-1.001	59.288	225	PN 4-1.000	59.288	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 4-1.002	481631.285	167705.405	503	59.715	1.227	1200	PN 4-1.002	58.488	225	PN 4-1.001	58.488	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 4-1.003	481542.475	167717.160	503	58.836	1.201	1200	PN 4-1.003	57.635	225	PN 4-1.002	57.635	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 4-1.004	481468.898	167736.947	503	55.983	1.296	1200	PN 4-1.004	54.687	300	PN 4-1.003	54.762	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening

CP 4-1.005	481412.087	167749.280	502	53.734	1.027	1200	PN 4-1.005	52.707	300	PN 4-1.004	52.707	300	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 4-2.000	481335.584	167749.565	502	54.336	1.088	600	PN 4-2.000	53.248	150				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 4-1.006	481377.858	167756.543	502	53.211	1.380	1200	PN 4-1.006	51.831	300	PN 4-1.005	51.838	300	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
										PN 4-2.000	51.981	150	
CP 4-3.000	481337.242	167740.375	503	54.352	0.892	600	PN 4-3.000	53.460	150				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 4-4.000	481779.949	167718.783	503	61.104	1.154	600	PN 4-4.000	59.950	150				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 4-4.001	481716.578	167703.050	503	60.547	1.391	1200	PN 4-4.001	59.156	225	PN 4-4.000	59.231	150	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 4-4.002	481628.536	167690.957	503	59.689	1.225	1200	PN 4-4.002	58.464	225	PN 4-4.001	58.464	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 4-4.003	481552.350	167702.072	503	58.999	1.182	600	PN 4-4.003	57.817	225	PN 4-4.002	57.817	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening

CP 4-4.004	481479.669	167719.074	502	56.584	1.229	1200	PN 4-4.004	55.355	225	PN 4-4.003	55.355	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 4-4.005	481412.743	167736.483	502	53.858	1.280	1200	PN 4-4.005	52.578	300	PN 4-4.004	52.653	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 4-1.007	481377.488	167741.831	502	53.290	1.589	1350	PN 4-1.007	51.701	375	PN 4-1.006	51.769	300	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
										PN 4-3.000	52.334	150	
										PN 4-4.005	51.777	300	
CP 4-1.008	481383.248	167727.524	502	52.033	1.464	1350	PN 4-1.008	50.569	375	PN 4-1.007	50.569	375	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
HW 4-1.001-SFA	481378.884	167723.329	502							PN 4-1.008	50.550	375	HEADWALL TYPE SFA SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW 4-1.002-SFA	481341.809	167713.149	502				PN 4-1.009	50.500	375				HEADWALL TYPE SFA SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS

CP 4-1.009	481338.893	167708.043	502	52.000	1.540	2100	PN 4-1.010	50.460	225	PN 4-1.009	50.460	375	COMPLEX FLOW CONTROL CHAMBER TO HOUSE : VORTEX FLOW CONTROL DEVICE DESIGN HEAD = 1.2m DESIGN FLOW = 4.4l/s IL = 50.460 (MD-SHE-0096-4400-1200-4400) ORIFICE PLATE DIAMETER = 0.112m DEPTH ABOVE INVERT = 0.655m WEIR WALL DEPTH ABOVE INVERT = 0.990m SEE DRAWING WMHP-TG-SRWG1-DR-DD-0521 FOR DETAILS
HW 4-1.003-D	481335.019	167701.247	502							PN 4-1.010	49.585	225	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW 4-1.004-D	481333.920	167699.319	502				PN 4-1.011	49.573	225				HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW 4-1.005-D	481331.554	167695.163	502					OUTFALL		PN 4-1.011	49.550	225	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS

1.4 Catchment 5

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
CP 4-4.000	481779.949	167718.783	504	61.079	0.749	1200	PN 5-1.000	60.330	225				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 5-1.001	481874.776	167740.019	504	58.886	1.280	1200	PN 5-1.001	57.606	300	PN 5-1.000	57.922	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 5-1.002	481905.243	167741.863	504	57.800	1.224	1200	PN 5-1.002	56.576	300	PN 5-1.001	56.576	300	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 5-1.003	481963.822	167736.653	504	57.443	1.355	1200	PN 5-1.003	56.088	375	PN 5-1.002	56.088	300	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 5-1.004	482044.665	167724.405	505	57.013	1.355	1350	PN 5-1.004	55.658	375	PN 5-1.003	55.658	375	Catchpit access with solid cover, D400 minimum, 675x675 mm opening

CP 5-1.005	482133.080	167738.725	505	56.564	1.380	1350	PN 5-1.005	55.184	400	PN 5-1.004	55.209	375	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 5-1.006	482214.207	167777.490	505	56.133	1.430	1350	PN 5-1.006	54.703	450	PN 5-1.005	54.753	400	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 4-1.000	481776.865	167732.873	504	61.080	0.826	1200	PN 5-2.000	60.254	225				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 5-2.001	481870.445	167754.246	504	58.985	1.280	1200	PN 5-2.001	57.705	300	PN 5-2.000	57.984	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 5-2.002	481960.217	167749.888	504	57.473	1.355	1200	PN 5-2.002	56.118	375	PN 5-2.001	56.193	300	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 5-2.003	482048.353	167738.958	505	56.995	1.355	1350	PN 5-2.003	55.640	375	PN 5-2.002	55.640	375	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 5-2.004	482122.310	167750.259	505	56.635	1.380	1350	PN 5-2.004	55.255	400	PN 5-2.003	55.280	375	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 5-2.005	482199.947	167785.635	505	56.175	1.434	1350	PN 5-2.005	54.741	450	PN 5-2.004	54.791	400	Catchpit access with solid cover, D400 minimum, 675x675 mm opening

CP 5-2.006	482256.247	167823.378	505	55.820	1.446	1350	PN 5-2.006	54.374	500	PN 5-2.005	54.374	450	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 5-1.007	482264.946	167808.208	505	55.911	1.575	1350	PN 5-1.007	54.336	500	PN 5-1.006	54.386	450	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
										PN 5-2.006	54.336	500	
CP 5-3.000	482246.694	167859.048	505	56.080	1.280	1200	PN 5-3.000	54.800	300				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 5-1.008	482286.336	167821.496	505	55.985	1.985	1350	PN 5-1.008	54.000	500	PN 5-1.007	54.000	500	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
										PN 5-3.000	54.486	300	
CP 5-1.009	482309.436	167805.868	505	55.400	1.700	1350	PN 5-1.009	53.700	500	PN 5-1.008	53.700	500	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
HW 5-1.001	482311.059	167797.369	505					OUTFALL		PN 5-1.009	53.640	500	NETWORK TO OUTFALL VIA CULVERT C WINGWALL SEE DRAWING WMHP-TG-SRWG1-DR-SE-0598 FOR DETAILS

1.5 Catchment 6

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
CP 6-1.000	482754.596	167702.829	507	63.217	1.159	1200	PN 6-1.000	62.058	150				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 6-1.001	482775.311	167749.021	507	62.801	1.325	1200	PN 6-1.001	61.476	225	PN 6-1.000	61.551	150	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 6-1.002	482785.622	167826.835	506	61.509	1.200	1200	PN 6-1.002	60.309	225	PN 6-1.001	60.309	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 6-2.000	482770.702	167704.934	507	63.152	1.131	1200	PN 6-2.000	62.021	150				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 6-2.001	482788.560	167738.585	507	62.934	1.368	1200	PN 6-2.001	61.566	225	PN 6-2.000	61.641	150	Catchpit access with solid cover, D400 minimum, 675x675 mm opening

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
CP 6-2.002	482802.461	167812.747	506	61.780	1.199	1200	PN 6-2.002	60.581	225	PN 6-2.001	60.581	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 6-3.000	482953.435	167866.478	506	62.960	1.495	1200	PN 6-3.000	61.465	150				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 6-3.001	482919.348	167850.534	506	62.560	1.574	1200	PN 6-3.001	60.986	225	PN 6-3.000	61.061	150	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 6-3.002	482830.965	167834.984	506	61.598	1.578	1200	PN 6-3.002	60.020	300	PN 6-3.001	60.095	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 6-2.003	482811.800	167828.683	506	61.555	1.655	1200	PN 6-2.003	59.900	300	PN 6-2.002	60.259	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
										PN 6-3.002	59.900	300	

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes	
	Easting	Northing				L*W	Pipe Out			Pipe In				
							Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL		Dia (mm)
CP 6-1.003	482781.515	167844.513	506	61.176	1.492	1350	PN 6-1.003	59.684	375	PN 6-1.002	59.834	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening	
										PN 6-2.003	59.759	300		
CP 6-1.004	482749.137	167865.981	506	60.831	1.308	1350	PN 6-1.004	59.523	375	PN 6-1.003	59.523	375	Catchpit access with solid cover, D400 minimum, 675x675 mm opening	
CP 6-1.005	482667.273	167902.176	506	59.919	1.356	1350	PN 6-1.005	58.563	375	PN 6-1.004	58.563	375	Catchpit access with solid cover, D400 minimum, 675x675 mm opening	
CP 6-1.006	482577.869	167907.034	506	58.998	1.380	1350	PN 6-1.006	57.618	400	PN 6-1.005	57.643	375	Catchpit access with solid cover, D400 minimum, 675x675 mm opening	
CP 6-1.007	482488.517	167905.416	506	58.100	1.380	1350	PN 6-1.007	56.720	400	PN 6-1.006	56.720	400	Catchpit access with solid cover, D400 minimum, 675x675 mm opening	

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W	Pipe Out			Pipe In			
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
CP 6-1.008	482459.300	167912.211	506	57.826	1.381	1350	PN 6-1.008	56.445	400	PN 6-1.007	56.445	400	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 6-1.009	482400.578	167908.071	505	57.081	1.380	1350	PN 6-1.009	55.701	400	PN 6-1.008	55.701	400	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 6-1.010	482356.988	167873.242	505	56.436	1.380	1350	PN 6-1.010	55.056	400	PN 6-1.009	55.056	400	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 6-4.000	482948.079	167877.867	506	62.780	1.385	1200	PN 6-4.000	61.395	225				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 6-4.001	482865.224	167854.648	506	62.041	1.537	1200	PN 6-4.001	60.504	225	PN 6-4.000	60.504	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 6-4.002	482777.643	167870.093	506	60.919	1.280	1200	PN 6-4.002	59.639	300	PN 6-4.001	59.714	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes	
	Easting	Northing				L*W	Pipe Out			Pipe In				
							Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL		Dia (mm)
CP 6-4.003	482750.660	167884.490	506	60.666	1.279	1200	PN 6-4.003	59.387	300	PN 6-4.002	59.387	300	Catchpit access with solid cover, D400 minimum, 675x675 mm opening	
CP 6-4.004	482667.737	167918.390	506	59.800	1.279	1200	PN 6-4.004	58.521	300	PN 6-4.003	58.521	300	Catchpit access with solid cover, D400 minimum, 675x675 mm opening	
CP 6-4.005	482577.906	167919.422	506	59.015	1.355	1350	PN 6-4.005	57.660	375	PN 6-4.004	57.735	300	Catchpit access with solid cover, D400 minimum, 675x675 mm opening	
CP 6-4.006	482488.298	167918.425	506	58.098	1.356	1350	PN 6-4.006	56.742	375	PN 6-4.005	56.742	375	Catchpit access with solid cover, D400 minimum, 675x675 mm opening	
CP 6-4.007	482461.673	167924.629	505	57.811	1.355	1350	PN 6-4.007	56.456	375	PN 6-4.006	56.456	375	Catchpit access with solid cover, D400 minimum, 675x675 mm opening	
CP 6-4.008	482375.136	167914.011	505	56.962	1.355	1350	PN 6-4.008	55.607	375	PN 6-4.007	55.607	375	Catchpit access with solid cover, D400 minimum, 675x675 mm opening	

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes	
	Easting	Northing				L*W	Pipe Out			Pipe In				
							Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL		Dia (mm)
CP 6-4.009	482346.094	167887.136	505	56.589	1.355	1350	PN 6-4.009	55.234	375	PN 6-4.008	55.234	375	Catchpit access with solid cover, D400 minimum, 675x675 mm opening	
CP 6-5.000	482258.397	167867.248	505	55.925	1.205	1200	PN 6-5.000	54.720	225				Catchpit access with solid cover, D400 minimum, 675x675 mm opening	
CP 6-5.001	482293.301	167848.413	505	55.740	1.486	1200	PN 6-5.001	54.254	225	PN 6-5.000	54.254	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening	
CP 6-4.010	482303.572	167853.802	505	55.906	2.084	1350	PN 6-4.010	53.822	450	PN 6-4.009	54.656	375	Catchpit access with solid cover, D400 minimum, 675x675 mm opening	
										PN 6-5.001	54.047	225		
CP 6-4.011	482313.530	167835.795	505	55.911	2.177	1350	PN 6-1.011	53.734	450	PN 6-1.010	54.614	400	Catchpit access with solid cover, D400 minimum, 675x675 mm opening	
										PN 6-4.010	53.734	450		

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
HW 6-1.001-D	482319.318	167825.601	505					OUTFALL		PN 6-1.011	53.699	450	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS

1.6 Catchment 7

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
CP 6-1.000	482754.596	167702.829	507	63.188	1.205	1200	PN 7-1.000	61.983	225				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 7-1.001	482706.687	167658.325	507	62.301	1.205	1200	PN 7-1.001	61.096	225	PN 7-1.000	61.096	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 7-1.002	482677.550	167637.245	507	61.758	1.280	1200	PN 7-1.002	60.478	300	PN 7-1.001	60.553	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 7-1.003	482628.756	167605.553	507	60.895	1.280	1200	PN 7-1.003	59.615	300	PN 7-1.002	59.615	300	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 7-1.004	482584.064	167585.179	507	60.083	0.900	1200	PN 7-1.004	59.183	300	PN 7-1.003	59.183	300	Catchpit access with solid cover, D400 minimum, 675x675 mm opening

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
CP 7-2.000	482757.821	167687.661	507	63.182	1.205	1200	PN 7-2.000	61.977	225				Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 7-2.001	482720.776	167654.293	507	62.468	1.280	1200	PN 7-2.001	61.188	300	PN 7-2.000	61.263	225	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 7-2.002	482645.585	167604.604	507	61.060	1.280	1200	PN 7-2.002	59.780	300	PN 7-2.001	59.780	300	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
CP 7-1.005	482590.262	167571.583	507	60.018	0.900	1200	PN 7-1.005	59.118	300	PN 7-1.004	59.118	300	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
										PN 7-2.002	59.118	300	
HW 7-1.001-D	482592.836	167565.939	507							PN 7-1.005	58.869	300	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
HW 7-1.002-D	482587.129	167557.953	507				PN 7-1.007	58.824	300				HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS HEADWALL TO BE FITTED WITH 120mm DIAMETER ORIFICE PLATE AT INVERT LEVEL OG OUTGOING PIPE 58.824
HW 7-1.003-D	482582.265	167558.747	507					OUTFALL		PN 7-1.007	58.808	300	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW 7-1.004-D	482577.795	167547.518	507					OUTFALL		GULY LEAD	58.910	150	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW 7-1.005-D	482577.552	167548.074	507					OUTFALL		GULY LEAD	58.910	150	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
HW 7-1.006-D	482580.148	167559.533	507					OUTFALL		GULY LEAD	58.808	150	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW 7-1.007-D	482560.995	167547.044	507					OUTFALL		GULY LEAD	58.700	150	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW 7-1.008-D	482556.527	167547.895	507					OUTFALL		GULY LEAD	58.700	150	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW 7-1.009-D	482545.642	167535.641	507					OUTFALL		GULY LEAD	58.500	150	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW 7-1.010-D	482539.517	167540.713	507					OUTFALL		GULY LEAD	58.420	150	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW 7-1.011-D	482543.201	167546.150	507					OUTFALL		GULY LEAD	58.420	150	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
HW 7-1.012-D	482555.417	167581.899	507					OUTFALL		GULY LEAD	58.710	150	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW 7-1.013-D	482545.236	167585.304	507					OUTFALL		GULY LEAD	58.690	150	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW 7-1.014-D	482537.867	167588.802	507					OUTFALL		GULY LEAD	58.630	150	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW 7-1.015-D	482588.818	167532.291	507					OUTFALL		GULY LEAD	59.100	150	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW 7-1.016-D	482582.008	167525.217	507					OUTFALL		GULY LEAD	58.600	150	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS

1.7 Catchment O

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes	
	Easting	Northing				L*W	Pipe Out			Pipe In				
							Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL		Dia (mm)
HW O-1.001-D	481336.087	167770.931	502				PN O-1.001	50.301	225				HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS	
HW O-1.002-D	481331.296	167771.723	502					OUTFALL		PN O-1.001	50.178	225	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS	
HW O-2.001-D	OMITTED													
HW O-2.002-D	OMITTED													
HW O-3.001-D	481573.592	167718.427	503				PN O-3.001	57.447	300				HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS	

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
HW O-3.002-D	481567.870	167688.740	503					OUTFALL		PN O-3.001	57.263	300.00	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW O-4.001-D	481951.522	167765.734	504				PN O-4.001	54.470	300				HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW O-4.002-D	481963.071	167722.395	504					OUTFALL		PN O-4.001	54.272	300	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW O-5.001-D	OMITTED												
HW O-5.002-D													
HW O-6.001-D	482313.485	167873.679	505				PN O-6.001	53.650	300				HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W	Pipe Out			Pipe In			
							Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
HW O-6.002-D	482329.104	167831.342	505					OUTFALL		PN O-6.001	53.481	300	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW O-7.001-D	482608.192	167935.424	506				PN O-7.001	59.595	300				HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW O-7.002-D	482600.437	167934.547	506					OUTFALL		PN O-7.001	59.487	300	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS

Catchment R

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
CP R-1.001	482336.715	167798.876	505	56.084	1.034	1200	PN R-1.001	55.050	225	EXISTING	55.050	225	
CP R-1.002	482325.404	167811.801	505	56.050	1.440	1200	PN R-1.002	54.610	225	PN R-1.001	54.610	225	
HW R-1.001-D	482326.667	167820.335	505					OUTFALL		PN R-1.002	54.390	225	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW R-2.001-D	482332.515	167790.658	505							GULY LEAD	55.320	150	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW R-2.002-D	482331.715	167790.186	505				PN R-2.001	55.320	225				HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W	Pipe Out			Pipe In			
							Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
HW R-2.003-D	482327.024	167786.088	505					OUTFALL		PN R-2.001	55.283	225	NETWORK TO OUTFALL VIA CULVERT C WINGWALL SEE DRAWING WMHP-TG-SRWG1-DR-SE-0597 AND WMHP-TG-SRWG1-DR-SE-0598 FOR DETAILS
HW R-3.001	482319.362	167795.198	505					OUTFALL		GULY LEAD		150	NETWORK TO OUTFALL VIA CULVERT C WINGWALL SEE DRAWING WMHP-TG-SRWG1-DR-SE-0597 AND WMHP-TG-SRWG1-DR-SE-0598 FOR DETAILS

1.8 Catchment Q

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
HW Q-1.001-D	482580.540	167561.101	507	59.200	0.397		PN Q-1.001	58.803	300				HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
HW Q-2.001-D	482568.666	167583.670	507	59.300	0.581			OUTFALL		PN Q-1.001	58.719	300	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS

1.9 Catchment B

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
RE B-1.000	481310.450	167757.867	502	50.800			PN B-1.000	50.331	150				Rodding Eye
CP B-1.000	481324.081	167718.705	502	50.000	0.318	600	PN B-1.001	49.682	150	PN B-1.000	49.682	150	Catchpit access with solid cover, D400 minimum, 675x675 mm opening
HW B-1.000-D	481333.255	167701.558	502					OUTFALL		PN B-1.001	49.585	150	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS
RE B-2.000	481252.165	167703.923	502	50.700			PN B-2.000	50.169	150				Rodding Eye
HW B-1.000-D	481236.595	167743.647	502					OUTFALL		PN B-2.000	49.355	150	HEADWALL TYPE D SEE DRAWING WMHP-TG-SRWG1-DR-DD-0522 FOR DETAILS

1.10 Thames Water Culvert

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L*W							
						Pipe Out			Pipe In				
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
TWS01	482340.474	167926.999	591	57.715	3.995	4500*3000	PN TW-1.000-A	53.720	1200	EXISTING	53.720	1200	CHAMBER COVER CLASS TO BE MINIMUM D400 REFER TO DRAWING WMHP-TG-SRWG1-DR-DD-2500 FOR BESPOKE CHAMBER DETAILS
							PN TW-1.000-B	53.720	1200	EXISTING	54.490	1200	
TWS02 A	482219.499	167892.836	591	56.570	3.180	2400	PN TW-1.001-A	53.390	1200	PN TW-1.000-A	53.390	1200	
TWS03 A	482187.012	167837.862	591	56.350	3.030	2400	PN TW-1.002-A	53.320	1200	PN TW-1.001-A	53.320	1200	
TWS04 A	482167.537	167836.594	591	56.830	3.650	2400	PN TW-1.003-A	53.180	1200	PN TW-1.002-A	53.180	1200	
TWS05 A	482169.570	167795.548	591	55.810	2.740	2400	PN TW-1.004-A	53.070	1200	PN TW-1.003-A	53.070	1200	
TWS06 A	482181.782	167753.007	591	56.080	3.120	2400	PN TW-1.005-A	52.960	1200	PN TW-1.004-A	52.960	1200	
TWS07 A	482195.673	167667.520	591	55.500	2.770	2400	PN TW-1.006-A	52.730	1200	PN TW-1.005-A	52.730	1200	
TWS08 A	482202.463	167595.333	591	55.500	2.960	2400	PN TW-1.007-A	52.540	1200	PN TW-1.006-A	52.540	1200	

Chamber Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-DD-	Cover Level	Chamber Depth (m)	MH Diameter							Additional Notes
	Easting	Northing				L *W							
							Pipe Out			Pipe In			
						Dia (mm)	Pipe No.	US IL	Dia (mm)	Pipe No.	DS IL	Dia (mm)	
TW HW A	482226.587	167554.106	591					OUTFALL		PN TW-1.007-A	52.400	1200	ALTHON PRECAST CONCRETE HEADWALL SFA20 C OR EQUAL APPROVED
TWS02 B	482221.413	167890.375	591	56.570	3.170	2400	PN TW-1.001-B	53.400	1200	PN TW-1.000-B	53.400	1200	
TWS03 B	482189.036	167835.588	591	56.350	3.120	2400	PN TW-1.002-B	53.230	1200	PN TW-1.001-B	53.230	1200	
TWS04 B	482170.051	167834.353	591	56.830	3.650	2400	PN TW-1.003-B	53.180	1200	PN TW-1.002-B	53.180	1200	
TWS05 B	482171.874	167797.537	591	55.810	2.730	2400	PN TW-1.004-B	53.080	1200	PN TW-1.003-B	53.080	1200	
TWS06 B	482184.776	167752.413	591	56.080	3.110	2400	PN TW-1.005-B	52.970	1200	PN TW-1.004-B	52.970	1200	
TWS07 B	482198.679	167666.859	591	55.500	2.760	2400	PN TW-1.006-B	52.740	1200	PN TW-1.005-B	52.740	1200	
TWS08 B	482204.880	167596.748	591	55.500	2.930	2400	PN TW-1.007-B	52.570	1200	PN TW-1.006-B	52.570	1200	
TW HW B	482230.126	167556.176	591					OUTFALL		PN TW-1.007-B	55.400	1200	ALTHON PRECAST CONCRETE HEADWALL SFA20 C OR EQUAL APPROVED

2 Pipe lengths and beddings

Notes:

- a. Bedding type for carrier pipes to be Z beneath carriageway if less than 1.2m cover and S, T beneath verge. Pipe lengths are indicative only.
 - a. *Pipe has section which requires pipe and Type Z bedding and surround as per carrier pipe detail due to level of cover to pipe.
- b. All pipe bedding classes shall be in accordance with the MCHW Volume 3 Highway Construction Detail drawings F1 & F2.
- c. Backfill for carrier drains shall be in accordance with SHW Clause 505.2. Under existing and proposed roads this shall be taken to the underside of formation and the remainder brought up with the required thickness of sub-base and asphaltic concrete.
- d. Pipe Types – Carrier, Filter or Combined. Combined pipe type refers to a combined surface and subsurface drain i.e. collection from gully chambers and subsurface filter drains.

2.1 Catchment 1, Existing Network in Finchampstead Road and Existing Tesco Network

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN 1-1.000	150	16.841	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 1-2.000	150	16.717	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 1-2.001	150	12.138	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 1-1.001	150	27.426	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 1-1.002	150	11.342	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 1-1.003	150	36.174	PP/PE thermoplastic carrier drain and filter pipe within cellular storage. Refer to WMHP-TG-SRWG1-DR-DD-0572 for details.		
PN 1-1.004	150	3.188	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 1-1.005	150	13.742	Carrier Pipe	PP/PE Thermoplastic	S,T
EXISTING	400	EXISTING	Carrier Pipe	EXISTING	EXISTING
PN T-1.000	400	39.100	Carrier Pipe	PP/PE Thermoplastic	S,T

2.2 Catchment 2

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN 2-1.000	225	69.882	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 2-2.000	225	72.842	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 2-3.000	225	24.313	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 2-3.001	225	24.314	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 2-2.001*	300	13.163	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 2-4.000	150	31.178	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 2-4.001	225	18.999	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 2-5.000	300	14.489	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 2-4.002	300	25.029	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 2-4.003	300	40.313	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 2-1.001*	400	8.855	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 2-1.002*	400	23.334	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 2-1.003	375	36.160	Carrier Pipe	PP/PE Thermoplastic	S,T

2.3 Catchment 3

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN 3-1.000	300	72.886	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 3-2.000	225	47.452	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 3-2.001	225	27.201	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 3-1.001	300	12.300	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 3-3.000	225	71.208	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 3-4.000	225	44.093	Filter Pipe	PP/PE Thermoplastic	H,K,M,I

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN 3-4.001*	225	26.777	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 3-1.002*	300	18.893	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 3-1.003*	300	5.589	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 3-1.004*	300	7.219	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 3-1.005*	225	24.800	Carrier Pipe	PP/PE Thermoplastic	S,T

2.4 Catchment 4

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN 4-1.000	225	74.821	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 4-1.001	225	74.139	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 4-1.002	225	89.969	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 4-1.003	225	76.207	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 4-1.004*	300	58.134	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 4-1.005	300	34.991	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 4-2.000	150	43.438	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 4-1.006	300	14.716	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 4-3.000	150	40.301	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 4-4.000	150	65.294	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 4-4.001	225	89.072	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 4-4.002	225	77.092	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 4-4.003	225	74.643	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 4-4.004*	225	69.153	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 4-4.005	300	35.725	Filter Pipe	PP/PE Thermoplastic	H,K,M,I

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN 4-1.007*	375	15.424	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 4-1.008	375	5.973	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 4-1.009	225	5.879	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 4-1.010	225	7.823	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 4-1.011	225	4.702	Carrier Pipe	PP/PE Thermoplastic	S,T

2.5 Catchment 5

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN 5-1.000	225	97.513	Filter Pipe	Polyethylene	H,K,M,I
PN 5-1.001	300	30.533	Filter Pipe	Polyethylene	H,K,M,I
PN 5-1.002	300	58.952	Filter Pipe	Polyethylene	H,K,M,I
PN 5-1.003	375	82.085	Filter Pipe	Polyethylene	H,K,M,I
PN 5-1.004	375	89.976	Filter Pipe	Polyethylene	H,K,M,I
PN 5-1.005	400	90.252	Filter Pipe	Polyethylene	H,K,M,I
PN 5-1.006	450	59.327	Filter Pipe	Polyethylene	H,K,M,I
PN 5-2.000	225	96.012	Filter Pipe	Polyethylene	H,K,M,I
PN 5-2.001	300	90.153	Filter Pipe	Polyethylene	H,K,M,I
PN 5-2.002	375	89.141	Filter Pipe	Polyethylene	H,K,M,I
PN 5-2.003	375	75.051	Filter Pipe	Polyethylene	H,K,M,I
PN 5-2.004	400	85.652	Filter Pipe	Polyethylene	H,K,M,I
PN 5-2.005	450	67.781	Filter Pipe	Polyethylene	H,K,M,I
PN 5-2.006	500	17.487	Carrier Pipe	Polyethylene	S,T
PN 5-1.007	500	25.181	Filter Pipe	Polyethylene	H,K,M,I

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN 5-3.000	300	54.851	Carrier Pipe	Polyethylene	S,T
PN 5-1.008	500	27.890	Carrier Pipe	Polyethylene	S,T
PN 5-1.009	500	11.004	Carrier Pipe	Polyethylene	S,T

2.6 Catchment 6

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN 6-1.000	150	51.356	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-1.001	225	78.494	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-1.002	225	18.149	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-2.000	150	38.477	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-2.001*	225	75.453	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-2.002*	225	18.471	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-3.000	150	37.632	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-3.001	225	89.956	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-3.002	300	20.175	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-2.003	300	34.173	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 6-1.003	375	38.856	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-1.004	375	90.063	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-1.005	375	89.993	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-1.006	400	90.009	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-1.007	400	30.000	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-1.008	400	60.047	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-1.009	400	56.704	Filter Pipe	PP/PE Thermoplastic	H,K,M,I

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN 6-1.010	400	58.082	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-4.000	225	86.268	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-4.001	225	90.022	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-4.002	300	30.642	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-4.003	300	90.007	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-4.004	300	90.010	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-4.005	375	89.999	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-4.006	375	27.364	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-4.007	375	89.954	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-4.008	375	39.813	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-4.009	375	54.740	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-5.000	225	39.662	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-5.001	225	11.599	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 6-4.010	450	20.577	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 6-1.011	450	11.706	Carrier Pipe	PP/PE Thermoplastic	S,T

2.7 Catchment 7

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN 7-1.000	225	65.391	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 7-1.001*	225	35.962	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 7-1.002	300	58.183	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 7-1.003	300	49.117	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 7-1.004*	300	14.942	Carrier Pipe	PP/PE Thermoplastic	S,T

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN 7-2.000	225	49.857	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 7-2.001	300	90.127	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 7-2.002*	300	64.428	Filter Pipe	PP/PE Thermoplastic	H,K,M,I
PN 7-1.005	300	12.002	Carrier Pipe	PP/PE Thermoplastic	S,T
PN 7-1.007	300	3.924	Carrier Pipe	PP/PE Thermoplastic	S,T

2.8 Catchment O

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN O-1.001	225	4.856	Carrier Pipe	PP/PE Thermoplastic	S,T
PN O-2.001	OMITTED				
PN O-3.001	300	30.072	Carrier Pipe	PP/PE Thermoplastic	S,T
PN O-4.001	300	44.961	Carrier Pipe	PP/PE Thermoplastic	S,T
PN O-5.001	OMITTED				
PN O-6.001	300	45.047	Carrier Pipe	PP/PE Thermoplastic	S,T
PN O-7.001	300	7.807	Carrier Pipe	PP/PE Thermoplastic	S,T

2.9 Catchment R

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN R-1.001	225	17.175	Carrier Pipe	PP/PE Thermoplastic	S,T
PN R-1.002	225	8.626	Carrier Pipe	PP/PE Thermoplastic	S,T
PN R-2.001	225	6.228	Carrier Pipe	PP/PE Thermoplastic	S,T

2.10 Catchment Q

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN Q-1.001	300	25.349	Carrier Pipe	PP/PE Thermoplastic	S,T

2.11 Catchment B

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN B-1.000	150	57.563	See Structures Drawings	PP/PE Thermoplastic	See Structures Drawings
PN B-1.001	150	18.254	Carrier Pipe	PP/PE Thermoplastic	Z
PN B-2.000	150	51.398	See Structures Drawings	PP/PE Thermoplastic	See Structures Drawings

2.12 Thames Water Culvert

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN TW-1.000-A	1200	123.844	Carrier Pipe	Concrete	F
PN TW-1.001-A	1200	63.856	Carrier Pipe	Concrete	F
PN TW-1.002-A	1200	19.516	Carrier Pipe	Concrete	F
PN TW-1.003-A	1200	41.097	Carrier Pipe	Concrete	F
PN TW-1.004-A	1200	44.259	Carrier Pipe	Concrete	F
PN TW-1.005-A	1200	86.608	Carrier Pipe	Concrete	F
PN TW-1.006-A	1200	72.487	Carrier Pipe	Concrete	F
PN TW-1.007-A	1200	47.767	Carrier Pipe	Concrete	F
PN TW-1.000-B	1200	122.698	Carrier Pipe	Concrete	F
PN TW-1.001-B	1200	63.638	Carrier Pipe	Concrete	F
PN TW-1.002-B	1200	19.026	Carrier Pipe	Concrete	F

Pipe Number	Dia (mm)	Length (m)	Pipe Type	Pipe Material	Bedding Class
PN TW-1.003-B	1200	36.861	Carrier Pipe	Concrete	F
PN TW-1.004-B	1200	46.932	Carrier Pipe	Concrete	F
PN TW-1.005-B	1200	86.650	Carrier Pipe	Concrete	F
PN TW-1.006-B	1200	70.412	Carrier Pipe	Concrete	F
PN TW-1.007-B	1200	47.785	Carrier Pipe	Concrete	F

3 Road Gullies

3.1 Catchment 1

Gully Reference	Co-ordinates		Min outlet Dia (mm)
	Easting	Northing	
GU-1.01	480879.133	167867.742	150
GU-1.02	480888.530	167892.032	150
GU-1.03	480895.063	167903.427	150
GU-1.04	480904.481	167914.709	150
GU-1.05	480919.533	167923.497	150
GU-1.06	480916.718	167913.353	150
GU-1.07	480916.697	167904.924	150
GU-1.08	480921.792	167896.800	150
GU-1.09	480941.757	167887.562	150
GU-1.10	480956.983	167877.958	150
GU-1.11	480968.469	167868.258	150
GU-1.12	480976.506	167861.476	150
GU-1.13	480986.435	167853.084	150
GU-1.14	480981.702	167847.528	150
GU-1.15	480971.770	167855.916	150
GU-1.16	480961.838	167864.304	150
GU-1.17	480952.251	167872.403	150
GU-1.18	480937.312	167879.011	150
GU-1.19	480909.092	167873.425	150
GU-1.20	480887.028	167860.916	150
GU-1.21	480895.922	167886.056	150
GU-1.22	480899.471	167897.948	150
GU-1.23	480900.057	167898.336	150

3.2 Catchment 2

Gully Reference	Co-ordinates		Min outlet Dia (mm)
	Easting	Northing	
GU-2.01	480996.224	167835.434	150
GU-2.02	481005.794	167826.323	150
GU-2.03	481016.031	167815.691	150
GU-2.04	481024.807	167805.448	150
GU-2.05	481031.211	167796.812	150
GU-2.06	481031.475	167796.448	150
GU-2.07	481035.837	167789.831	150
GU-2.08	481040.090	167781.727	150
GU-2.09	481045.250	167764.663	150
GU-2.10	481042.459	167747.842	150
GU-2.11	481028.130	167731.619	150
GU-2.12	481014.381	167729.187	150
GU-2.13	481001.340	167730.273	150
GU-2.14	481000.802	167719.760	150
GU-2.15	481013.227	167720.363	150
GU-2.16	481026.800	167716.773	150
GU-2.17	481044.835	167701.167	150
GU-2.18	481046.641	167689.036	150
GU-2.19	481000.840	167841.445	150
GU-2.20	481010.754	167831.686	150
GU-2.21A	481020.433	167821.698	150
GU-2.22	481030.601	167810.042	150
GU-2.23	481037.276	167801.895	150
GU-2.24	481037.543	167801.533	150
GU-2.25	481042.792	167793.591	150
GU-2.26	481048.632	167781.908	150
GU-2.27	481054.423	167762.208	150
GU-2.28	481057.791	167748.091	150
GU-2.29	481058.287	167701.248	150
GU-2.30	481054.563	167688.786	150

3.3 Catchment 3

Gully Reference	Co-ordinates		Min outlet Dia (mm)
	Easting	Northing	
GU-3.01	481181.514	167714.685	150
GU-3.02	481181.964	167714.702	150
GU-3.03	481191.537	167715.260	150
GU-3.04	481200.374	167716.238	150
GU-3.05	481212.596	167718.344	150
GU-3.06	481226.363	167721.621	150
GU-3.07	481183.097	167707.440	150
GU-3.08	481183.547	167707.455	150
GU-3.09	481193.154	167708.074	150
GU-3.10	481202.040	167709.104	150
GU-3.11	481214.288	167711.239	150
GU-3.12	481228.085	167714.527	150
GU-3.13	481125.396	167708.328	150
GU-3.13A	481073.921	167711.575	150
GU-3.14	481125.885	167715.619	150
GU-3.14A	481076.559	167726.729	150
GU-3.15	481160.787	167714.352	150
GU-3.15A	481155.101	167714.401	150
GU-3.16	481173.583	167714.482	150
GU-3.17	481173.941	167707.173	150

3.4 Catchment 4

Gully Reference	Co-ordinates		Min outlet Dia (mm)
	Easting	Northing	
GU-4.01	481335.445	167748.644	150
GU-4.02	481354.647	167753.248	150
GU-4.03	481368.348	167754.500	150
GU-4.04	481380.351	167753.874	150
GU-4.05	481380.798	167753.819	150
GU-4.06	481392.421	167751.595	150
GU-4.07	481402.358	167749.145	150
GU-4.08	481417.151	167745.498	150
GU-4.09	481425.072	167743.545	150
GU-4.10	481437.663	167749.067	150
GU-4.11	481444.290	167747.468	150
GU-4.12	481447.343	167739.738	150

Gully Reference	Co-ordinates		Min outlet Dia (mm)
	Easting	Northing	
GU-4.13	481463.284	167735.505	150
GU-4.14	481481.841	167731.452	150
GU-4.15	481500.972	167725.678	150
GU-4.16	481526.096	167718.638	150
GU-4.17	481541.882	167714.746	150
GU-4.18	481553.480	167720.547	150
GU-4.19	481560.077	167718.994	150
GU-4.20	481564.536	167709.951	150
GU-4.20A	481573.896	167707.340	150
GU-4.21	481634.756	167702.770	150
GU-4.21A	481627.105	167703.013	150
GU-4.21B	481618.664	167703.176	150
GU-4.22	481336.960	167741.204	150
GU-4.23	481355.363	167743.831	150
GU-4.24	481368.328	167744.461	150
GU-4.25	481381.684	167744.085	150
GU-4.26	481382.132	167744.053	150
GU-4.27	481391.664	167743.109	150
GU-4.28	481401.350	167741.589	150
GU-4.29	481415.893	167738.289	150
GU-4.30	481430.518	167734.684	150
GU-4.31	481444.091	167731.337	150
GU-4.32	481452.652	167720.267	150
GU-4.33	481459.170	167718.316	150
GU-4.34	481471.765	167723.388	150
GU-4.35	481479.458	167721.485	150
GU-4.36	481499.391	167717.461	150
GU-4.37	481524.585	167711.492	150
GU-4.38	481553.775	167704.296	150
GU-4.38A	481540.325	167707.612	150
GU-4.39	481626.890	167693.473	150
GU-4.39A	481618.383	167693.670	150
GU-4.40	481683.328	167698.502	150
GU-4.41	481694.372	167691.804	150
GU-4.42	481701.055	167693.136	150
GU-4.43	481708.683	167703.561	150

3.5 Catchment 5

Gully Reference	Co-ordinates		Min outlet Dia (mm)
	Easting	Northing	
GU-5.01	481790.564	167733.857	150
GU-5.01A	481776.455	167730.197	150
GU-5.02	481804.890	167736.835	150
GU-5.03	481823.382	167741.545	150
GU-5.04	481845.878	167747.099	150
GU-5.05	481852.139	167757.129	150
GU-5.06	481858.709	167758.390	150
GU-5.07	481870.092	167751.685	150
GU-5.08	481883.641	167752.857	150
GU-5.09	481903.476	167753.577	150
GU-5.10	481917.440	167752.847	150
GU-5.11	482026.950	167736.982	150
GU-5.12	482095.255	167741.125	150
GU-5.12A	482088.089	167739.891	150
GU-5.13	482120.018	167746.853	150
GU-5.14	482127.412	167757.772	150
GU-5.15	482133.919	167759.957	150
GU-5.16	482142.060	167754.817	150
GU-5.17	482202.525	167784.366	150
GU-5.18	482244.645	167816.674	150
GU-5.19	482245.050	167816.870	150
GU-5.20	482254.882	167821.508	150
GU-5.21	482259.967	167824.576	150
GU-5.22	482267.511	167829.406	150
GU-5.23	482269.171	167837.558	150
GU-5.24	482266.885	167841.853	150
GU-5.25	482266.646	167842.234	150
GU-5.26	482259.667	167851.043	150
GU-5.27	482249.278	167859.054	150
GU-5.28	481793.086	167724.890	150
GU-5.28A	481778.948	167721.030	150
GU-5.29	481806.581	167729.297	150
GU-5.30	481826.563	167734.838	150
GU-5.31	481852.976	167740.327	150
GU-5.32	481871.045	167742.157	150

Gully Reference	Co-ordinates		Min outlet Dia (mm)
	Easting	Northing	
GU-5.33	481884.197	167743.373	150
GU-5.34	481902.063	167744.028	150
GU-5.35	481911.728	167735.439	150
GU-5.36	481918.745	167735.398	150
GU-5.37	481926.566	167743.899	150
GU-5.38	482026.450	167727.495	150
GU-5.39	482060.255	167727.361	150
GU-5.40	482070.992	167719.703	150
GU-5.41	482077.639	167720.393	150
GU-5.43	482097.025	167731.786	150
GU-5.43A	482089.633	167730.443	150
GU-5.44	482163.439	167752.259	150
GU-5.44A	482171.952	167755.311	150
GU-5.45	482180.891	167750.593	150
GU-5.46	482187.433	167753.976	150
GU-5.47	482188.061	167762.876	150
GU-5.48	482215.063	167780.915	150
GU-5.48A	482207.726	167776.236	150
GU-5.48B	482200.807	167771.879	150
GU-5.49	482255.775	167805.873	150
GU-5.49A	482245.787	167800.151	150
GU-5.50	482256.167	167806.095	150
GU-5.51	482262.485	167809.685	150
GU-5.52	482271.833	167814.997	150
GU-5.53	482280.218	167819.762	150
GU-5.54	482240.161	167813.899	150
GU-5.55	482233.588	167809.321	150
GU-5.56	482226.998	167803.058	150
GU-5.57	482215.431	167792.809	150
GU-5.57A	482224.865	167799.596	150
GU-5.58	482246.048	167860.759	150
GU-5.59	482245.626	167860.936	150

3.6 Catchment 6

Gully Reference	Co-ordinates		Min outlet Dia (mm)
	Easting	Northing	
GU-6.01	OMITTED		

Gully Reference	Co-ordinates		Min outlet Dia (mm)
	Easting	Northing	
GU-6.02	482267.987	167860.030	150
GU-6.03	482276.986	167853.918	150
GU-6.04	482282.544	167849.741	150
GU-6.05	482282.917	167849.489	150
GU-6.06	482287.056	167847.648	150
GU-6.07	482301.207	167849.723	150
GU-6.07A	482306.979	167852.687	150
GU-6.08	482792.972	167861.276	150
GU-6.09	482807.377	167856.516	150
GU-6.10	482827.205	167852.442	150
GU-6.10A	482817.089	167854.171	150
GU-6.10B	482946.130	167874.339	150
GU-6.11	482300.239	167831.138	150
GU-6.12	482305.836	167834.313	150
GU-6.13	482306.190	167834.544	150
GU-6.13A	482318.212	167841.229	150
GU-6.13B	482403.609	167912.050	150
GU-6.14	482775.449	167851.687	150
GU-6.15	482788.694	167831.101	150
GU-6.15A	482783.373	167847.121	150
GU-6.16	482787.213	167819.866	150
GU-6.17	482785.800	167809.197	150
GU-6.18	482783.806	167794.126	150
GU-6.19	482781.722	167778.383	150
GU-6.19A	482780.531	167769.382	150
GU-6.19B	482775.986	167739.067	150
GU-6.19C	482760.774	167706.739	150
GU-6.20	482793.160	167776.738	150
GU-6.20A	482790.974	167765.150	150
GU-6.20B	482789.348	167756.421	150
GU-6.21	482796.142	167792.635	150
GU-6.22	482798.921	167807.469	150
GU-6.23	482801.514	167818.513	150
GU-6.24	482806.011	167830.409	150
GU-6.25	482820.336	167837.077	150
GU-6.25A	482800.870	167840.497	150
GU-6.26	482825.547	167837.240	150

Gully Reference	Co-ordinates		Min outlet Dia (mm)
	Easting	Northing	
GU-6.26A	482949.089	167867.437	150
GU-6.26B	482939.117	167862.703	150
GU-6.27	482769.459	167693.433	150
GU-6.27A	482766.779	167701.928	150
GU-6.28	482624.806	167918.265	150
GU-6.28A	482613.760	167919.288	150
GU-6.28B	482664.935	167916.069	150
GU-6.28C	482679.737	167901.434	150
GU-6.28D	482732.600	167891.891	150
GU-6.29	482607.585	167927.048	150
GU-6.30	482600.895	167926.932	150
GU-6.31	482595.165	167919.059	150
GU-6.32	482530.927	167913.237	150
GU-6.32A	482521.972	167913.679	150
GU-6.32B	482513.240	167913.979	150
GU-6.33	482521.611	167904.186	150
GU-6.33A	482528.168	167903.999	150
GU-6.34	482248.470	167866.646	150
GU-6.35	482248.892	167866.449	150
GU-60.9A	482797.860	167859.495	150

3.7 Catchment 7

Gully Reference	Co-ordinates		Min outlet Dia (mm)
	Easting	Northing	
GU-7.01	482747.874	167691.421	150
GU-7.02	482734.681	167679.252	150
GU-7.03	482724.721	167671.114	150
GU-7.04	482715.492	167663.102	150
GU-7.05	482707.553	167655.804	150
GU-7.06	482694.976	167656.314	150
GU-7.07	482689.228	167652.153	150
GU-7.08	482685.874	167639.893	150
GU-7.09	482669.834	167629.405	150
GU-7.10	482653.877	167618.980	150
GU-7.11	482637.935	167608.565	150
GU-7.12	482621.183	167598.559	150
GU-7.13	482603.033	167590.240	150

Gully Reference	Co-ordinates		Min outlet Dia (mm)
	Easting	Northing	
GU-7.14	482585.573	167584.341	150
GU-7.15	482572.845	167579.225	150
GU-7.16	482562.744	167574.395	150
GU-7.17	482554.033	167573.780	150
GU-7.18	482543.848	167580.369	150
GU-7.19	482535.552	167586.787	150
GU-7.20	482525.476	167589.039	150
GU-7.21	482543.289	167569.998	150
GU-7.22	482550.796	167555.563	150
GU-7.23	482540.481	167540.710	150
GU-7.24	482753.331	167686.511	150
GU-7.25	482739.701	167671.879	150
GU-7.26	482730.919	167663.793	150
GU-7.27	482710.575	167648.271	150
GU-7.28	482677.107	167626.393	150
GU-7.29	482645.803	167605.941	150
GU-7.30	482619.084	167589.341	150
GU-7.31	482593.273	167574.560	150
GU-7.32	482572.052	167560.038	150
GU-7.33	482575.075	167546.928	150
GU-7.34	482575.271	167546.523	150
GU-7.35	482586.928	167530.416	150
GU-7.36	482583.137	167526.350	150
GU-7.37	482564.251	167549.075	150
GU-7.38	482555.560	167550.029	150
GU-7.39	482544.745	167537.374	150
GU-7.40	482765.340	167688.113	150

3.8 Catchment R

Gully Reference	Co-ordinates		Min outlet Dia (mm)
	Easting	Northing	
GU-R.01	482337.171	167795.173	150
GU-R.02	482333.209	167791.105	150
GU-R.03	482314.442	167808.692	150
GU-R.04	482322.119	167801.560	150
GU-R.05	482336.479	167803.216	150
GU-R.06	482331.127	167806.173	150

GU-R.07	482325.953	167806.063	150
---------	------------	------------	-----

4 Combined Kerbs and Drainage Systems

4.1 TESCO Road Roundabout

Kerb Reference	Combined Kerb and Drainage Unit	Notes
CKD05	ACO Kerbdrain HB 305	SEE DRAWING WMHP-TG-SRWG1-DR-DD-0501 FOR DETAILS
CKD06	ACO Kerbdrain HB 405	SEE DRAWING WMHP-TG-SRWG1-DR-DD-0501 FOR DETAILS
CKD07	ACO Kerbdrain HB 480	SEE DRAWING WMHP-TG-SRWG1-DR-DD-0501 FOR DETAILS
CKD08	ACO Kerbdrain HB 305	SEE DRAWING WMHP-TG-SRWG1-DR-DD-0501 FOR DETAILS
CKD09	ACO Kerbdrain HB 405	SEE DRAWING WMHP-TG-SRWG1-DR-DD-0501 FOR DETAILS
CKD10	ACO Kerbdrain HB 485	SEE DRAWING WMHP-TG-SRWG1-DR-DD-0501 FOR DETAILS

Outlet Reference	Co-ordinates		Min outlet Dia (mm)
	Easting	Northing	
OUT02	481038.840	167728.160	225

4.2 Emm Brook Overbridge

Kerb Reference	Combined Kerb and Drainage Unit	Notes
CKD11	FastFlow Type-I – FH240	SEE DRAWING WMHP-TG-SRWG1-DR-DD-0501 FOR DETAILS
CKD12	FastFlow Type-I – FH240	SEE DRAWING WMHP-TG-SRWG1-DR-DD-0501 FOR DETAILS

Outlet Reference	Co-ordinates		Min outlet Dia (mm)
	Easting	Northing	
OUT03	481243.632	167725.879	225
OUT04	481245.459	167718.837	225

5 Developer (Persimmon/Consortium) Sewers

Notes:

- Bedding type for carrier pipes to be Z beneath carriageway if less than 1.2m cover and S, T beneath verge. Pipe lengths are indicative only.
- All pipe bedding classes shall be in accordance with the MCHW Volume 3 Highway Construction Detail drawings F1 & F2.
- Backfill for carrier drains shall be in accordance with SHW Clause 505.2. Under existing and proposed roads this shall be taken to the underside of formation and the remainder brought up with the required thickness of sub-base and asphaltic concrete.
- Contractor to confirm and coordinate levels with Developer.

Sewer Reference	Coordinates		Drawing No.: WMHP-TG-SRWG1-DR-HI-	US Invert Level	DS Invert Level	Dia (mm)	Length (m)	Pipe Material	Bedding Class
	Easting	Northing							
SEWER 1 (Persimmon)	480989.689 480982.745	167853.518 167845.622	582	50.150	50.130	300	10.515	Polyethylene	S,T
SEWER 2 (Persimmon)	481031.929 481031.727	167713.393 167734.392	582	50.700	50.650	300	21.000	Polyethylene	S,T
SEWER 3 (Persimmon)	481040.300 481068.423	167705.781 167690.112	582	50.600	50.535	300	32.193	Polyethylene	S,T
SEWER 9 (Consortium)	482064.054 482074.398	167763.092 167707.354	584	53.980	53.340	300	56.694	Polyethylene	S,T
SEWER 10 (Consortium)	482123.696 482139.508	167778.989 167727.691	585	54.110	53.750	300	53.681	Polyethylene	S,T
SEWER 14 (Consortium)	481698.223 481701.555	167723.018 167686.227	583	d	d	300	36.941	Polyethylene	S,T
SEWER 15 (Consortium)	482179.774 482188.230	167782.530 167748.512	585	d	d	300	35.053	Polyethylene	S,T
SEWER 16 (Consortium)	482549.170 482532.338	167924.384 167875.582	586	d	d	300	51.623	Polyethylene	S,T