

ECMWF: Proposed SW Drainage Network Car Park + Eastern Road Catchment		Date: 07/08/2025			
Report Details: Type: Stormwater Controls Summary Storm Phase: Catchment 4 (Car Park and Eastern		Designed by: COB	Checked by: LJ		Approved By: CHF
		Company: BDP			

PP7	Design Criteria FSR: 30 years: +0 %: 240 mins: Winter	66.104	66.103	0.163	0.169	10.4	15.751	0.000	0.000	0.8	9.289	71.810	OK
Cellular Storage	Design Criteria FSR: 30 years: +0 %: 240 mins: Winter	66.102	66.102	1.172	1.172	12.6	14.426	0.000	0.000	7.3	125.376	5.424	OK
PP3.2	Design Criteria FSR: 30 years: +0 %: 120 mins: Winter	66.107	66.107	0.174	0.176	2.4	3.799	0.000	0.000	1.9	8.412	59.986	OK

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Design Criteria FSR: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Avg. Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
PP9	Design Criteria FSR: 100 years: +40 %: 30 mins: Winter	66.396	66.697	0.105	0.664	31.1	20.900	3.594	0.000	18.3	24.106	18.039	Flood
PP5.2	Design Criteria FSR: 100 years: +40 %: 480 mins: Winter	66.293	66.292	0.316	0.321	3.5	17.296	0.000	0.000	1.9	34.137	49.944	OK
PP1	Design Criteria FSR: 100 years: +40 %: 480 mins: Winter	66.293	66.293	0.342	0.343	1.5	8.616	0.000	0.000	1.1	18.310	4.572	OK
PP2	Design Criteria FSR: 100 years: +40 %: 480 mins: Winter	66.293	66.294	0.276	0.279	4.8	17.232	0.000	0.000	1.1	17.082	20.547	OK
PP3.1	Design Criteria FSR: 100 years: +40 %: 480 mins: Winter	66.294	66.294	0.329	0.331	1.6	6.971	0.000	0.000	0.6	8.586	24.525	OK
PP.8	Design Criteria FSR: 100 years: +40 %: 480 mins: Winter	66.292	66.292	0.108	0.297	2.5	11.421	0.000	0.000	1.9	29.659	60.268	OK
PP4.1	Design Criteria FSR: 100 years: +40 %: 480 mins: Winter	66.294	66.293	0.388	0.390	1.7	9.909	0.000	0.000	1.3	15.755	27.487	OK
PP4.2	Design Criteria FSR: 100 years: +40 %: 480 mins: Winter	66.294	66.294	0.353	0.358	4.2	28.451	0.000	0.000	1.7	34.411	33.518	OK
PP5.1	Design Criteria FSR: 100 years: +40 %: 480 mins: Winter	66.293	66.293	0.347	0.353	1.8	19.913	0.000	0.000	0.9	14.958	44.991	OK
PP6.1	Design Criteria FSR: 100 years: +40 %: 480 mins: Winter	66.293	66.292	0.301	0.305	6.0	21.708	0.000	0.000	0.9	16.389	51.846	OK
PP6.2	Design Criteria FSR: 100 years: +40 %: 480 mins: Winter	66.292	66.293	0.424	0.429	11.7	29.651	0.000	0.000	2.1	35.735	32.752	OK

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PP7	Design Criteria FSR: 100 years: +40 %: 480 mins: Winter	66.293	66.293	0.352	0.358	12.5	33.759	0.000	0.000	0.7	19.565	39.582	OK
Cellular Storage	Design Criteria FSR: 100 years: +40 %: 480 mins: Winter	66.292	66.292	1.362	1.362	9.3	14.607	0.000	0.000	6.0	272.003	4.243	OK
PP3.2	Design Criteria FSR: 100 years: +40 %: 480 mins: Winter	66.294	66.294	0.361	0.362	1.7	7.850	0.000	0.000	1.2	22.519	17.330	OK

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Design Criteria FSR: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
S12.000	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SWMH2 5	SWMH2 6	66.963	65.874	0.037	1.812	0.9	0.05	3.8	OK
S12.001	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SWMH2 6	SWMH2 7	66.917	65.676	0.060	2.201	0.5	0.07	4.5	OK
S13.000	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SWMH2 8	SWMH2 7	66.641	65.582	0.077	2.898	0.5	0.18	6.1	OK
S12.002	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SWMH2 7	SW.03	66.799	65.561	0.172	4.894	0.5	0.29	9.9	OK
S14.000	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SW.01	SW.02	66.704	65.657	0.075	4.055	0.7	0.24	8.5	OK
S14.001	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SW.02	SW.03	66.588	65.560	0.162	4.858	0.5	0.22	9.9	OK
S11.001	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SW.26	SW.24	66.705	65.662	0.166	6.143	0.8	0.25	10.4	OK
S12.003	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SW.03	SW.24	66.827	65.561	0.225	11.301	0.9	0.68	23.3	Surcharged
S3.011	Design Criteria FSR: 2 years: +0 %: 30 mins: Summer	Pipe	SW.29	SW.30	66.931	65.687	0.300	25.315	0.7	0.5	31.8	Surcharged
S15.001	Design Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	SWMH3 3	SWMH3 4	66.777	65.876	0.225	0.532	0.2	0.07	2.3	Surcharged
S15.002	Design Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	SWMH3 4	SWMH3 5	66.843	65.876	0.225	4.684	0.5	0.11	3.8	Surcharged

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S15.003	Design Criteria FSR: 2 years: +0 %: 30 mins: Summer	Pipe	SWMH3 5	SW.30	66.953	65.687	0.225	4.951	0.5	0.13	4.5	Surcharged
S17.000	Design Criteria FSR: 2 years: +0 %: 120 mins: Winter	Pipe	PP6.1	SWMH3 5	66.953	66.020	0.150	3.190	1.6	0.01	0.7	OK
S3.001	Design Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	SWMH1 2	SW.27	66.585	65.877	0.225	1.241	0.5	0.03	1.2	Surcharged
S3.000	Design Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	PP1	SWMH1 2	66.587	65.990	0.116	1.571	1.6	0.01	1.2	OK
S3.002	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SW.27	SWMH1 4	66.629	65.560	0.087	0.830	0.3	0.03	1.1	OK
S4.000	Design Criteria FSR: 2 years: +0 %: 60 mins: Winter	Pipe	PP2	SWMH1 4	66.662	66.044	0.150	2.768	2.0	0.01	1.4	OK
S3.003	Design Criteria FSR: 2 years: +0 %: 30 mins: Summer	Pipe	SWMH1 4	SWMH1 5	66.669	65.688	0.225	2.199	0.4	0.05	2.1	Surcharged
S3.006	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SW.28	SWMH1 8	66.674	65.560	0.225	3.064	0.5	0.14	5.1	Surcharged
S3.007	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SWMH1 8	SWMH1 9	66.729	65.560	0.225	3.169	0.5	0.15	5.6	Surcharged
S7.000	Design Criteria FSR: 2 years: +0 %: 60 mins: Winter	Pipe	PP4.1	SWMH1 8	66.724	65.970	0.150	1.709	1.6	0	0.6	OK
S8.000	Design Criteria FSR: 2 years: +0 %: 60 mins: Winter	Pipe	PP4.2	SWMH1 9	66.744	65.999	0.150	6.031	2.4	0.02	2.1	OK
S3.008	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SWMH1 9	SWMH2 0	66.742	65.560	0.225	4.400	0.5	0.17	6.6	Surcharged
S3.009	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SWMH2 0	SWMH2 1	66.856	65.560	0.225	4.245	0.4	0.17	6.6	Surcharged
S3.010	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SWMH2 1	SW.29	66.875	65.560	0.225	5.707	0.3	0.22	8.0	Surcharged

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S9.000	Design Criteria FSR: 2 years: +0 %: 60 mins: Winter	Pipe	PP5.1	SWMH2 0	66.858	65.973	0.150	1.571	0.1	0	0.5	OK
S10.000	Design Criteria FSR: 2 years: +0 %: 60 mins: Winter	Pipe	PP5.2	SWMH2 1	66.873	66.039	0.150	5.663	2.3	0.02	2.4	OK
S3.012	Design Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	SW.30	Cellular Storage	66.931	65.876	0.300	28.174	0.8	0.53	33.7	Surchar
S3.004	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SWMH1 5	SWMH1 6	66.680	65.560	0.186	2.231	0.4	0.09	3.2	OK
S3.005	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SWMH1 6	SW.28	66.640	65.560	0.216	3.380	0.6	0.13	5.1	OK
S6.000	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	PP3.2	SWMH1 6	66.641	65.982	0.066	1.396	2.2	0.02	1.8	OK
S15.000	Design Criteria FSR: 2 years: +0 %: 60 mins: Winter	Pipe	PP7	SWMH3 3	66.778	65.969	0.135	1.996	1.0	0.01	0.7	OK
S16.000	Design Criteria FSR: 2 years: +0 %: 60 mins: Winter	Pipe	PP6.2	SWMH3 4	66.841	65.952	0.150	3.419	2.4	0.04	3.7	OK
S5.000	Design Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	PP3.1	SWMH1 5	66.680	65.994	0.150	1.401	2.0	0.01	1.3	OK
S11.002	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SW.24	SW.29	66.943	65.560	0.300	15.527	0.8	0.49	31.3	Surchar
S11.000	Design Criteria FSR: 2 years: +0 %: 30 mins: Winter	Pipe	PP9	SW.26	66.631	66.078	0.113	2.678	1.4	0.04	2.2	OK
S1.000	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SW.33	SW.34	66.553	65.679	0.064	3.157	0.4	0.11	3.9	OK
S1.001	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SW.34	SW.35	66.725	65.612	0.087	5.740	0.6	0.26	8.9	OK
S1.002	Design Criteria FSR: 2 years: +0 %: 15 mins: Winter	Pipe	SW.35	SW.36	66.682	65.449	0.100	7.813	0.7	0.36	12.3	OK