

BPS

drainage calculations

project: 1-3 Barclay Court, Market Place

client: PR Homes Direct

date: mar 25

project no:	doc no:	version:
24079	CA-D-2000-S4	P03

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	2	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	✓
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Width (mm)	Depth (m)
9401		5.00	53.160	1200		3.430
0501			51.150	1200		3.250
xIC05	0.003	5.00	52.600	650	450	0.600
xIC06	0.002	5.00	52.670	650	450	2.400
xIC07	0.004	5.00	52.460	650	450	2.900
xIC07_OUT			52.360			3.328
G3	0.000	5.00	50.250	300	300	0.500
xIC01	0.030	5.00	53.400	650	450	1.360
xIC02	0.002	5.00	53.950	650	450	2.000
xIC03	0.003	5.00	52.610	650	450	1.620
xIC03_OUT			52.400			2.965
J01	0.002	5.00	53.391			1.866
xIC08			50.300	300		0.670
xIC09 PUMP 1			50.300	600	600	1.090
PUMP 1 OUT			50.300			1.100
G1	0.001	5.00	50.180	300	300	0.500
xIC10			50.300	650	450	0.670
xIC11 PUMP 2			50.300	600	600	1.090
PUMP 2 OUT			50.300			1.100
G2	0.001	5.00	50.200	300	300	0.500

Links (Results)

Name	US Node	DS Node	Vel (m/s)	Cap (l/s)	Flow (l/s)	Pro Velocity (m/s)
2.000	9401	xIC03_OUT	1.965	138.9	0.0	0.000
3.000	xIC05	xIC06	0.787	6.2	0.5	0.478
3.001	xIC06	xIC07	2.608	46.1	0.9	1.013
3.002	xIC07	xIC07_OUT	0.858	15.2	1.6	0.554
4.000	G3	xIC08	0.800	6.3	0.1	0.270
1.000	xIC01	xIC02	0.850	15.0	5.4	0.779
1.001	xIC02	J01	2.218	39.2	5.7	1.596
1.003	xIC03	xIC03_OUT	0.892	15.8	6.7	0.856
1.002	J01	xIC03	2.217	39.2	6.2	1.623
1.004	xIC03_OUT	xIC07_OUT	1.965	138.9	6.7	1.023
1.005	xIC07_OUT	0501	1.966	139.0	8.2	1.088
4.001	xIC08	xIC09 PUMP 1	0.918	7.2	0.1	0.311
4.002	xIC09 PUMP 1	PUMP 1 OUT	0.769	6.0	0.1	0.259
5.000	G1	xIC10	0.842	6.6	0.1	0.321
5.001	xIC10	xIC11 PUMP 2	1.092	8.6	0.3	0.505

Links (Results)

Name	US Node	DS Node	Vel (m/s)	Cap (l/s)	Flow (l/s)	Pro Velocity (m/s)
5.002	xIC11 PUMP 2	PUMP 2 OUT	0.769	6.0	0.3	0.407
6.000	G2	xIC10	1.339	10.5	0.2	0.515

Results for 2 year Critical Storm Duration. Lowest mass balance: 96.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	9401	1	49.730	0.000	0.0	0.0000	0.0000	OK
15 minute winter	0501	12	47.947	0.047	7.5	0.0000	0.0000	OK
15 minute winter	xIC05	11	52.020	0.020	0.5	0.0058	0.0000	OK
15 minute winter	xIC06	11	50.284	0.014	0.8	0.0041	0.0000	OK
15 minute winter	xIC07	11	49.591	0.031	1.5	0.0092	0.0000	OK
15 minute winter	xIC07_OUT	12	49.079	0.047	7.6	0.0000	0.0000	OK
15 minute winter	G3	11	49.759	0.009	0.1	0.0008	0.0000	OK
15 minute winter	xIC01	10	52.104	0.064	5.1	0.0187	0.0000	OK
15 minute winter	xIC02	10	51.988	0.038	5.3	0.0111	0.0000	OK
15 minute winter	xIC03	11	51.057	0.067	6.2	0.0198	0.0000	OK
15 minute winter	xIC03_OUT	11	49.478	0.043	6.2	0.0000	0.0000	OK
15 minute winter	J01	10	51.564	0.039	5.7	0.0000	0.0000	OK
30 minute winter	xIC08	20	49.638	0.008	0.1	0.0006	0.0000	OK
30 minute winter	xIC09 PUMP 1	119	49.245	0.035	0.1	0.0124	0.0000	OK
15 minute winter	PUMP 1 OUT	1	49.200	0.000	0.0	0.0000	0.0000	OK
30 minute winter	G1	21	49.689	0.009	0.1	0.0008	0.0000	OK
15 minute winter	xIC10	11	49.644	0.014	0.3	0.0040	0.0000	OK
60 minute winter	xIC11 PUMP 2	108	49.376	0.166	0.2	0.0599	0.0000	SURCHARGED
15 minute winter	PUMP 2 OUT	1	49.200	0.000	0.0	0.0000	0.0000	OK
15 minute winter	G2	11	49.710	0.010	0.2	0.0009	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	9401	2.000	xIC03_OUT	0.0	0.000	0.000	0.0584	
15 minute winter	xIC05	3.000	xIC06	0.5	0.463	0.081	0.0041	
15 minute winter	xIC06	3.001	xIC07	0.8	0.484	0.017	0.0187	
15 minute winter	xIC07	3.002	xIC07_OUT	1.4	0.540	0.095	0.0254	
15 minute winter	xIC07_OUT	1.005	0501	7.5	1.062	0.054	0.5099	3.6
15 minute winter	G3	4.000	xIC08	0.1	0.385	0.016	0.0035	
15 minute winter	xIC01	1.000	xIC02	5.0	0.959	0.335	0.0663	
15 minute winter	xIC02	1.001	J01	5.3	1.499	0.135	0.0312	
15 minute winter	xIC03	1.003	xIC03_OUT	6.2	0.828	0.394	0.0570	
15 minute winter	xIC03_OUT	1.004	xIC07_OUT	6.2	0.947	0.045	0.1706	
15 minute winter	J01	1.002	xIC03	5.7	1.028	0.144	0.0626	
30 minute winter	xIC08	4.001	xIC09 PUMP 1	0.1	0.313	0.013	0.0004	
30 minute winter	xIC09 PUMP 1	4.002	PUMP 1 OUT	0.0	0.000	0.000	0.0000	0.0
30 minute winter	xIC09 PUMP 1	Pump	xIC07	0.0				0.0
30 minute winter	G1	5.000	xIC10	0.1	0.248	0.015	0.0017	
15 minute winter	xIC10	5.001	xIC11 PUMP 2	0.3	0.481	0.034	0.0006	
60 minute winter	xIC11 PUMP 2	5.002	PUMP 2 OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	xIC11 PUMP 2	Pump	xIC01	0.0				0.0
15 minute winter	G2	6.000	xIC10	0.2	0.548	0.019	0.0012	

Results for 2 year +45% CC Critical Storm Duration. Lowest mass balance: 96.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	9401	1	49.730	0.000	0.0	0.0000	0.0000	OK
15 minute winter	0501	11	47.956	0.056	10.8	0.0000	0.0000	OK
15 minute winter	xIC05	11	52.024	0.024	0.7	0.0070	0.0000	OK
15 minute winter	xIC06	11	50.287	0.017	1.2	0.0049	0.0000	OK
15 minute winter	xIC07	11	49.598	0.038	2.1	0.0112	0.0000	OK
15 minute winter	xIC07_OUT	11	49.089	0.057	11.1	0.0000	0.0000	OK

15 minute winter	G3	10	49.759	0.009	0.1	0.0008	0.0000	OK
15 minute winter	xIC01	10	52.118	0.078	7.4	0.0230	0.0000	OK
15 minute winter	xIC02	10	51.996	0.046	7.8	0.0136	0.0000	OK
15 minute winter	xIC03	11	51.074	0.084	9.0	0.0246	0.0000	OK
15 minute winter	xIC03_OUT	11	49.486	0.051	9.0	0.0000	0.0000	OK
15 minute winter	J01	10	51.572	0.047	8.4	0.0000	0.0000	OK
30 minute winter	xIC08	20	49.639	0.009	0.1	0.0006	0.0000	OK
30 minute winter	xIC09 PUMP 1	121	49.269	0.059	0.1	0.0211	0.0000	OK
15 minute winter	PUMP 1 OUT	1	49.200	0.000	0.0	0.0000	0.0000	OK
15 minute winter	G1	11	49.692	0.012	0.2	0.0011	0.0000	OK
15 minute winter	xIC10	11	49.647	0.017	0.5	0.0050	0.0000	OK
120 minute winter	xIC11 PUMP 2	150	49.544	0.334	0.2	0.1204	0.0000	SURCHARGED
15 minute winter	PUMP 2 OUT	1	49.200	0.000	0.0	0.0000	0.0000	OK
15 minute winter	G2	10	49.711	0.011	0.3	0.0010	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	9401	2.000	xIC03_OUT	0.0	0.000	0.000	0.0760	
15 minute winter	xIC05	3.000	xIC06	0.7	0.508	0.113	0.0053	
15 minute winter	xIC06	3.001	xIC07	1.2	0.551	0.026	0.0246	
15 minute winter	xIC07	3.002	xIC07_OUT	2.1	0.601	0.138	0.0333	
15 minute winter	xIC07_OUT	1.005	0501	10.8	1.184	0.078	0.6663	5.2
15 minute winter	G3	4.000	xIC08	0.1	0.385	0.016	0.0037	
15 minute winter	xIC01	1.000	xIC02	7.3	1.058	0.487	0.0871	
15 minute winter	xIC02	1.001	J01	7.8	1.665	0.198	0.0411	
15 minute winter	xIC03	1.003	xIC03_OUT	9.0	0.906	0.569	0.0751	
15 minute winter	xIC03_OUT	1.004	xIC07_OUT	9.0	1.049	0.065	0.2232	
15 minute winter	J01	1.002	xIC03	8.3	1.129	0.212	0.0822	
30 minute winter	xIC08	4.001	xIC09 PUMP 1	0.1	0.318	0.014	0.0004	
30 minute winter	xIC09 PUMP 1	4.002	PUMP 1 OUT	0.0	0.000	0.000	0.0000	0.0
30 minute winter	xIC09 PUMP 1	Pump	xIC07	0.0				0.0
15 minute winter	G1	5.000	xIC10	0.2	0.289	0.030	0.0030	
15 minute winter	xIC10	5.001	xIC11 PUMP 2	0.4	0.539	0.052	0.0008	
120 minute winter	xIC11 PUMP 2	5.002	PUMP 2 OUT	0.0	0.000	0.000	0.0000	0.0
120 minute winter	xIC11 PUMP 2	Pump	xIC01	0.0				0.0
15 minute winter	G2	6.000	xIC10	0.3	0.548	0.025	0.0015	

Results for 30 year Critical Storm Duration. Lowest mass balance: 96.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	9401	1	49.730	0.000	0.0	0.0000	0.0000	OK
15 minute winter	0501	11	47.975	0.075	19.5	0.0000	0.0000	OK
15 minute winter	xIC05	11	52.033	0.033	1.3	0.0097	0.0000	OK
15 minute winter	xIC06	10	50.292	0.022	2.2	0.0065	0.0000	OK
15 minute winter	xIC07	10	49.612	0.052	3.9	0.0153	0.0000	OK
15 minute winter	xIC07_OUT	11	49.108	0.076	19.7	0.0000	0.0000	OK
15 minute winter	G3	10	49.763	0.013	0.2	0.0011	0.0000	OK
15 minute winter	xIC01	10	52.153	0.113	13.2	0.0330	0.0000	OK
15 minute winter	xIC02	10	52.014	0.064	13.8	0.0186	0.0000	OK
15 minute winter	xIC03	11	51.119	0.129	15.9	0.0378	0.0000	OK
15 minute winter	xIC03_OUT	11	49.503	0.068	15.9	0.0000	0.0000	OK
15 minute winter	J01	10	51.589	0.064	14.8	0.0000	0.0000	OK
15 minute winter	xIC08	12	49.642	0.012	0.2	0.0009	0.0000	OK
120 minute winter	xIC09 PUMP 1	174	49.353	0.143	0.1	0.0513	0.0000	SURCHARGED
15 minute winter	PUMP 1 OUT	1	49.200	0.000	0.0	0.0000	0.0000	OK
15 minute winter	G1	11	49.695	0.015	0.3	0.0013	0.0000	OK
15 minute winter	xIC10	11	49.652	0.022	0.8	0.0066	0.0000	OK
240 minute winter	xIC11 PUMP 2	172	49.611	0.401	0.2	0.1444	0.0000	SURCHARGED
15 minute winter	PUMP 2 OUT	1	49.200	0.000	0.0	0.0000	0.0000	OK
15 minute winter	G2	10	49.715	0.015	0.5	0.0013	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	9401	2.000	xIC03_OUT	0.0	0.000	0.000	0.1135	
15 minute winter	xIC05	3.000	xIC06	1.3	0.600	0.210	0.0083	
15 minute winter	xIC06	3.001	xIC07	2.2	0.641	0.047	0.0378	
15 minute winter	xIC07	3.002	xIC07_OUT	3.8	0.709	0.249	0.0511	
15 minute winter	xIC07_OUT	1.005	0501	19.5	1.402	0.140	1.0109	9.3
15 minute winter	G3	4.000	xIC08	0.2	0.400	0.032	0.0061	
15 minute winter	xIC01	1.000	xIC02	13.0	1.214	0.868	0.1331	
15 minute winter	xIC02	1.001	J01	13.8	1.937	0.351	0.0627	
15 minute winter	xIC03	1.003	xIC03_OUT	15.9	1.028	1.007	0.1169	
15 minute winter	xIC03_OUT	1.004	xIC07_OUT	15.9	1.228	0.115	0.3365	
15 minute winter	J01	1.002	xIC03	14.7	1.246	0.374	0.1288	
15 minute winter	xIC08	4.001	xIC09 PUMP 1	0.2	0.388	0.028	0.0007	
120 minute winter	xIC09 PUMP 1	4.002	PUMP 1 OUT	0.0	0.000	0.000	0.0000	0.0
120 minute winter	xIC09 PUMP 1	Pump	xIC07	0.0				0.0
15 minute winter	G1	5.000	xIC10	0.3	0.302	0.045	0.0042	
15 minute winter	xIC10	5.001	xIC11 PUMP 2	0.7	0.618	0.087	0.0012	
240 minute winter	xIC11 PUMP 2	5.002	PUMP 2 OUT	0.0	0.000	0.000	0.0000	0.0
240 minute winter	xIC11 PUMP 2	Pump	xIC01	5.0				1.2
15 minute winter	G2	6.000	xIC10	0.5	0.548	0.045	0.0023	

Results for 30 year +45% CC Critical Storm Duration. Lowest mass balance: 96.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	9401	1	49.730	0.000	0.0	0.0000	0.0000	OK
15 minute winter	0501	11	47.990	0.090	27.9	0.0000	0.0000	OK
15 minute winter	xIC05	10	52.041	0.041	1.9	0.0119	0.0000	OK
15 minute winter	xIC06	10	50.297	0.027	3.2	0.0078	0.0000	OK
15 minute winter	xIC07	10	49.624	0.064	5.5	0.0187	0.0000	OK
15 minute winter	xIC07_OUT	11	49.123	0.091	28.3	0.0000	0.0000	OK

15 minute winter	G3	11	49.765	0.015	0.3	0.0014	0.0000	OK
15 minute winter	xIC01	10	52.236	0.196	19.1	0.0574	0.0000	SURCHARGED
15 minute winter	xIC02	11	52.028	0.078	19.6	0.0230	0.0000	OK
15 minute winter	xIC03	11	51.216	0.226	22.9	0.0664	0.0000	SURCHARGED
15 minute winter	xIC03_OUT	11	49.517	0.082	22.9	0.0000	0.0000	OK
15 minute winter	J01	11	51.604	0.079	21.1	0.0000	0.0000	OK
15 minute winter	xIC08	11	49.645	0.015	0.3	0.0010	0.0000	OK
120 minute winter	xIC09 PUMP 1	182	49.449	0.239	0.1	0.0859	0.0000	SURCHARGED

15 minute winter	PUMP 1 OUT	1	49.200	0.000	0.0	0.0000	0.0000	OK
15 minute winter	G1	10	49.698	0.018	0.5	0.0016	0.0000	OK
15 minute winter	xIC10	11	49.658	0.028	1.1	0.0081	0.0000	OK
120 minute winter	xIC11 PUMP 2	68	49.611	0.401	0.3	0.1444	0.0000	SURCHARGED

15 minute winter	PUMP 2 OUT	1	49.200	0.000	0.0	0.0000	0.0000	OK
15 minute winter	G2	10	49.717	0.017	0.7	0.0016	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	9401	2.000	xIC03_OUT	0.0	0.000	0.000	0.1468	
15 minute winter	xIC05	3.000	xIC06	1.9	0.659	0.303	0.0109	
15 minute winter	xIC06	3.001	xIC07	3.1	0.705	0.068	0.0494	
15 minute winter	xIC07	3.002	xIC07_OUT	5.4	0.781	0.359	0.0667	
15 minute winter	xIC07_OUT	1.005	0501	27.9	1.554	0.201	1.3055	13.6
15 minute winter	G3	4.000	xIC08	0.3	0.423	0.048	0.0080	
15 minute winter	xIC01	1.000	xIC02	18.4	1.221	1.226	0.1683	
15 minute winter	xIC02	1.001	J01	19.7	2.112	0.503	0.0824	
15 minute winter	xIC03	1.003	xIC03_OUT	22.9	1.303	1.454	0.1302	
15 minute winter	xIC03_OUT	1.004	xIC07_OUT	22.9	1.361	0.165	0.4352	
15 minute winter	J01	1.002	xIC03	21.2	1.382	0.540	0.1500	
15 minute winter	xIC08	4.001	xIC09 PUMP 1	0.3	0.431	0.041	0.0010	
120 minute winter	xIC09 PUMP 1	4.002	PUMP 1 OUT	0.0	0.000	0.000	0.0000	0.0
120 minute winter	xIC09 PUMP 1	Pump	xIC07	0.0				0.0
15 minute winter	G1	5.000	xIC10	0.5	0.347	0.070	0.0057	
15 minute winter	xIC10	5.001	xIC11 PUMP 2	1.1	0.681	0.128	0.0016	
120 minute winter	xIC11 PUMP 2	5.002	PUMP 2 OUT	0.0	0.000	0.000	0.0000	0.0
120 minute winter	xIC11 PUMP 2	Pump	xIC01	5.0				0.6
15 minute winter	G2	6.000	xIC10	0.7	0.517	0.064	0.0031	

Results for 100 year Critical Storm Duration. Lowest mass balance: 96.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	9401	1	49.730	0.000	0.0	0.0000	0.0000	OK
15 minute winter	0501	11	47.985	0.085	24.7	0.0000	0.0000	OK
15 minute winter	xIC05	10	52.038	0.038	1.7	0.0111	0.0000	OK
15 minute winter	xIC06	10	50.295	0.025	2.8	0.0073	0.0000	OK
15 minute winter	xIC07	10	49.619	0.059	4.8	0.0173	0.0000	OK
15 minute winter	xIC07_OUT	11	49.118	0.086	24.9	0.0000	0.0000	OK
15 minute winter	G3	10	49.765	0.015	0.3	0.0014	0.0000	OK
15 minute winter	xIC01	10	52.177	0.137	16.6	0.0401	0.0000	OK
15 minute winter	xIC02	10	52.023	0.073	17.4	0.0213	0.0000	OK
15 minute winter	xIC03	11	51.174	0.184	20.1	0.0538	0.0000	SURCHARGED
15 minute winter	xIC03_OUT	11	49.512	0.077	20.1	0.0000	0.0000	OK
15 minute winter	J01	10	51.598	0.073	18.6	0.0000	0.0000	OK
15 minute winter	xIC08	11	49.645	0.015	0.3	0.0010	0.0000	OK
120 minute winter	xIC09 PUMP 1	178	49.401	0.191	0.1	0.0686	0.0000	SURCHARGED
15 minute winter	PUMP 1 OUT	1	49.200	0.000	0.0	0.0000	0.0000	OK
15 minute winter	G1	11	49.697	0.017	0.4	0.0015	0.0000	OK
15 minute winter	xIC10	11	49.656	0.026	1.0	0.0075	0.0000	OK
60 minute winter	xIC11 PUMP 2	110	49.611	0.401	0.5	0.1444	0.0000	SURCHARGED
15 minute winter	PUMP 2 OUT	1	49.200	0.000	0.0	0.0000	0.0000	OK
15 minute winter	G2	10	49.716	0.016	0.6	0.0014	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	9401	2.000	xIC03_OUT	0.0	0.000	0.000	0.1342	
15 minute winter	xIC05	3.000	xIC06	1.7	0.640	0.270	0.0100	
15 minute winter	xIC06	3.001	xIC07	2.7	0.682	0.060	0.0446	
15 minute winter	xIC07	3.002	xIC07_OUT	4.7	0.753	0.313	0.0601	
15 minute winter	xIC07_OUT	1.005	0501	24.7	1.499	0.178	1.1951	11.7
15 minute winter	G3	4.000	xIC08	0.3	0.433	0.048	0.0081	
15 minute winter	xIC01	1.000	xIC02	16.3	1.253	1.087	0.1582	
15 minute winter	xIC02	1.001	J01	17.3	2.049	0.442	0.0747	
15 minute winter	xIC03	1.003	xIC03_OUT	20.1	1.146	1.274	0.1280	
15 minute winter	xIC03_OUT	1.004	xIC07_OUT	20.2	1.312	0.145	0.3980	
15 minute winter	J01	1.002	xIC03	18.5	1.271	0.473	0.1450	
15 minute winter	xIC08	4.001	xIC09 PUMP 1	0.3	0.431	0.041	0.0010	
120 minute winter	xIC09 PUMP 1	4.002	PUMP 1 OUT	0.0	0.000	0.000	0.0000	0.0
120 minute winter	xIC09 PUMP 1	Pump	xIC07	0.0				0.0
15 minute winter	G1	5.000	xIC10	0.4	0.332	0.060	0.0051	
15 minute winter	xIC10	5.001	xIC11 PUMP 2	0.9	0.656	0.111	0.0014	
60 minute winter	xIC11 PUMP 2	5.002	PUMP 2 OUT	0.0	0.000	0.000	0.0000	0.0
60 minute winter	xIC11 PUMP 2	Pump	xIC01	5.0				0.9
15 minute winter	G2	6.000	xIC10	0.6	0.548	0.055	0.0028	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 96.98%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	9401	1	49.730	0.000	0.0	0.0000	0.0000	OK
15 minute winter	0501	11	48.001	0.101	34.8	0.0000	0.0000	OK
15 minute winter	xIC05	10	52.047	0.047	2.4	0.0136	0.0000	OK
15 minute winter	xIC06	10	50.300	0.030	4.0	0.0087	0.0000	OK
15 minute winter	xIC07	10	49.633	0.073	7.1	0.0215	0.0000	OK
15 minute winter	xIC07_OUT	11	49.135	0.103	35.3	0.0000	0.0000	OK

15 minute winter	G3	10	49.767	0.017	0.4	0.0016	0.0000	OK
15 minute winter	xIC01	10	52.348	0.308	24.0	0.0904	0.0000	SURCHARGED
15 minute winter	xIC02	11	52.040	0.090	24.6	0.0263	0.0000	OK
15 minute winter	xIC03	11	51.310	0.320	28.6	0.0936	0.0000	SURCHARGED
15 minute winter	xIC03_OUT	11	49.526	0.091	28.6	0.0000	0.0000	OK
15 minute winter	J01	11	51.629	0.104	26.4	0.0000	0.0000	OK
15 minute winter	xIC08	11	49.647	0.017	0.4	0.0012	0.0000	OK
180 minute winter	xIC09 PUMP 1	224	49.545	0.335	0.1	0.1204	0.0000	SURCHARGED

15 minute winter	PUMP 1 OUT	1	49.200	0.000	0.0	0.0000	0.0000	OK
15 minute winter	G1	10	49.700	0.020	0.6	0.0018	0.0000	OK
15 minute winter	xIC10	11	49.661	0.031	1.4	0.0091	0.0000	OK
30 minute winter	xIC11 PUMP 2	20	49.611	0.401	1.2	0.1444	0.0000	SURCHARGED

15 minute winter	PUMP 2 OUT	1	49.200	0.000	0.0	0.0000	0.0000	OK
15 minute winter	G2	10	49.719	0.019	0.8	0.0017	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	9401	2.000	xIC03_OUT	0.0	0.000	0.000	0.1718	
15 minute winter	xIC05	3.000	xIC06	2.4	0.700	0.384	0.0130	
15 minute winter	xIC06	3.001	xIC07	4.0	0.739	0.086	0.0589	
15 minute winter	xIC07	3.002	xIC07_OUT	6.9	0.829	0.455	0.0797	
15 minute winter	xIC07_OUT	1.005	0501	34.8	1.654	0.251	1.5348	17.2
15 minute winter	G3	4.000	xIC08	0.4	0.455	0.064	0.0100	
15 minute winter	xIC01	1.000	xIC02	23.1	1.452	1.540	0.1787	
15 minute winter	xIC02	1.001	J01	24.7	2.156	0.631	0.1060	
15 minute winter	xIC03	1.003	xIC03_OUT	28.6	1.624	1.814	0.1322	
15 minute winter	xIC03_OUT	1.004	xIC07_OUT	28.5	1.444	0.205	0.5108	
15 minute winter	J01	1.002	xIC03	26.5	1.592	0.677	0.1705	
15 minute winter	xIC08	4.001	xIC09 PUMP 1	0.4	0.469	0.055	0.0012	
180 minute winter	xIC09 PUMP 1	4.002	PUMP 1 OUT	0.0	0.000	0.000	0.0000	0.0
180 minute winter	xIC09 PUMP 1	Pump	xIC07	0.0				0.0
15 minute winter	G1	5.000	xIC10	0.6	0.362	0.086	0.0066	
15 minute winter	xIC10	5.001	xIC11 PUMP 2	1.4	0.717	0.157	0.0019	
30 minute winter	xIC11 PUMP 2	5.002	PUMP 2 OUT	0.0	0.000	0.000	0.0000	0.0
30 minute winter	xIC11 PUMP 2	Pump	xIC01	5.0				0.3
15 minute winter	G2	6.000	xIC10	0.8	0.548	0.076	0.0036	

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	2	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	0.750	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	✓
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Width (mm)	Depth (m)
9350		5.00	57.540	1200		1.500
SW1			52.480	1200		1.500
9550			51.080	1200		1.790
xIC04	0.009	5.00	52.470	650	450	0.300

Links (Results)

Name	US Node	DS Node	Vel (m/s)	Cap (l/s)	Flow (l/s)	Pro Velocity (m/s)
1.000	9350	SW1	3.556	251.4	0.0	0.000
1.001	SW1	9550	2.251	159.1	1.3	0.684
2.000	xIC04	SW1	1.418	25.1	1.3	0.746

Results for 2 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	9350	1	56.040	0.000	0.0	0.0000	0.0000	OK
15 minute winter	SW1	12	51.000	0.020	1.6	0.0228	0.0000	OK
15 minute winter	9550	12	49.310	0.020	1.4	0.0000	0.0000	OK
15 minute winter	xIC04	10	52.197	0.027	1.6	0.0078	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	9350	1.000	SW1	0.0	0.000	0.000	0.0999	
15 minute winter	SW1	1.001	9550	1.4	0.701	0.009	0.1657	0.7
15 minute winter	xIC04	2.000	SW1	1.6	0.771	0.063	0.0114	

Results for 2 year +45% CC Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	9350	1	56.040	0.000	0.0	0.0000	0.0000	OK
15 minute winter	SW1	11	51.004	0.024	2.3	0.0272	0.0000	OK
15 minute winter	9550	12	49.314	0.024	2.1	0.0000	0.0000	OK
15 minute winter	xIC04	10	52.202	0.032	2.3	0.0094	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	9350	1.000	SW1	0.0	0.000	0.000	0.1307	
15 minute winter	SW1	1.001	9550	2.1	0.790	0.013	0.2164	1.1
15 minute winter	xIC04	2.000	SW1	2.3	0.855	0.091	0.0148	

Results for 30 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	9350	1	56.040	0.000	0.0	0.0000	0.0000	OK
15 minute winter	SW1	11	51.012	0.032	4.1	0.0363	0.0000	OK
15 minute winter	9550	11	49.322	0.032	3.8	0.0000	0.0000	OK
15 minute winter	xIC04	10	52.214	0.044	4.1	0.0128	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	9350	1.000	SW1	0.0	0.000	0.000	0.2003	
15 minute winter	SW1	1.001	9550	3.8	0.950	0.024	0.3315	1.9
15 minute winter	xIC04	2.000	SW1	4.1	0.999	0.162	0.0227	

Results for 30 year +45% CC Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	9350	1	56.040	0.000	0.0	0.0000	0.0000	OK
15 minute winter	SW1	11	51.019	0.039	6.0	0.0438	0.0000	OK
15 minute winter	9550	11	49.329	0.039	5.7	0.0000	0.0000	OK
15 minute winter	xIC04	10	52.224	0.054	6.0	0.0159	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	9350	1.000	SW1	0.0	0.000	0.000	0.2645	
15 minute winter	SW1	1.001	9550	5.7	1.071	0.036	0.4375	2.8
15 minute winter	xIC04	2.000	SW1	6.0	1.101	0.238	0.0301	

Results for 100 year Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	9350	1	56.040	0.000	0.0	0.0000	0.0000	OK
15 minute winter	SW1	11	51.016	0.036	5.2	0.0408	0.0000	OK
15 minute winter	9550	11	49.326	0.036	4.9	0.0000	0.0000	OK
15 minute winter	xIC04	10	52.220	0.050	5.2	0.0146	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	9350	1.000	SW1	0.0	0.000	0.000	0.2381	
15 minute winter	SW1	1.001	9550	4.9	1.023	0.031	0.3940	2.4
15 minute winter	xIC04	2.000	SW1	5.2	1.061	0.206	0.0270	

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 100.00%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	9350	1	56.040	0.000	0.0	0.0000	0.0000	OK
15 minute winter	SW1	11	51.023	0.043	7.4	0.0489	0.0000	OK
15 minute winter	9550	11	49.333	0.043	7.1	0.0000	0.0000	OK
15 minute winter	xIC04	10	52.232	0.062	7.5	0.0180	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	9350	1.000	SW1	0.0	0.000	0.000	0.3109	
15 minute winter	SW1	1.001	9550	7.1	1.148	0.045	0.5141	3.5
15 minute winter	xIC04	2.000	SW1	7.4	1.164	0.297	0.0356	

Design Settings

Frequency of use (kDU)	0.50	Minimum Velocity (m/s)	1.00
Flow per dwelling per day (l/day)	4000	Connection Type	Level Soffits
Domestic Flow (l/s/ha)	0.0	Minimum Backdrop Height (m)	0.200
Industrial Flow (l/s/ha)	0.0	Preferred Cover Depth (m)	1.200
Additional Flow (%)	0	Include Intermediate Ground	✓

Nodes

Name	Dwellings	Cover Level (m)	Node Type	Depth (m)
xIC02		53.950	Manhole	2.000
J01		53.391	Junction	1.866
SVP3b	1	52.765	Junction	0.705
SVP3a	2	52.760	Junction	0.700
SVP3c	1	52.765	Junction	0.705
F04		52.930	Manhole	1.100
xIC03		52.610	Manhole	1.620
9401		53.160	Manhole	3.430
xIC03_OUT		52.400	Junction	2.965
SVP2a	2	52.765	Junction	0.705
F01		52.490	Manhole	0.620
SVP1a	2	52.765	Junction	0.705
F02		52.480	Manhole	0.660
SVP1b	2	52.765	Junction	0.705
F03		52.400	Manhole	0.660
xIC05		52.600	Manhole	0.600
xIC06		52.670	Manhole	2.400
xIC07		52.460	Manhole	2.900
F03_J		52.416	Junction	2.868
xIC07_OUT		52.360	Junction	3.328
0501		51.150	Manhole	3.250
G3		50.250	Manhole	0.500
xIC08		50.300	Manhole	0.670
xIC09 PUMP 1		50.300	Manhole	1.090
PUMP 1 OUT		50.300	Junction	1.100

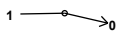
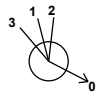
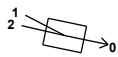
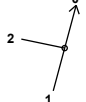
Links (Results)

Name	US Node	DS Node	Pro Vel @ 1/3 Q (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	Σ Dwellings (ha)	Pro Velocity (m/s)
1.000	xIC02	J01	0.000	1.926	34.0	0.0	0	0.000
1.001	J01	xIC03	0.000	1.926	34.0	0.0	0	0.000
2.000	SVP3b	F04	0.181	1.073	8.4	0.0	1	0.271
3.000	SVP3a	F04	0.220	1.109	8.7	0.1	2	0.335
4.000	SVP3c	F04	0.193	1.147	9.0	0.0	1	0.290
2.001	F04	xIC03	0.299	1.074	8.4	0.2	4	0.419
1.002	xIC03	xIC03_OUT	0.216	1.006	17.8	0.2	4	0.307
5.000	9401	xIC03_OUT	0.000	1.732	122.4	0.0	0	0.000
1.003	xIC03_OUT	xIC07_OUT	0.204	1.732	122.4	0.2	4	0.297
6.000	SVP2a	F01	0.244	1.077	8.5	0.1	2	0.325
6.001	F01	F02	0.195	0.863	6.8	0.1	2	0.280
7.000	SVP1a	F02	0.239	1.058	8.3	0.1	2	0.320
6.002	F02	F03	0.244	0.881	6.9	0.2	4	0.361

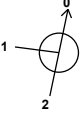
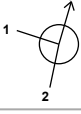
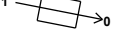
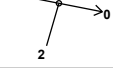
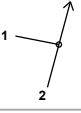
Links (Results)

Name	US Node	DS Node	Pro Vel @ 1/3 Q (m/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)	Σ Dwellings (ha)	Pro Velocity (m/s)
8.000	SVP1b	F03	0.240	1.061	8.3	0.1	2	0.321
6.003	F03	F03_J	0.277	0.853	6.7	0.3	6	0.413
9.000	xIC05	xIC06	0.000	0.680	5.3	0.0	0	0.000
9.001	xIC06	xIC07	0.000	2.264	40.0	0.0	0	0.000
9.002	xIC07	F03_J	0.000	0.749	13.2	0.0	0	0.000
6.004	F03_J	xIC07_OUT	0.239	0.989	17.5	0.3	6	0.358
1.004	xIC07_OUT	0501	0.283	1.733	122.5	0.5	10	0.403
10.000	G3	xIC08	0.000	0.691	5.4	0.0	0	0.000
10.001	xIC08	xIC09 PUMP 1	0.000	0.793	6.2	0.0	0	0.000
10.002	xIC09 PUMP 1	PUMP 1 OUT	0.000	0.665	5.2	0.0	0	0.000

Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)
xIC02	53.950	2.000	650	450		0	1.000	51.950
J01	53.391	1.866				1	1.000	51.525
SVP3b	52.765	0.705				0	2.000	52.060
SVP3a	52.760	0.700				0	3.000	52.060
SVP3c	52.765	0.705				0	4.000	52.060
F04	52.930	1.100	450			1	4.000	52.000
						2	3.000	51.830
						3	2.000	51.830
						0	2.001	51.830
xIC03	52.610	1.620	650	450		1	2.001	51.710
						2	1.001	50.990
						0	1.002	50.990
9401	53.160	3.430	1200			0	5.000	49.730
xIC03_OUT	52.400	2.965				1	5.000	49.435
						2	1.002	50.890
						0	1.003	49.435

Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)	
SVP2a	52.765	0.705				0	6.000	52.060	100
F01	52.490	0.620	300			1	6.000	51.870	100
						0	6.001	51.870	100
SVP1a	52.765	0.705							
						0	7.000	52.060	100
F02	52.480	0.660	300			1	7.000	51.900	100
						2	6.001	51.820	100
						0	6.002	51.820	100
SVP1b	52.765	0.705							
						0	8.000	52.060	100
F03	52.400	0.660	300			1	8.000	51.860	100
						2	6.002	51.740	100
						0	6.003	51.740	100
xIC05	52.600	0.600	650	450					
						0	9.000	52.000	100
xIC06	52.670	2.400	650	450		1	9.000	51.960	100
						0	9.001	50.270	150
xIC07	52.460	2.900	650	450		1	9.001	49.560	150
						0	9.002	49.560	150
F03_J	52.416	2.868				1	9.002	49.548	150
						2	6.003	51.700	100
						0	6.004	49.548	150
xIC07_OUT	52.360	3.328				1	6.004	49.448	150
						2	1.003	49.032	300
						0	1.004	49.032	300
0501	51.150	3.250	1200			1	1.004	47.900	300
G3	50.250	0.500	300	300					
						0	10.000	49.750	100

Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)	
xIC08	50.300	0.670	300			1	10.000	49.630	100
						0	10.001	49.630	100
xIC09 PUMP 1	50.300	1.090	600	600		1	10.001	49.610	100
						0	10.002	49.210	100
PUMP 1 OUT	50.300	1.100				1	10.002	49.200	100

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	2	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.200
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	✓
Maximum Rainfall (mm/hr)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Node Type	Depth (m)
9350		5.00	57.540	Manhole	1.500
RC5	0.006	5.00	53.400	Junction	0.700
RWP1	0.005	5.00	53.400	Junction	0.600
RC4	0.005	5.00	53.750	Junction	0.700
S04	0.003	5.00	53.780	Manhole	1.140
RC2	0.006	5.00	53.190	Junction	0.700
RC3	0.007	5.00	53.190	Junction	0.700
S05 SFC			53.360	Manhole	1.410
RWP2	0.005	5.00	52.600	Junction	0.760
RC1	0.004	5.00	52.990	Junction	0.700
S07			53.000	Manhole	1.260
S01 SFC	0.008	5.00	53.236	Manhole	1.846
S02 AT1			53.480	Junction	1.830
S03 VFC			53.790	Manhole	2.460
S08	0.003	5.00	52.380	Manhole	0.730
xIC04	0.012	5.00	52.470	Manhole	0.920
RC6		5.00	52.490	Junction	0.700
S06	0.003	5.00	52.500	Manhole	1.050
S06_OUT			52.380	Junction	1.120
SW1			52.480	Manhole	1.620
9550			51.080	Manhole	1.910
G1	0.001	5.00	50.180	Manhole	0.500
G2	0.001	5.00	50.200	Manhole	0.500
xIC10			50.300	Manhole	0.670
xIC11 PUMP 2			50.300	Manhole	1.090
PUMP 2 OUT			50.300	Junction	1.100

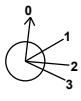
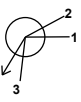
Links (Results)

Name	US Node	DS Node	Vel (m/s)	Cap (l/s)	Flow (l/s)	Pro Velocity (m/s)
1.000	9350	S06_OUT	3.703	261.8	0.0	0.000
2.000	RC5	S04	0.867	15.3	1.1	0.496
3.000	RWP1	S04	0.889	15.7	0.9	0.488
4.000	RC4	S04	1.185	20.9	0.8	0.571
2.001	S04	S05 SFC	1.021	18.0	3.3	0.782
5.000	RC2	S05 SFC	1.010	17.9	1.0	0.547
6.000	RC3	S05 SFC	1.005	17.8	1.3	0.583
2.002	S05 SFC	S02 AT1	1.005	17.8	5.6	0.891
7.000	RWP2	S07	0.790	6.2	0.9	0.556
8.000	RC1	S07	2.232	39.5	0.8	0.866

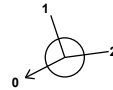
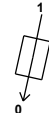
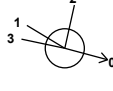
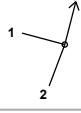
Links (Results)

Name	US Node	DS Node	Vel (m/s)	Cap (l/s)	Flow (l/s)	Pro Velocity (m/s)
7.001	S07	S01 SFC	0.874	15.4	1.7	0.570
7.002	S01 SFC	S02 AT1	0.871	15.4	3.2	0.686
2.003	S02 AT1	S03 VFC	0.880	15.5	8.8	0.905
2.004	S03 VFC	S06	0.890	15.7	8.8	0.913
9.000	S08	xIC04	0.845	14.9	0.6	0.398
9.001	xIC04	S06	1.020	18.0	2.7	0.739
10.000	RC6	S06	1.426	25.2	0.0	0.000
2.005	S06	S06_OUT	0.989	17.5	12.0	1.064
1.001	S06_OUT	SW1	2.765	195.5	12.0	1.555
1.002	SW1	9550	2.249	159.0	11.8	1.333
11.000	G1	xIC10	0.842	6.6	0.2	0.355
12.000	G2	xIC10	1.339	10.5	0.1	0.457
11.001	xIC10	xIC11 PUMP 2	1.092	8.6	0.3	0.505
11.002	xIC11 PUMP 2	PUMP 2 OUT	0.769	6.0	0.3	0.394

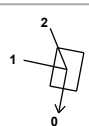
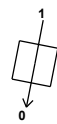
Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)
9350	57.540	1.500	1200					
					0	1.000	56.040	300
RC5	53.400	0.700						
					0	2.000	52.700	150
RWP1	53.400	0.600						
					0	3.000	52.800	150
RC4	53.750	0.700						
					0	4.000	53.050	150
S04	53.780	1.140	450					
					1	4.000	53.030	150
					2	3.000	52.740	150
					3	2.000	52.640	150
					0	2.001	52.640	150
RC2	53.190	0.700						
					0	5.000	52.490	150
RC3	53.190	0.700						
					0	6.000	52.490	150
S05 SFC	53.360	1.410	500					
					1	6.000	52.420	150
					2	5.000	52.400	150
					3	2.001	52.544	150
					0	2.002	52.250	150

Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)	
RWP2	52.600	0.760							
					0	7.000	51.840	100	
RC1	52.990	0.700							
					0	8.000	52.290	150	
S07	53.000	1.260	450			1 2	8.000 7.000	52.200 51.790	150 100
					0	7.001	51.740	150	
S01 SFC	53.236	1.846	500			1	7.001	51.690	150
					0	7.002	51.690	150	
S02 AT1	53.480	1.830				1 2	7.002 2.002	51.650 52.240	150 150
					0	2.003	51.650	150	
S03 VFC	53.790	2.460	1200			1	2.003	51.630	150
					0	2.004	51.630	150	
S08	52.380	0.730	300						
					0	9.000	51.650	150	
xIC04	52.470	0.920	650	450		1	9.000	51.550	150
					0	9.001	51.550	150	
RC6	52.490	0.700							
					0	10.000	51.790	150	
S06	52.500	1.050	500			1 2 3	10.000 9.001 2.004	51.770 51.450 51.450	150 150 150
					0	2.005	51.450	150	
S06_OUT	52.380	1.120				1 2	2.005 1.000	51.410 51.270	150 300
					0	1.001	51.260	300	
SW1	52.480	1.620	1200			1	1.001	50.860	300
					0	1.002	50.860	300	
9550	51.080	1.910	1200			1	1.002	49.170	300

Manhole Schedule

Node	CL (m)	Depth (m)	Dia (mm)	Width (mm)	Connections	Link	IL (m)	Dia (mm)	
G1	50.180	0.500	300	300		0	11.000	49.680	100
G2	50.200	0.500	300	300		0	12.000	49.700	100
xIC10	50.300	0.670	650	450		1	12.000	49.630	100
						2	11.000	49.630	100
						0	11.001	49.630	100
xIC11 PUMP 2	50.300	1.090	600	600		1	11.001	49.610	100
						0	11.002	49.210	100
PUMP 2 OUT	50.300	1.100				1	11.002	49.200	100

Simulation Settings

Rainfall Methodology	FEH-22	Skip Steady State	x	Check Discharge Rate(s)	x
Rainfall Events	Singular	Drain Down Time (mins)	240	Check Discharge Volume	x
Winter CV	1.000	Additional Storage (m³/ha)	0.0		
Analysis Speed	Detailed	Starting Level (m)			

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	45	0	0
30	45	0	0
100	45	0	0
1000	0	0	0

Node xIC11 PUMP 2 Offline Pump Control

Flap Valve	x	Invert Level (m)	49.210	Switch off depth (m)	0.400
Loop to Node	S05 SFC	Switch on depth (m)	0.401		

Depth (m)	Flow (l/s)
0.001	5.000

Node xIC11 PUMP 2 Online Weir Control

Flap Valve	x	Invert Level (m)	50.000	Discharge Coefficient	0.590
Replaces Downstream Link	x	Width (m)	1.000		

Node S03 VFC Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	51.630	Product Number	CTL-SHE-0118-6000-0800-6000
Design Depth (m)	0.800	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	6.0	Min Node Diameter (mm)	1200

Node S03 VFC Online Weir Control

Flap Valve	x	Invert Level (m)	52.450	Discharge Coefficient	0.590
Replaces Downstream Link	x	Width (m)	0.150		

Node S02 AT1 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	51.650
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	40

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	20.0	20.0	0.800	20.0	32.7	0.801	0.0	32.7

Results for 2 year +45% CC Critical Storm Duration. Lowest mass balance: 98.29%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	9350	1	56.040	0.000	0.0	0.0000	0.0000	OK
15 minute winter	RC5	10	52.731	0.031	1.5	0.0000	0.0000	OK
15 minute winter	RWP1	10	52.829	0.029	1.3	0.0000	0.0000	OK
15 minute winter	RC4	11	53.075	0.025	1.1	0.0000	0.0000	OK
15 minute winter	S04	10	52.693	0.053	4.5	0.0085	0.0000	OK
15 minute winter	RC2	10	52.518	0.028	1.4	0.0000	0.0000	OK
15 minute winter	RC3	10	52.523	0.033	1.8	0.0000	0.0000	OK
15 minute winter	S05 SFC	11	52.325	0.075	7.6	0.0147	0.0000	OK
15 minute winter	RWP2	10	51.870	0.030	1.2	0.0000	0.0000	OK
15 minute winter	RC1	10	52.308	0.018	1.1	0.0000	0.0000	OK
30 minute winter	S07	23	51.809	0.069	1.7	0.0109	0.0000	OK
30 minute winter	S01 SFC	23	51.809	0.119	3.3	0.0233	0.0000	OK
30 minute winter	S02 AT1	23	51.809	0.159	8.9	3.0134	0.0000	SURCHARGED
30 minute winter	S03 VFC	23	51.805	0.175	5.0	0.1984	0.0000	SURCHARGED
15 minute winter	S08	10	51.673	0.023	0.8	0.0016	0.0000	OK
15 minute winter	xIC04	10	51.597	0.047	3.8	0.0139	0.0000	OK
15 minute winter	RC6	1	51.790	0.000	0.0	0.0000	0.0000	OK
15 minute winter	S06	12	51.523	0.073	7.7	0.0143	0.0000	OK
15 minute winter	S06_OUT	13	51.300	0.040	7.6	0.0000	0.0000	OK
15 minute winter	SW1	13	50.904	0.044	7.6	0.0502	0.0000	OK
15 minute winter	9550	13	49.214	0.044	7.5	0.0000	0.0000	OK
30 minute winter	G1	20	49.692	0.012	0.2	0.0011	0.0000	OK
15 minute winter	G2	12	49.710	0.010	0.2	0.0009	0.0000	OK
15 minute winter	xIC10	12	49.646	0.016	0.4	0.0047	0.0000	OK
120 minute winter	xIC11 PUMP 2	146	49.568	0.358	0.2	0.1290	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	9350	1.000	S06_OUT	0.0	0.000	0.000	0.1589	
15 minute winter	RC5	2.000	S04	1.5	0.362	0.096	0.0331	
15 minute winter	RWP1	3.000	S04	1.3	0.531	0.080	0.0181	
15 minute winter	RC4	4.000	S04	1.1	0.606	0.053	0.0026	
15 minute winter	S04	2.001	S05 SFC	4.4	0.824	0.246	0.0498	
15 minute winter	RC2	5.000	S05 SFC	1.4	0.594	0.076	0.0204	
15 minute winter	RC3	6.000	S05 SFC	1.8	0.638	0.100	0.0193	
15 minute winter	S05 SFC	2.002	S02 AT1	7.5	0.911	0.425	0.0083	
15 minute winter	RWP2	7.000	S07	1.2	0.598	0.188	0.0093	
15 minute winter	RC1	8.000	S07	1.1	0.947	0.027	0.0021	
30 minute winter	S07	7.001	S01 SFC	1.7	0.428	0.110	0.0752	
30 minute winter	S01 SFC	7.002	S02 AT1	2.9	0.661	0.189	0.0863	
30 minute winter	S02 AT1	2.003	S03 VFC	5.0	0.423	0.321	0.0458	
30 minute winter	S03 VFC	2.004	S06	5.0	0.724	0.316	0.1642	
15 minute winter	S08	9.000	xIC04	0.8	0.245	0.050	0.0454	
15 minute winter	xIC04	9.001	S06	3.7	0.656	0.204	0.0613	
15 minute winter	RC6	10.000	S06	0.0	0.000	0.000	0.0000	
15 minute winter	S06	2.005	S06_OUT	7.6	0.925	0.434	0.0338	
15 minute winter	S06_OUT	1.001	SW1	7.6	1.270	0.039	0.0784	
15 minute winter	SW1	1.002	9550	7.5	1.165	0.047	0.5347	7.5
30 minute winter	G1	11.000	xIC10	0.2	0.394	0.030	0.0027	
15 minute winter	G2	12.000	xIC10	0.2	0.488	0.019	0.0014	
15 minute winter	xIC10	11.001	xIC11 PUMP 2	0.4	0.524	0.047	0.0008	
120 minute winter	xIC11 PUMP 2	11.002	PUMP 2 OUT	0.0	0.000	0.000	0.0000	0.0

Results for 2 year +45% CC Critical Storm Duration. Lowest mass balance: 98.29%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	PUMP 2 OUT	1	49.200	0.000	0.0	0.0000	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
120 minute winter	xIC11 PUMP 2	Pump	S05 SFC	0.0				0.0

Results for 30 year +45% CC Critical Storm Duration. Lowest mass balance: 98.29%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	9350	1	56.040	0.000	0.0	0.0000	0.0000	OK
15 minute winter	RC5	10	52.750	0.050	3.8	0.0000	0.0000	OK
15 minute winter	RWP1	10	52.848	0.048	3.4	0.0000	0.0000	OK
15 minute winter	RC4	10	53.092	0.042	3.0	0.0000	0.0000	OK
15 minute winter	S04	10	52.735	0.095	11.8	0.0151	0.0000	OK
15 minute winter	RC2	10	52.536	0.046	3.6	0.0000	0.0000	OK
15 minute winter	RC3	10	52.543	0.053	4.5	0.0000	0.0000	OK
15 minute winter	S05 SFC	10	52.400	0.150	19.5	0.0293	0.0000	OK
30 minute winter	RWP2	28	52.186	0.346	2.4	0.0000	0.0000	SURCHARGED
15 minute winter	RC1	10	52.319	0.029	2.8	0.0000	0.0000	OK
30 minute winter	S07	28	52.186	0.445	4.2	0.0708	0.0000	SURCHARGED
30 minute winter	S01 SFC	28	52.185	0.495	7.2	0.0971	0.0000	SURCHARGED
30 minute winter	S02 AT1	28	52.185	0.535	22.1	10.1583	0.0000	SURCHARGED
30 minute winter	S03 VFC	28	52.181	0.551	6.9	0.6230	0.0000	SURCHARGED
15 minute winter	S08	10	51.686	0.036	2.0	0.0026	0.0000	OK
15 minute winter	xIC04	10	51.632	0.082	9.7	0.0240	0.0000	OK
15 minute winter	RC6	1	51.790	0.000	0.0	0.0000	0.0000	OK
15 minute winter	S06	11	51.580	0.130	17.0	0.0255	0.0000	OK
15 minute winter	S06_OUT	11	51.320	0.060	16.9	0.0000	0.0000	OK
15 minute winter	SW1	12	50.926	0.066	16.9	0.0746	0.0000	OK
15 minute winter	9550	12	49.235	0.065	16.8	0.0000	0.0000	OK
15 minute winter	G1	11	49.701	0.021	0.6	0.0019	0.0000	OK
15 minute winter	G2	11	49.715	0.015	0.5	0.0013	0.0000	OK
15 minute winter	xIC10	11	49.658	0.028	1.1	0.0081	0.0000	OK
30 minute winter	xIC11 PUMP 2	24	49.611	0.401	0.9	0.1444	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	9350	1.000	S06_OUT	0.0	0.000	0.000	0.3306	
15 minute winter	RC5	2.000	S04	3.7	0.444	0.244	0.0679	
15 minute winter	RWP1	3.000	S04	3.3	0.698	0.213	0.0366	
15 minute winter	RC4	4.000	S04	3.0	0.794	0.142	0.0054	
15 minute winter	S04	2.001	S05 SFC	11.5	1.038	0.639	0.1030	
15 minute winter	RC2	5.000	S05 SFC	3.5	0.779	0.199	0.0405	
15 minute winter	RC3	6.000	S05 SFC	4.5	0.824	0.251	0.0377	
15 minute winter	S05 SFC	2.002	S02 AT1	19.4	1.141	1.092	0.0168	
30 minute winter	RWP2	7.000	S07	2.2	0.662	0.363	0.0371	
15 minute winter	RC1	8.000	S07	2.8	1.231	0.070	0.0042	
30 minute winter	S07	7.001	S01 SFC	3.2	0.429	0.207	0.1159	
30 minute winter	S01 SFC	7.002	S02 AT1	6.4	0.866	0.418	0.0933	
30 minute winter	S02 AT1	2.003	S03 VFC	6.9	0.511	0.442	0.0458	
30 minute winter	S03 VFC	2.004	S06	6.0	0.823	0.380	0.2458	
15 minute winter	S08	9.000	xIC04	1.9	0.301	0.130	0.0922	
15 minute winter	xIC04	9.001	S06	9.6	0.754	0.532	0.1240	
15 minute winter	RC6	10.000	S06	0.0	0.000	0.000	0.0000	
15 minute winter	S06	2.005	S06_OUT	16.9	1.091	0.966	0.0646	
15 minute winter	S06_OUT	1.001	SW1	16.9	1.587	0.086	0.1384	
15 minute winter	SW1	1.002	9550	16.8	1.476	0.106	0.9435	19.6
15 minute winter	G1	11.000	xIC10	0.6	0.415	0.091	0.0062	
15 minute winter	G2	12.000	xIC10	0.5	0.488	0.048	0.0029	
15 minute winter	xIC10	11.001	xIC11 PUMP 2	1.1	0.680	0.128	0.0016	
30 minute winter	xIC11 PUMP 2	11.002	PUMP 2 OUT	0.0	0.000	0.000	0.0000	0.0

Results for 30 year +45% CC Critical Storm Duration. Lowest mass balance: 98.29%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	PUMP 2 OUT	1	49.200	0.000	0.0	0.0000	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	xIC11 PUMP 2	Pump	S05 SFC	0.0				0.0

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 98.29%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	9350	1	56.040	0.000	0.0	0.0000	0.0000	OK
15 minute winter	RC5	10	52.757	0.057	4.7	0.0000	0.0000	OK
15 minute winter	RWP1	10	52.854	0.054	4.2	0.0000	0.0000	OK
15 minute winter	RC4	10	53.097	0.047	3.7	0.0000	0.0000	OK
15 minute winter	S04	10	52.752	0.112	14.7	0.0178	0.0000	OK
15 minute winter	RC2	10	52.542	0.052	4.5	0.0000	0.0000	OK
15 minute winter	RC3	10	52.550	0.060	5.7	0.0000	0.0000	OK
15 minute winter	S05 SFC	10	52.429	0.179	24.5	0.0350	0.0000	SURCHARGED
60 minute winter	RWP2	48	52.417	0.577	2.1	0.0000	0.0000	FLOOD RISK
60 minute winter	RC1	47	52.417	0.127	1.9	0.0000	0.0000	OK
60 minute winter	S07	48	52.417	0.677	3.4	0.1076	0.0000	SURCHARGED
60 minute winter	S01 SFC	48	52.417	0.727	6.3	0.1424	0.0000	SURCHARGED
60 minute winter	S02 AT1	48	52.415	0.765	19.9	14.5442	0.0000	SURCHARGED
60 minute winter	S03 VFC	48	52.412	0.782	6.7	0.8839	0.0000	SURCHARGED
15 minute winter	S08	10	51.691	0.041	2.5	0.0029	0.0000	OK
15 minute winter	xIC04	11	51.650	0.100	12.2	0.0294	0.0000	OK
15 minute winter	RC6	1	51.790	0.000	0.0	0.0000	0.0000	OK
15 minute winter	S06	11	51.609	0.159	19.9	0.0312	0.0000	SURCHARGED
15 minute winter	S06_OUT	11	51.325	0.065	19.7	0.0000	0.0000	OK
15 minute winter	SW1	11	50.931	0.071	19.8	0.0805	0.0000	OK
15 minute winter	9550	12	49.240	0.070	19.5	0.0000	0.0000	OK
15 minute winter	G1	10	49.704	0.024	0.8	0.0021	0.0000	OK
15 minute winter	G2	11	49.716	0.016	0.6	0.0015	0.0000	OK
15 minute winter	xIC10	11	49.661	0.031	1.4	0.0092	0.0000	OK
60 minute winter	xIC11 PUMP 2	35	49.611	0.401	0.7	0.1444	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	9350	1.000	S06_OUT	0.0	0.000	0.000	0.3791	
15 minute winter	RC5	2.000	S04	4.7	0.464	0.304	0.0809	
15 minute winter	RWP1	3.000	S04	4.2	0.741	0.264	0.0428	
15 minute winter	RC4	4.000	S04	3.7	0.840	0.175	0.0063	
15 minute winter	S04	2.001	S05 SFC	14.4	1.083	0.800	0.1235	
15 minute winter	RC2	5.000	S05 SFC	4.4	0.827	0.248	0.0476	
15 minute winter	RC3	6.000	S05 SFC	5.6	0.877	0.318	0.0448	
15 minute winter	S05 SFC	2.002	S02 AT1	24.4	1.386	1.374	0.0173	
60 minute winter	RWP2	7.000	S07	1.5	0.598	0.238	0.0371	
60 minute winter	RC1	8.000	S07	2.2	1.112	0.055	0.0310	
60 minute winter	S07	7.001	S01 SFC	2.6	0.365	0.168	0.1159	
60 minute winter	S01 SFC	7.002	S02 AT1	5.6	0.744	0.364	0.0933	
60 minute winter	S02 AT1	2.003	S03 VFC	6.7	0.476	0.429	0.0458	
60 minute winter	S03 VFC	2.004	S06	6.0	0.823	0.380	0.2331	
15 minute winter	S08	9.000	xIC04	2.4	0.304	0.164	0.1147	
15 minute winter	xIC04	9.001	S06	11.8	0.782	0.656	0.1461	
15 minute winter	RC6	10.000	S06	0.0	0.000	0.000	0.0000	
15 minute winter	S06	2.005	S06_OUT	19.7	1.137	1.128	0.0694	
15 minute winter	S06_OUT	1.001	SW1	19.8	1.655	0.101	0.1555	
15 minute winter	SW1	1.002	9550	19.5	1.541	0.123	1.0501	24.9
15 minute winter	G1	11.000	xIC10	0.8	0.442	0.116	0.0073	
15 minute winter	G2	12.000	xIC10	0.6	0.441	0.057	0.0034	
15 minute winter	xIC10	11.001	xIC11 PUMP 2	1.4	0.718	0.158	0.0019	
60 minute winter	xIC11 PUMP 2	11.002	PUMP 2 OUT	0.0	0.000	0.000	0.0000	0.0

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 98.29%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	PUMP 2 OUT	1	49.200	0.000	0.0	0.0000	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
60 minute winter	xIC11 PUMP 2	Pump	S05 SFC	5.0				0.3

Results for 1000 year Critical Storm Duration. Lowest mass balance: 98.29%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	9350	1	56.040	0.000	0.0	0.0000	0.0000	OK
15 minute winter	RC5	10	52.756	0.056	4.7	0.0000	0.0000	OK
15 minute winter	RWP1	10	52.854	0.054	4.2	0.0000	0.0000	OK
15 minute winter	RC4	10	53.097	0.047	3.7	0.0000	0.0000	OK
15 minute winter	S04	10	52.752	0.112	14.7	0.0178	0.0000	OK
15 minute winter	RC2	10	52.542	0.052	4.5	0.0000	0.0000	OK
15 minute winter	RC3	10	52.550	0.060	5.7	0.0000	0.0000	OK
60 minute winter	S05 SFC	47	52.443	0.193	17.0	0.0379	0.0000	SURCHARGED
60 minute winter	RWP2	48	52.443	0.603	2.2	0.0000	0.0000	FLOOD RISK
60 minute winter	RC1	48	52.443	0.153	1.9	0.0000	0.0000	SURCHARGED
60 minute winter	S07	48	52.443	0.703	5.0	0.1118	0.0000	SURCHARGED
60 minute winter	S01 SFC	48	52.442	0.752	6.4	0.1475	0.0000	SURCHARGED
60 minute winter	S02 AT1	48	52.442	0.792	20.3	15.0514	0.0000	SURCHARGED
60 minute winter	S03 VFC	48	52.437	0.807	6.7	0.9133	0.0000	SURCHARGED
15 minute winter	S08	10	51.690	0.040	2.4	0.0029	0.0000	OK
15 minute winter	xIC04	11	51.649	0.099	12.2	0.0291	0.0000	OK
15 minute winter	RC6	1	51.790	0.000	0.0	0.0000	0.0000	OK
15 minute winter	S06	11	51.608	0.158	19.8	0.0310	0.0000	SURCHARGED
15 minute winter	S06_OUT	11	51.324	0.064	19.6	0.0000	0.0000	OK
15 minute winter	SW1	11	50.931	0.071	19.7	0.0803	0.0000	OK
15 minute winter	9550	12	49.240	0.070	19.4	0.0000	0.0000	OK
15 minute winter	G1	10	49.704	0.024	0.8	0.0021	0.0000	OK
15 minute winter	G2	11	49.716	0.016	0.6	0.0015	0.0000	OK
15 minute winter	xIC10	11	49.661	0.031	1.4	0.0092	0.0000	OK
30 minute winter	xIC11 PUMP 2	20	49.611	0.401	1.1	0.1445	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute winter	9350	1.000	S06_OUT	0.0	0.000	0.000	0.3774	
15 minute winter	RC5	2.000	S04	4.6	0.458	0.303	0.0807	
15 minute winter	RWP1	3.000	S04	4.2	0.741	0.264	0.0428	
15 minute winter	RC4	4.000	S04	3.7	0.840	0.175	0.0063	
15 minute winter	S04	2.001	S05 SFC	14.4	1.083	0.798	0.1232	
15 minute winter	RC2	5.000	S05 SFC	4.4	0.827	0.248	0.0476	
15 minute winter	RC3	6.000	S05 SFC	5.6	0.877	0.318	0.0448	
60 minute winter	S05 SFC	2.002	S02 AT1	14.8	1.072	0.832	0.0176	
60 minute winter	RWP2	7.000	S07	1.6	0.592	0.250	0.0371	
60 minute winter	RC1	8.000	S07	3.5	1.112	0.089	0.0325	
60 minute winter	S07	7.001	S01 SFC	2.6	0.365	0.171	0.1159	
60 minute winter	S01 SFC	7.002	S02 AT1	5.7	0.749	0.372	0.0933	
60 minute winter	S02 AT1	2.003	S03 VFC	6.7	0.478	0.430	0.0458	
60 minute winter	S03 VFC	2.004	S06	6.0	0.823	0.380	0.2347	
15 minute winter	S08	9.000	xIC04	2.4	0.299	0.159	0.1136	
15 minute winter	xIC04	9.001	S06	11.8	0.782	0.655	0.1455	
15 minute winter	RC6	10.000	S06	0.0	0.000	0.000	0.0000	
15 minute winter	S06	2.005	S06_OUT	19.6	1.134	1.123	0.0694	
15 minute winter	S06_OUT	1.001	SW1	19.7	1.653	0.101	0.1549	
15 minute winter	SW1	1.002	9550	19.4	1.539	0.122	1.0468	24.8
15 minute winter	G1	11.000	xIC10	0.8	0.442	0.116	0.0073	
15 minute winter	G2	12.000	xIC10	0.6	0.441	0.057	0.0034	
15 minute winter	xIC10	11.001	xIC11 PUMP 2	1.4	0.718	0.158	0.0019	
30 minute winter	xIC11 PUMP 2	11.002	PUMP 2 OUT	0.0	0.000	0.000	0.0000	0.0

Results for 1000 year Critical Storm Duration. Lowest mass balance: 98.29%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute winter	PUMP 2 OUT	1	49.200	0.000	0.0	0.0000	0.0000	OK
Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
30 minute winter	xC11 PUMP 2	Pump	S05 SFC	5.0				0.6