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Victoria Court 22 St Pancras West Sussex PO19 7GD	34 Hurst Road, Hassocks Surface Water Drainage Design Simulation Rev03	
Date Nov 25	Designed by JS	
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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	2	Add Flow / Climate Change (%)	45
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.000
Ratio R	0.343	Maximum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	50	Min Design Depth for Optimisation (m)	0.000
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	0.76
Volumetric Runoff Coeff.	1.000	Min Slope for Optimisation (1:X)	500
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.014	4-8	0.002

Total Area Contributing (ha) = 0.016

Total Pipe Volume (m³) = 0.381

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)
1.000	16.200	1.906	8.5	0.004	5.00	0.0	0.600	o	110
1.001	5.000	0.050	100.0	0.004	0.00	0.0	0.600	o	110
2.000	3.600	0.379	9.5	0.004	5.00	0.0	0.600	o	110
2.001	9.200	1.533	6.0	0.004	0.00	0.0	0.600	o	110
1.002	3.600	0.045	80.0	0.000	0.00	0.0	0.600	o	110
1.003	1.000	0.010	100.0	0.000	0.00	0.0	0.600	o	110
1.004	1.500	0.015	100.0	0.000	0.00	0.0	0.600	o	110

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.000	50.00	5.10	65.400	0.004	0.0	0.0	0.3	2.84	27.0	1.0
1.001	50.00	5.20	63.494	0.008	0.0	0.0	0.6	0.82	7.8	2.1
2.000	50.00	5.02	65.400	0.004	0.0	0.0	0.3	2.69	25.5	1.0
2.001	50.00	5.07	65.000	0.008	0.0	0.0	0.6	3.38	32.2	2.1
1.002	50.00	5.26	63.444	0.016	0.0	0.0	1.3	0.92	8.7	4.2
1.003	50.00	5.28	63.250	0.016	0.0	0.0	1.3	0.82	7.8	4.2
1.004	50.00	5.31	63.100	0.016	0.0	0.0	1.3	0.82	7.8	4.2

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Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backd (mm)
RE1	66.000	0.600	Open Manhole	110	1.000	65.400	110				
S1	64.100	0.606	Open Manhole	600	1.001	63.494	110	1.000	63.494	110	
RE2	66.000	0.600	Open Manhole	110	2.000	65.400	110				
S2	65.650	0.650	Open Manhole	600	2.001	65.000	110	2.000	65.021	110	
S3	64.100	0.656	Open Manhole	600	1.002	63.444	110	1.001	63.444	110	
								2.001	63.467	110	
S4	64.000	0.750	Open Manhole	600	1.003	63.250	110	1.002	63.399	110	
RAIN GARDEN	63.700	0.600	Open Manhole	600	1.004	63.100	110	1.003	63.240	110	
Dummy	63.800	0.715	Open Manhole	600		OUTFALL		1.004	63.085	110	

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PIPELINE SCHEDULES for Storm

Upstream Manhole

PN	Hyd Sect	Diam (mm)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	o	110	RE1	66.000	65.400	0.490	Open Manhole	110
1.001	o	110	S1	64.100	63.494	0.496	Open Manhole	600
2.000	o	110	RE2	66.000	65.400	0.490	Open Manhole	110
2.001	o	110	S2	65.650	65.000	0.540	Open Manhole	600
1.002	o	110	S3	64.100	63.444	0.546	Open Manhole	600
1.003	o	110	S4	64.000	63.250	0.640	Open Manhole	600
1.004	o	110	RAIN GARDEN	63.700	63.100	0.490	Open Manhole	600

Downstream Manhole

PN	Length (m)	Slope (1:X)	MH Name	C.Level (m)	I.Level (m)	D.Depth (m)	MH Connection	MH DIAM., L*W (mm)
1.000	16.200	8.5	S1	64.100	63.494	0.496	Open Manhole	600
1.001	5.000	100.0	S3	64.100	63.444	0.546	Open Manhole	600
2.000	3.600	9.5	S2	65.650	65.021	0.519	Open Manhole	600
2.001	9.200	6.0	S3	64.100	63.467	0.523	Open Manhole	600
1.002	3.600	80.0	S4	64.000	63.399	0.491	Open Manhole	600
1.003	1.000	100.0	RAIN GARDEN	63.700	63.240	0.350	Open Manhole	600
1.004	1.500	100.0	Dummy	63.800	63.085	0.605	Open Manhole	600

Free Flowing Outfall Details for Storm

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
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1.004	Dummy	63.800	63.085	63.100	600	0
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Simulation Criteria for Storm

Volumetric Runoff Coeff	1.000	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	45.000
Hot Start (mins)	0	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	1200
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	10

Number of Input Hydrographs	0	Number of Storage Structures	2
Number of Online Controls	2	Number of Time/Area Diagrams	0
Number of Offline Controls	0		

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	600
Ratio R	0.343		

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Online Controls for Storm

Orifice Manhole: S4, DS/PN: 1.003, Volume (m³): 0.2

Diameter (m) 0.017 Discharge Coefficient 0.600 Invert Level (m) 63.250

Depth/Flow Relationship Manhole: RAIN GARDEN, DS/PN: 1.004, Volume (m³): 0.2

Invert Level (m) 63.100

Depth (m) Flow (l/s)

0.700 0.0400

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Storage Structures for Storm

cellular Storage Manhole: S4, DS/PN: 1.003

Invert Level (m) 63.250 Safety Factor 2.0
Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95
Infiltration Coefficient Side (m/hr) 0.00000

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	30.0	30.0	0.500	0.0	43.6
0.400	30.0	43.6			

Infiltration Blanket Manhole: RAIN GARDEN, DS/PN: 1.004

Infiltration Coefficient Base (m/hr) 0.04461 Diameter/Width (m) 1.2
Safety Factor 2.0 Length (m) 7.7
Porosity 0.30 Cap Volume Depth (m) 0.000
Invert Level (m) 63.100

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	RE1	0.500
1.001	S1	0.500
2.000	RE2	0.500
2.001	S2	0.500
1.002	S3	0.500
1.003	S4	0.500
1.004	RAIN GARDEN	0.500

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Summary of Results for 600 minute 100 year Summer (Storm)

Margin for Flood Risk Warning (mm) 0.0 DVD Status OFF
Analysis Timestep Fine Inertia Status OFF
DTS Status ON

PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.409	-0.101	0.000	0.02	0.0	0.5	OK
1.001	S1	63.753	0.148	0.000	0.14	0.0	0.9	SURCHARGED
2.000	RE2	65.411	-0.099	0.000	0.02	0.0	0.5	OK
2.001	S2	65.013	-0.097	0.000	0.03	0.0	0.9	OK
1.002	S3	63.752	0.198	0.000	0.25	0.0	1.8	SURCHARGED
1.003	S4	63.752	0.392	0.000	0.05	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.674	0.464	0.000	0.01	0.0	0.0	SURCHARGED

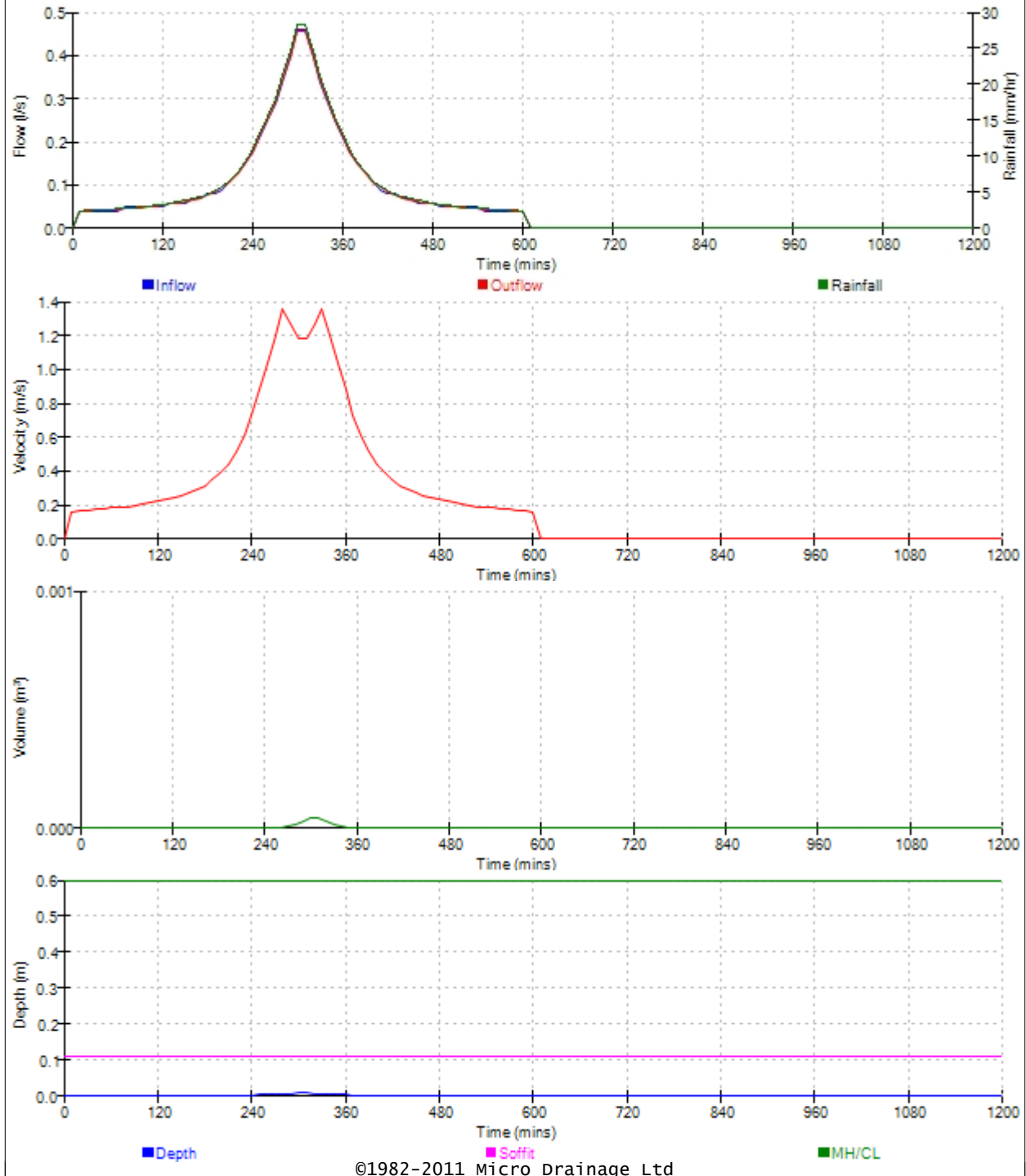
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Rainfall Hyetograph for 600 minute 100 year Summer (Storm)

Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
10	2.431	130	3.512	250	13.298	370	10.926	490	3.347
20	2.491	140	3.692	260	15.609	380	9.230	500	3.227
30	2.551	150	3.872	270	18.100	390	7.759	510	3.107
40	2.626	160	4.112	280	21.342	400	6.619	520	2.972
50	2.687	170	4.367	290	24.644	410	5.853	530	2.867
60	2.747	180	4.713	300	28.396	420	5.223	540	2.807
70	2.807	190	5.223	310	28.396	430	4.713	550	2.747
80	2.867	200	5.853	320	24.644	440	4.368	560	2.687
90	2.972	210	6.619	330	21.342	450	4.112	570	2.626
100	3.107	220	7.759	340	18.100	460	3.872	580	2.551
110	3.227	230	9.230	350	15.609	470	3.692	590	2.491
120	3.347	240	10.926	360	13.298	480	3.512	600	2.431

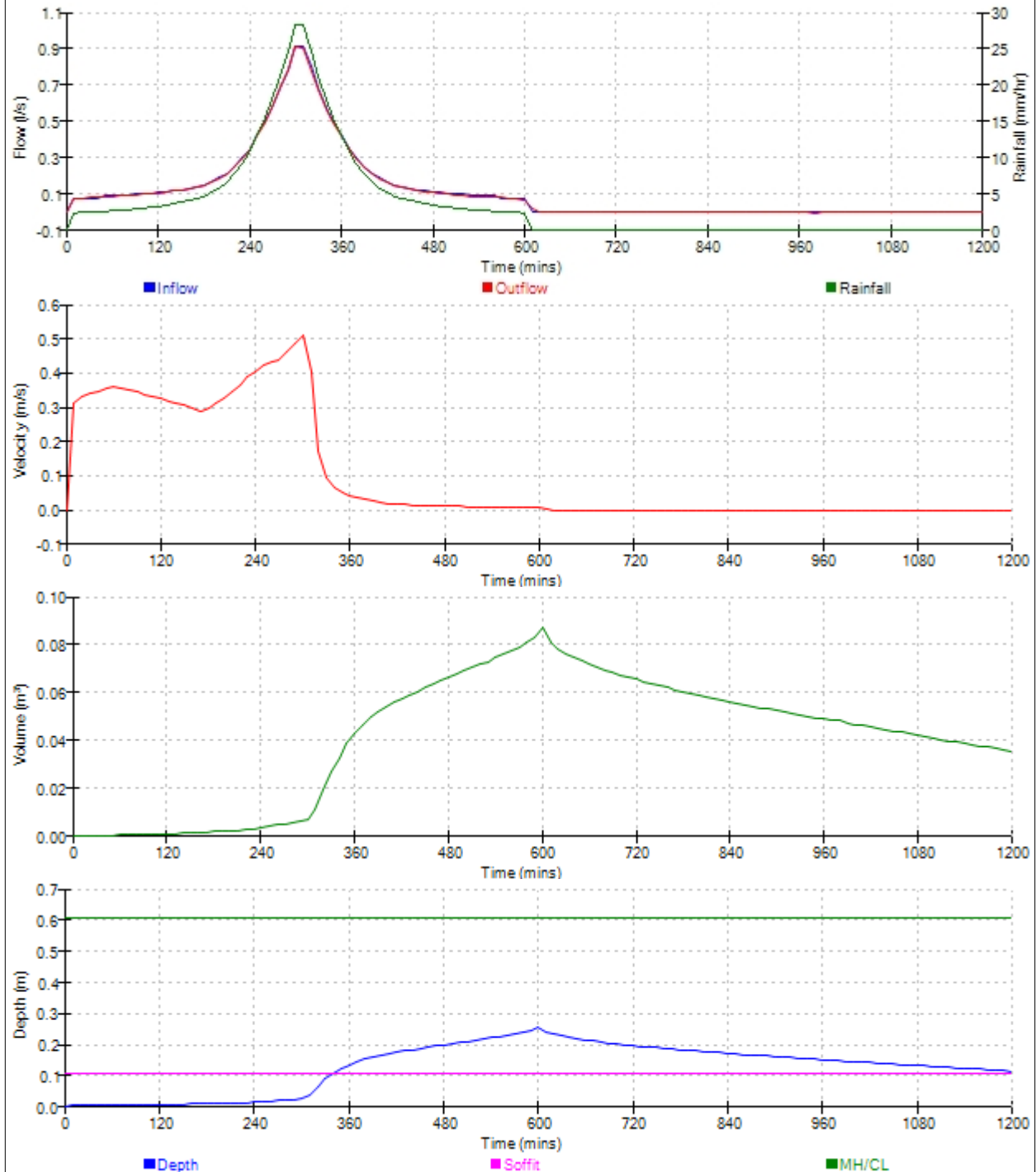
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Graphs for Pipe 1.000 US/MH RE1 (Storm)
600 minute 100 year Summer
Status: OK



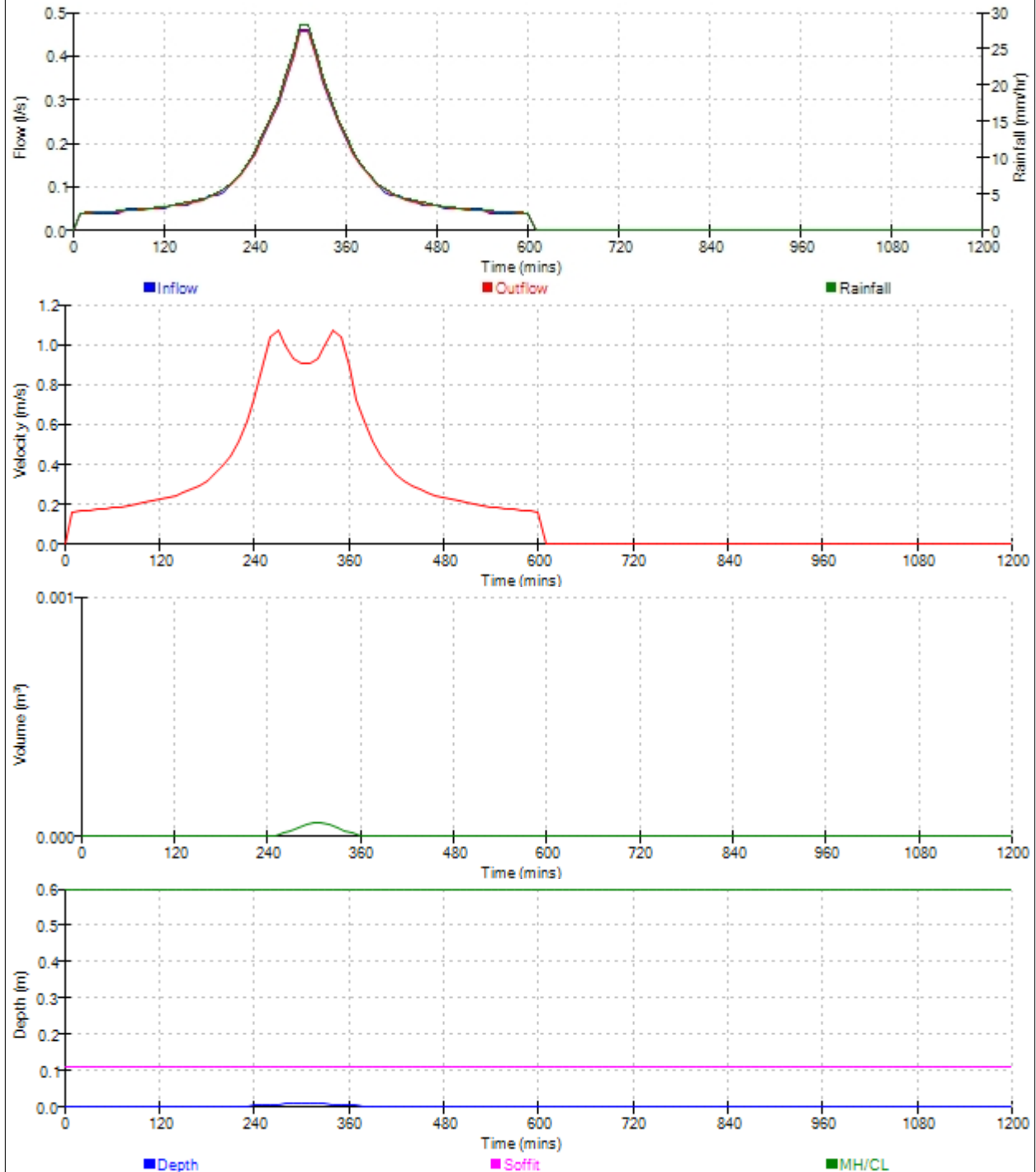
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Graphs for Pipe 1.001 US/MH S1 (Storm)
600 minute 100 year Summer
Status: SURCHARGED



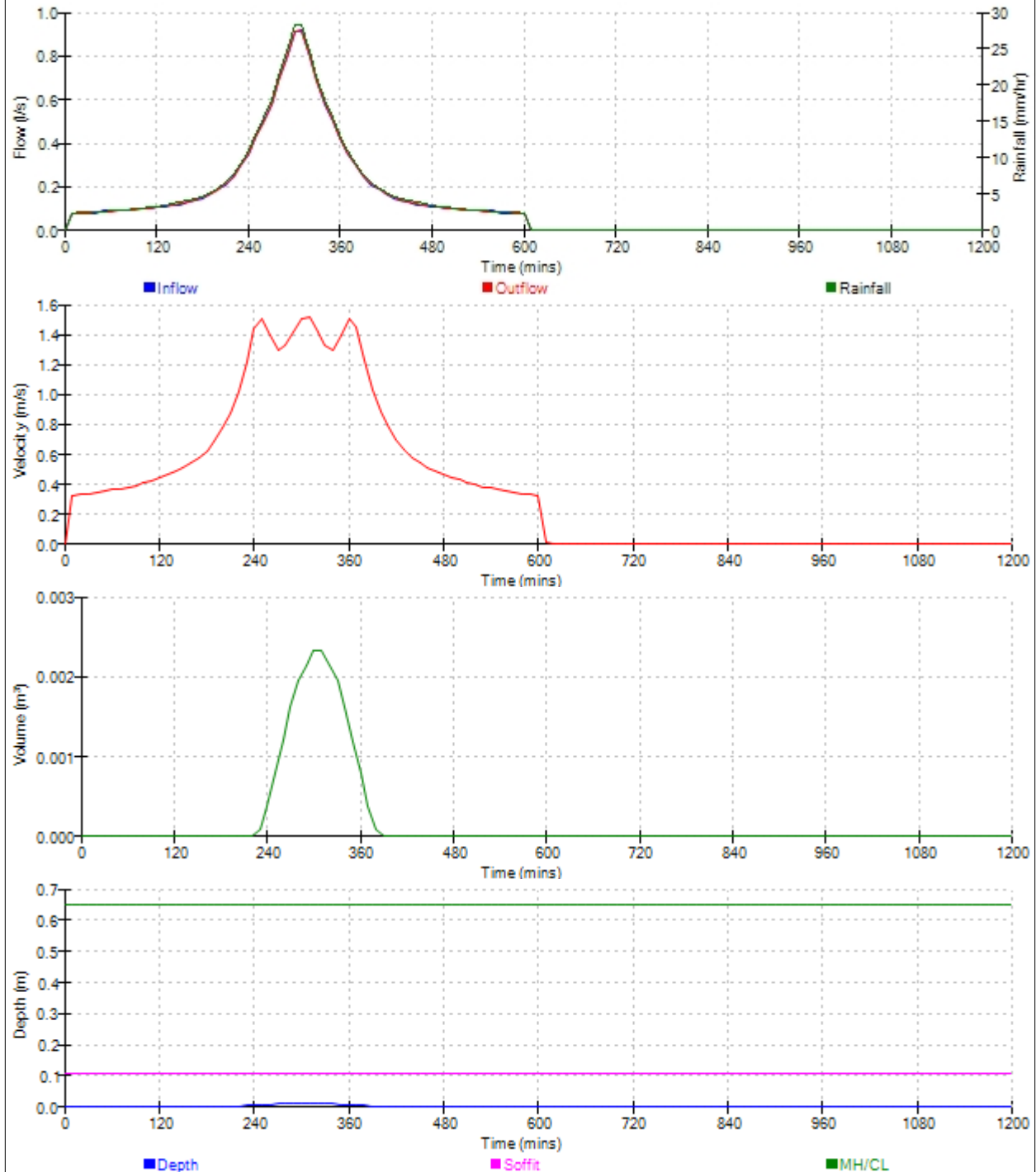
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
600 minute 100 year Summer
Status: OK



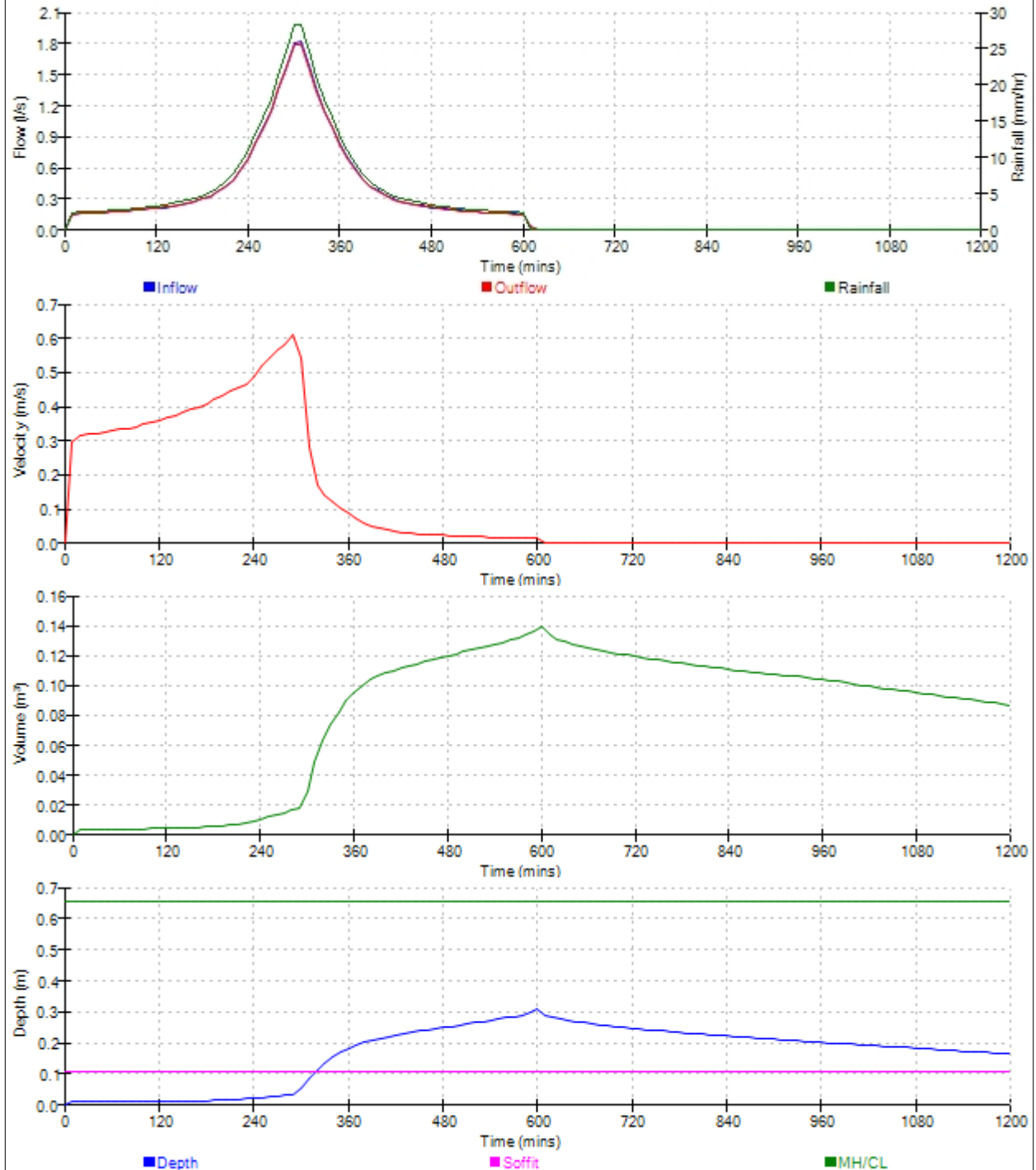
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Graphs for Pipe 2.001 US/MH S2 (Storm)
600 minute 100 year Summer
Status: OK



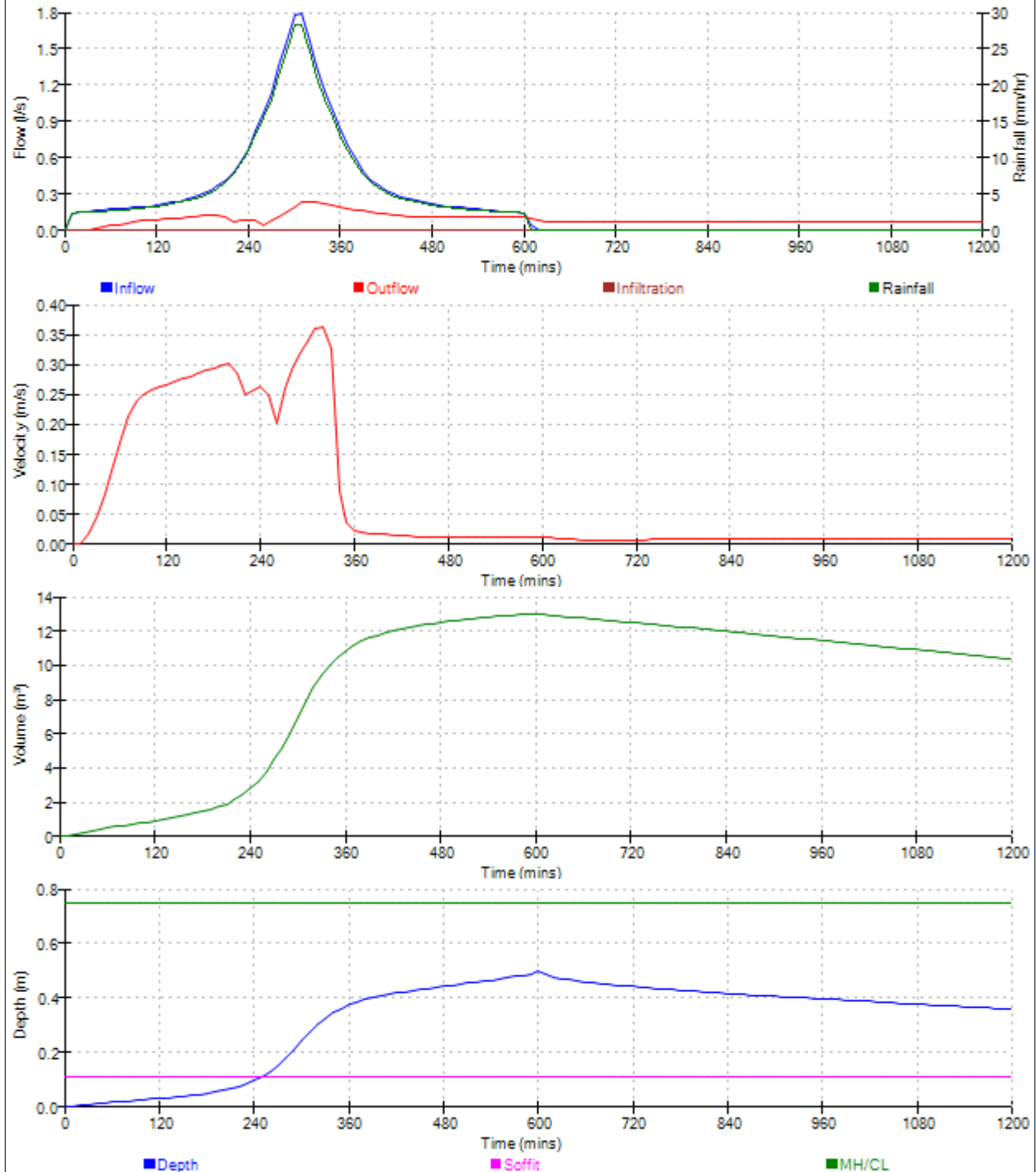
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Graphs for Pipe 1.002 US/MH S3 (Storm)
600 minute 100 year Summer
Status: SURCHARGED

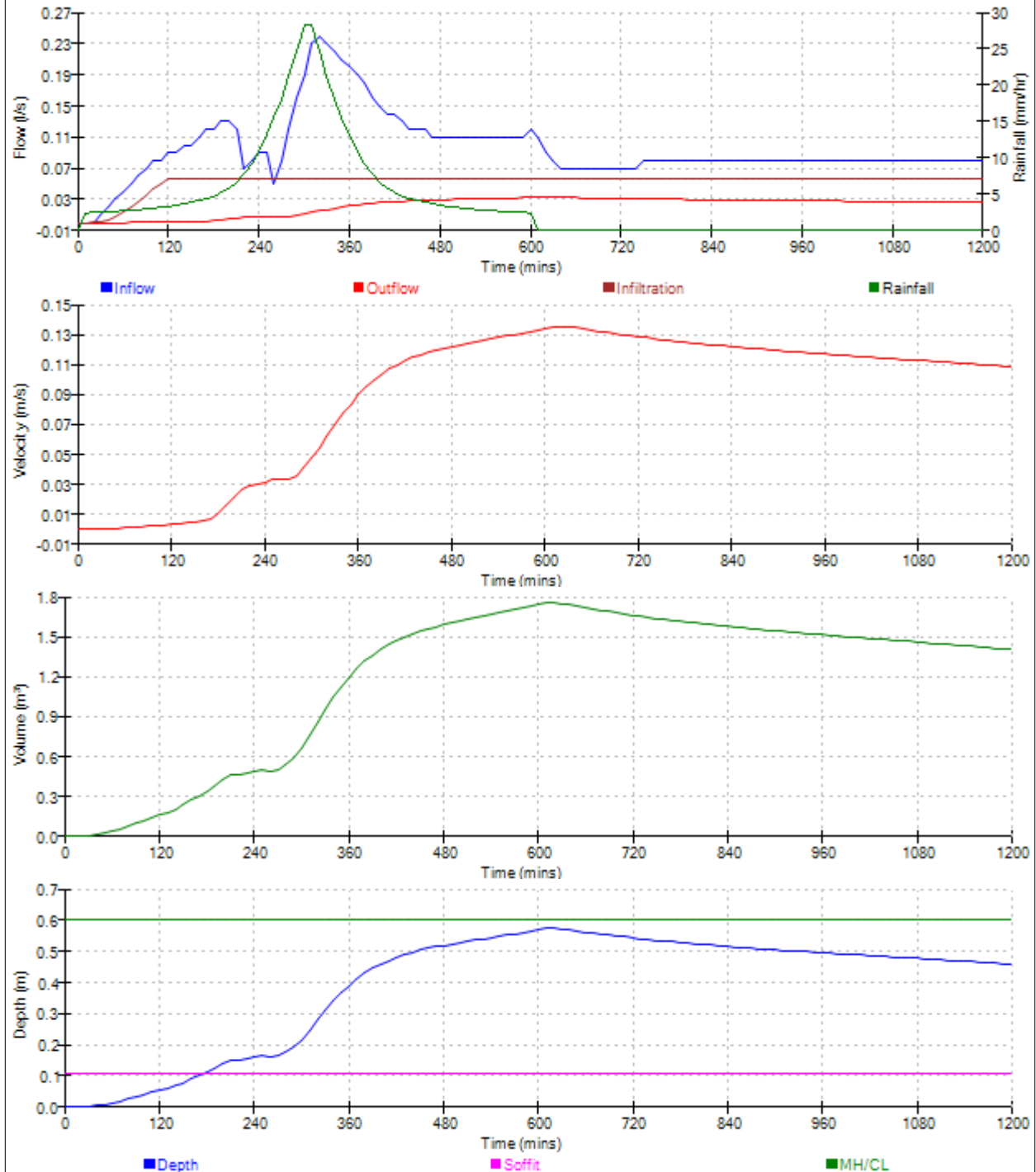


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Graphs for Pipe 1.003 US/MH S4 (Storm)
600 minute 100 year Summer
Status: SURCHARGED



Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
600 minute 100 year Summer
Status: SURCHARGED



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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	65.400	63.639	-0.110	0.0	0.0	0.0
1020	65.400	63.637	-0.110	0.0	0.0	0.0
1030	65.400	63.636	-0.110	0.0	0.0	0.0
1040	65.400	63.634	-0.110	0.0	0.0	0.0
1050	65.400	63.632	-0.110	0.0	0.0	0.0
1060	65.400	63.631	-0.110	0.0	0.0	0.0
1070	65.400	63.629	-0.110	0.0	0.0	0.0
1080	65.400	63.627	-0.110	0.0	0.0	0.0
1090	65.400	63.626	-0.110	0.0	0.0	0.0
1100	65.400	63.625	-0.110	0.0	0.0	0.0
1110	65.400	63.623	-0.110	0.0	0.0	0.0
1120	65.400	63.621	-0.110	0.0	0.0	0.0
1130	65.400	63.620	-0.110	0.0	0.0	0.0
1140	65.400	63.618	-0.110	0.0	0.0	0.0
1150	65.400	63.617	-0.110	0.0	0.0	0.0
1160	65.400	63.615	-0.110	0.0	0.0	0.0
1170	65.400	63.614	-0.110	0.0	0.0	0.0
1180	65.400	63.612	-0.110	0.0	0.0	0.0
1190	65.400	63.611	-0.110	0.0	0.0	0.0
1200	65.400	63.609	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10	63.500	63.455	-0.104	0.0	0.3	0.1
20	63.500	63.455	-0.104	0.0	0.3	0.1
30	63.500	63.455	-0.104	0.0	0.3	0.1
40	63.501	63.456	-0.103	0.0	0.3	0.1
50	63.501	63.456	-0.103	0.0	0.4	0.1
60	63.501	63.456	-0.103	0.0	0.4	0.1
70	63.501	63.456	-0.103	0.0	0.4	0.1
80	63.501	63.456	-0.103	0.0	0.4	0.1
90	63.502	63.456	-0.103	0.0	0.3	0.1
100	63.502	63.456	-0.102	0.0	0.3	0.1
110	63.502	63.456	-0.102	0.0	0.3	0.1
120	63.502	63.457	-0.102	0.0	0.3	0.1
130	63.503	63.457	-0.101	0.0	0.3	0.1
140	63.503	63.457	-0.101	0.0	0.3	0.1
150	63.504	63.457	-0.100	0.0	0.3	0.1
160	63.504	63.458	-0.100	0.0	0.3	0.1
170	63.505	63.458	-0.099	0.0	0.3	0.1
180	63.505	63.459	-0.099	0.0	0.3	0.2
190	63.506	63.459	-0.098	0.0	0.3	0.2
200	63.506	63.460	-0.098	0.0	0.3	0.2
210	63.507	63.461	-0.097	0.0	0.3	0.2
220	63.508	63.463	-0.096	0.0	0.4	0.2
230	63.509	63.465	-0.095	0.0	0.4	0.3
240	63.510	63.467	-0.094	0.0	0.4	0.3
250	63.512	63.469	-0.092	0.0	0.4	0.4
260	63.514	63.471	-0.090	0.0	0.4	0.5
270	63.516	63.474	-0.088	0.0	0.4	0.6
280	63.518	63.477	-0.087	0.0	0.5	0.7
290	63.519	63.479	-0.085	0.0	0.5	0.8
300	63.521	63.498	-0.083	0.0	0.5	0.9
310	63.535	63.532	-0.069	0.0	0.4	0.9
320	63.561	63.558	-0.043	0.0	0.2	0.8
330	63.584	63.581	-0.020	0.0	0.1	0.7
340	63.602	63.600	-0.002	0.0	0.1	0.6
350	63.618	63.616	0.014	0.0	0.1	0.5
360	63.630	63.629	0.026	0.0	0.0	0.4
370	63.640	63.639	0.036	0.0	0.0	0.3
380	63.648	63.647	0.044	0.0	0.0	0.3
390	63.655	63.654	0.051	0.0	0.0	0.2
400	63.661	63.660	0.056	0.0	0.0	0.2
410	63.665	63.665	0.061	0.0	0.0	0.2
420	63.670	63.669	0.066	0.0	0.0	0.2
430	63.674	63.674	0.070	0.0	0.0	0.1
440	63.679	63.678	0.075	0.0	0.0	0.1
450	63.683	63.682	0.079	0.0	0.0	0.1
460	63.687	63.686	0.083	0.0	0.0	0.1
470	63.690	63.690	0.086	0.0	0.0	0.1
480	63.694	63.694	0.090	0.0	0.0	0.1
490	63.698	63.698	0.094	0.0	0.0	0.1
500	63.702	63.701	0.098	0.0	0.0	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
510	63.706	63.705	0.101	0.0	0.0	0.1
520	63.709	63.709	0.105	0.0	0.0	0.1
530	63.713	63.713	0.109	0.0	0.0	0.1
540	63.717	63.717	0.113	0.0	0.0	0.1
550	63.721	63.721	0.117	0.0	0.0	0.1
560	63.725	63.725	0.121	0.0	0.0	0.1
570	63.730	63.730	0.126	0.0	0.0	0.1
580	63.735	63.735	0.131	0.0	0.0	0.1
590	63.741	63.741	0.137	0.0	0.0	0.1
600	63.753	63.752	0.148	0.0	0.0	0.1
610	63.735	63.735	0.131	0.0	0.0	0.0
620	63.727	63.727	0.123	0.0	0.0	0.0
630	63.722	63.722	0.117	0.0	0.0	0.0
640	63.717	63.717	0.113	0.0	0.0	0.0
650	63.713	63.713	0.109	0.0	0.0	0.0
660	63.710	63.710	0.106	0.0	0.0	0.0
670	63.707	63.707	0.102	0.0	0.0	0.0
680	63.703	63.703	0.099	0.0	0.0	0.0
690	63.700	63.700	0.096	0.0	0.0	0.0
700	63.697	63.697	0.093	0.0	0.0	0.0
710	63.695	63.695	0.091	0.0	0.0	0.0
720	63.692	63.692	0.088	0.0	0.0	0.0
730	63.690	63.690	0.086	0.0	0.0	0.0
740	63.687	63.687	0.083	0.0	0.0	0.0
750	63.685	63.685	0.081	0.0	0.0	0.0
760	63.683	63.683	0.079	0.0	0.0	0.0
770	63.680	63.681	0.076	0.0	0.0	0.0
780	63.678	63.679	0.074	0.0	0.0	0.0
790	63.676	63.677	0.072	0.0	0.0	0.0
800	63.675	63.675	0.070	0.0	0.0	0.0
810	63.673	63.673	0.069	0.0	0.0	0.0
820	63.671	63.671	0.066	0.0	0.0	0.0
830	63.669	63.669	0.064	0.0	0.0	0.0
840	63.667	63.667	0.063	0.0	0.0	0.0
850	63.664	63.664	0.060	0.0	0.0	0.0
860	63.663	63.663	0.059	0.0	0.0	0.0
870	63.661	63.661	0.057	0.0	0.0	0.0
880	63.659	63.660	0.055	0.0	0.0	0.0
890	63.658	63.658	0.054	0.0	0.0	0.0
900	63.656	63.656	0.052	0.0	0.0	0.0
910	63.655	63.654	0.050	0.0	0.0	0.0
920	63.653	63.653	0.049	0.0	0.0	0.0
930	63.652	63.652	0.048	0.0	0.0	0.0
940	63.649	63.650	0.045	0.0	0.0	0.0
950	63.648	63.648	0.044	0.0	0.0	0.0
960	63.647	63.647	0.043	0.0	0.0	0.0
970	63.645	63.645	0.041	0.0	0.0	0.0
980	63.644	63.644	0.040	0.0	0.0	0.0
990	63.642	63.642	0.038	0.0	0.0	0.0
1000	63.640	63.640	0.036	0.0	0.0	0.0

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Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	63.639	63.639	0.035	0.0	0.0	0.0
1020	63.637	63.637	0.033	0.0	0.0	0.0
1030	63.636	63.636	0.032	0.0	0.0	0.0
1040	63.634	63.634	0.030	0.0	0.0	0.0
1050	63.632	63.633	0.028	0.0	0.0	0.0
1060	63.631	63.631	0.027	0.0	0.0	0.0
1070	63.629	63.629	0.025	0.0	0.0	0.0
1080	63.627	63.628	0.023	0.0	0.0	0.0
1090	63.626	63.626	0.022	0.0	0.0	0.0
1100	63.625	63.625	0.021	0.0	0.0	0.0
1110	63.623	63.624	0.019	0.0	0.0	0.0
1120	63.621	63.622	0.017	0.0	0.0	0.0
1130	63.620	63.620	0.016	0.0	0.0	0.0
1140	63.618	63.618	0.014	0.0	0.0	0.0
1150	63.617	63.617	0.013	0.0	0.0	0.0
1160	63.615	63.616	0.011	0.0	0.0	0.0
1170	63.614	63.614	0.010	0.0	0.0	0.0
1180	63.612	63.613	0.008	0.0	0.0	0.0
1190	63.611	63.611	0.007	0.0	0.0	0.0
1200	63.609	63.609	0.005	0.0	0.0	0.0

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Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
510	65.401	65.002	-0.109	0.0	0.2	0.1
520	65.401	65.002	-0.109	0.0	0.2	0.0
530	65.401	65.002	-0.109	0.0	0.2	0.0
540	65.401	65.002	-0.109	0.0	0.2	0.0
550	65.401	65.002	-0.109	0.0	0.2	0.0
560	65.401	65.002	-0.109	0.0	0.2	0.0
570	65.401	65.001	-0.109	0.0	0.2	0.0
580	65.401	65.001	-0.109	0.0	0.2	0.0
590	65.401	65.001	-0.109	0.0	0.2	0.0
600	65.401	65.001	-0.109	0.0	0.2	0.0
610	65.400	65.000	-0.110	0.0	0.0	0.0
620	65.400	65.000	-0.110	0.0	0.0	0.0
630	65.400	65.000	-0.110	0.0	0.0	0.0
640	65.400	65.000	-0.110	0.0	0.0	0.0
650	65.400	65.000	-0.110	0.0	0.0	0.0
660	65.400	65.000	-0.110	0.0	0.0	0.0
670	65.400	65.000	-0.110	0.0	0.0	0.0
680	65.400	65.000	-0.110	0.0	0.0	0.0
690	65.400	65.000	-0.110	0.0	0.0	0.0
700	65.400	65.000	-0.110	0.0	0.0	0.0
710	65.400	65.000	-0.110	0.0	0.0	0.0
720	65.400	65.000	-0.110	0.0	0.0	0.0
730	65.400	65.000	-0.110	0.0	0.0	0.0
740	65.400	65.000	-0.110	0.0	0.0	0.0
750	65.400	65.000	-0.110	0.0	0.0	0.0
760	65.400	65.000	-0.110	0.0	0.0	0.0
770	65.400	65.000	-0.110	0.0	0.0	0.0
780	65.400	65.000	-0.110	0.0	0.0	0.0
790	65.400	65.000	-0.110	0.0	0.0	0.0
800	65.400	65.000	-0.110	0.0	0.0	0.0
810	65.400	65.000	-0.110	0.0	0.0	0.0
820	65.400	65.000	-0.110	0.0	0.0	0.0
830	65.400	65.000	-0.110	0.0	0.0	0.0
840	65.400	65.000	-0.110	0.0	0.0	0.0
850	65.400	65.000	-0.110	0.0	0.0	0.0
860	65.400	65.000	-0.110	0.0	0.0	0.0
870	65.400	65.000	-0.110	0.0	0.0	0.0
880	65.400	65.000	-0.110	0.0	0.0	0.0
890	65.400	65.000	-0.110	0.0	0.0	0.0
900	65.400	65.000	-0.110	0.0	0.0	0.0
910	65.400	65.000	-0.110	0.0	0.0	0.0
920	65.400	65.000	-0.110	0.0	0.0	0.0
930	65.400	65.000	-0.110	0.0	0.0	0.0
940	65.400	65.000	-0.110	0.0	0.0	0.0
950	65.400	65.000	-0.110	0.0	0.0	0.0
960	65.400	65.000	-0.110	0.0	0.0	0.0
970	65.400	65.000	-0.110	0.0	0.0	0.0
980	65.400	65.000	-0.110	0.0	0.0	0.0
990	65.400	65.000	-0.110	0.0	0.0	0.0
1000	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
1010	65.400	65.000	-0.110	0.0	0.0	0.0
1020	65.400	65.000	-0.110	0.0	0.0	0.0
1030	65.400	65.000	-0.110	0.0	0.0	0.0
1040	65.400	65.000	-0.110	0.0	0.0	0.0
1050	65.400	65.000	-0.110	0.0	0.0	0.0
1060	65.400	65.000	-0.110	0.0	0.0	0.0
1070	65.400	65.000	-0.110	0.0	0.0	0.0
1080	65.400	65.000	-0.110	0.0	0.0	0.0
1090	65.400	65.000	-0.110	0.0	0.0	0.0
1100	65.400	65.000	-0.110	0.0	0.0	0.0
1110	65.400	65.000	-0.110	0.0	0.0	0.0
1120	65.400	65.000	-0.110	0.0	0.0	0.0
1130	65.400	65.000	-0.110	0.0	0.0	0.0
1140	65.400	65.000	-0.110	0.0	0.0	0.0
1150	65.400	65.000	-0.110	0.0	0.0	0.0
1160	65.400	65.000	-0.110	0.0	0.0	0.0
1170	65.400	65.000	-0.110	0.0	0.0	0.0
1180	65.400	65.000	-0.110	0.0	0.0	0.0
1190	65.400	65.000	-0.110	0.0	0.0	0.0
1200	65.400	65.000	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
510	65.002	63.705	-0.108	0.0	0.4	0.1
520	65.002	63.709	-0.108	0.0	0.4	0.1
530	65.002	63.713	-0.108	0.0	0.4	0.1
540	65.002	63.717	-0.108	0.0	0.4	0.1
550	65.002	63.721	-0.108	0.0	0.4	0.1
560	65.002	63.725	-0.108	0.0	0.4	0.1
570	65.001	63.730	-0.109	0.0	0.4	0.1
580	65.001	63.735	-0.109	0.0	0.3	0.1
590	65.001	63.741	-0.109	0.0	0.3	0.1
600	65.001	63.752	-0.109	0.0	0.3	0.1
610	65.000	63.735	-0.110	0.0	0.0	0.0
620	65.000	63.727	-0.110	0.0	0.0	0.0
630	65.000	63.722	-0.110	0.0	0.0	0.0
640	65.000	63.717	-0.110	0.0	0.0	0.0
650	65.000	63.713	-0.110	0.0	0.0	0.0
660	65.000	63.710	-0.110	0.0	0.0	0.0
670	65.000	63.707	-0.110	0.0	0.0	0.0
680	65.000	63.703	-0.110	0.0	0.0	0.0
690	65.000	63.700	-0.110	0.0	0.0	0.0
700	65.000	63.697	-0.110	0.0	0.0	0.0
710	65.000	63.695	-0.110	0.0	0.0	0.0
720	65.000	63.692	-0.110	0.0	0.0	0.0
730	65.000	63.690	-0.110	0.0	0.0	0.0
740	65.000	63.687	-0.110	0.0	0.0	0.0
750	65.000	63.685	-0.110	0.0	0.0	0.0
760	65.000	63.683	-0.110	0.0	0.0	0.0
770	65.000	63.681	-0.110	0.0	0.0	0.0
780	65.000	63.679	-0.110	0.0	0.0	0.0
790	65.000	63.677	-0.110	0.0	0.0	0.0
800	65.000	63.675	-0.110	0.0	0.0	0.0
810	65.000	63.673	-0.110	0.0	0.0	0.0
820	65.000	63.671	-0.110	0.0	0.0	0.0
830	65.000	63.669	-0.110	0.0	0.0	0.0
840	65.000	63.667	-0.110	0.0	0.0	0.0
850	65.000	63.664	-0.110	0.0	0.0	0.0
860	65.000	63.663	-0.110	0.0	0.0	0.0
870	65.000	63.661	-0.110	0.0	0.0	0.0
880	65.000	63.660	-0.110	0.0	0.0	0.0
890	65.000	63.658	-0.110	0.0	0.0	0.0
900	65.000	63.656	-0.110	0.0	0.0	0.0
910	65.000	63.654	-0.110	0.0	0.0	0.0
920	65.000	63.653	-0.110	0.0	0.0	0.0
930	65.000	63.652	-0.110	0.0	0.0	0.0
940	65.000	63.650	-0.110	0.0	0.0	0.0
950	65.000	63.648	-0.110	0.0	0.0	0.0
960	65.000	63.647	-0.110	0.0	0.0	0.0
970	65.000	63.645	-0.110	0.0	0.0	0.0
980	65.000	63.644	-0.110	0.0	0.0	0.0
990	65.000	63.642	-0.110	0.0	0.0	0.0
1000	65.000	63.640	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	65.000	63.639	-0.110	0.0	0.0	0.0
1020	65.000	63.637	-0.110	0.0	0.0	0.0
1030	65.000	63.636	-0.110	0.0	0.0	0.0
1040	65.000	63.634	-0.110	0.0	0.0	0.0
1050	65.000	63.633	-0.110	0.0	0.0	0.0
1060	65.000	63.631	-0.110	0.0	0.0	0.0
1070	65.000	63.629	-0.110	0.0	0.0	0.0
1080	65.000	63.628	-0.110	0.0	0.0	0.0
1090	65.000	63.626	-0.110	0.0	0.0	0.0
1100	65.000	63.625	-0.110	0.0	0.0	0.0
1110	65.000	63.624	-0.110	0.0	0.0	0.0
1120	65.000	63.622	-0.110	0.0	0.0	0.0
1130	65.000	63.620	-0.110	0.0	0.0	0.0
1140	65.000	63.618	-0.110	0.0	0.0	0.0
1150	65.000	63.617	-0.110	0.0	0.0	0.0
1160	65.000	63.616	-0.110	0.0	0.0	0.0
1170	65.000	63.614	-0.110	0.0	0.0	0.0
1180	65.000	63.613	-0.110	0.0	0.0	0.0
1190	65.000	63.611	-0.110	0.0	0.0	0.0
1200	65.000	63.609	-0.110	0.0	0.0	0.0

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Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	63.639	63.639	0.085	0.0	0.0	0.0
1020	63.637	63.637	0.083	0.0	0.0	0.0
1030	63.636	63.636	0.082	0.0	0.0	0.0
1040	63.634	63.634	0.080	0.0	0.0	0.0
1050	63.633	63.633	0.078	0.0	0.0	0.0
1060	63.631	63.631	0.077	0.0	0.0	0.0
1070	63.629	63.630	0.075	0.0	0.0	0.0
1080	63.628	63.628	0.074	0.0	0.0	0.0
1090	63.626	63.627	0.072	0.0	0.0	0.0
1100	63.625	63.625	0.071	0.0	0.0	0.0
1110	63.624	63.623	0.069	0.0	0.0	0.0
1120	63.622	63.622	0.068	0.0	0.0	0.0
1130	63.620	63.620	0.066	0.0	0.0	0.0
1140	63.618	63.619	0.064	0.0	0.0	0.0
1150	63.617	63.617	0.063	0.0	0.0	0.0
1160	63.616	63.616	0.062	0.0	0.0	0.0
1170	63.614	63.614	0.060	0.0	0.0	0.0
1180	63.613	63.613	0.058	0.0	0.0	0.0
1190	63.611	63.611	0.057	0.0	0.0	0.0
1200	63.609	63.610	0.055	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
10	63.253	63.100	-0.107	0.0	0.0	0.0
20	63.256	63.101	-0.104	0.0	0.0	0.0
30	63.259	63.102	-0.101	0.0	0.0	0.0
40	63.261	63.105	-0.099	0.0	0.1	0.0
50	63.264	63.109	-0.096	0.0	0.1	0.0
60	63.267	63.114	-0.093	0.0	0.2	0.0
70	63.270	63.120	-0.090	0.0	0.2	0.1
80	63.272	63.126	-0.088	0.0	0.2	0.1
90	63.275	63.133	-0.085	0.0	0.2	0.1
100	63.277	63.140	-0.083	0.0	0.3	0.1
110	63.280	63.147	-0.080	0.0	0.3	0.1
120	63.282	63.153	-0.078	0.0	0.3	0.1
130	63.285	63.160	-0.075	0.0	0.3	0.1
140	63.288	63.169	-0.072	0.0	0.3	0.1
150	63.290	63.178	-0.070	0.0	0.3	0.1
160	63.294	63.189	-0.066	0.0	0.3	0.1
170	63.297	63.201	-0.063	0.0	0.3	0.1
180	63.301	63.213	-0.059	0.0	0.3	0.1
190	63.305	63.226	-0.055	0.0	0.3	0.1
200	63.310	63.239	-0.050	0.0	0.3	0.1
210	63.316	63.251	-0.044	0.0	0.3	0.1
220	63.325	63.253	-0.035	0.0	0.2	0.1
230	63.335	63.255	-0.025	0.0	0.3	0.1
240	63.347	63.260	-0.013	0.0	0.3	0.1
250	63.362	63.265	0.002	0.0	0.3	0.1
260	63.381	63.262	0.021	0.0	0.2	0.1
270	63.405	63.265	0.045	0.0	0.3	0.1
280	63.430	63.274	0.070	0.0	0.3	0.1
290	63.459	63.292	0.099	0.0	0.3	0.2
300	63.492	63.316	0.132	0.0	0.3	0.2
310	63.526	63.348	0.166	0.0	0.4	0.2
320	63.553	63.381	0.193	0.0	0.4	0.2
330	63.577	63.412	0.217	0.0	0.3	0.2
340	63.596	63.441	0.236	0.0	0.1	0.2
350	63.612	63.467	0.252	0.0	0.0	0.2
360	63.626	63.490	0.266	0.0	0.0	0.2
370	63.637	63.511	0.277	0.0	0.0	0.2
380	63.645	63.530	0.285	0.0	0.0	0.2
390	63.652	63.546	0.292	0.0	0.0	0.2
400	63.658	63.560	0.298	0.0	0.0	0.2
410	63.663	63.571	0.303	0.0	0.0	0.1
420	63.668	63.581	0.308	0.0	0.0	0.1
430	63.673	63.590	0.313	0.0	0.0	0.1
440	63.677	63.597	0.317	0.0	0.0	0.1
450	63.681	63.604	0.321	0.0	0.0	0.1
460	63.685	63.610	0.325	0.0	0.0	0.1
470	63.689	63.614	0.329	0.0	0.0	0.1
480	63.693	63.619	0.333	0.0	0.0	0.1
490	63.697	63.624	0.337	0.0	0.0	0.1
500	63.701	63.628	0.341	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
510	63.705	63.633	0.345	0.0	0.0	0.1
520	63.708	63.637	0.348	0.0	0.0	0.1
530	63.712	63.641	0.352	0.0	0.0	0.1
540	63.716	63.644	0.356	0.0	0.0	0.1
550	63.720	63.648	0.360	0.0	0.0	0.1
560	63.724	63.652	0.364	0.0	0.0	0.1
570	63.729	63.656	0.369	0.0	0.0	0.1
580	63.734	63.660	0.374	0.0	0.0	0.1
590	63.740	63.665	0.380	0.0	0.0	0.1
600	63.752	63.670	0.392	0.0	0.0	0.1
610	63.735	63.674	0.375	0.0	0.0	0.1
620	63.727	63.673	0.367	0.0	0.0	0.1
630	63.722	63.671	0.362	0.0	0.0	0.1
640	63.717	63.668	0.357	0.0	0.0	0.1
650	63.713	63.665	0.353	0.0	0.0	0.1
660	63.710	63.662	0.350	0.0	0.0	0.1
670	63.706	63.658	0.346	0.0	0.0	0.1
680	63.703	63.655	0.343	0.0	0.0	0.1
690	63.700	63.652	0.340	0.0	0.0	0.1
700	63.698	63.649	0.338	0.0	0.0	0.1
710	63.695	63.646	0.335	0.0	0.0	0.1
720	63.692	63.643	0.332	0.0	0.0	0.1
730	63.690	63.640	0.330	0.0	0.0	0.1
740	63.687	63.638	0.327	0.0	0.0	0.1
750	63.685	63.635	0.325	0.0	0.0	0.1
760	63.683	63.633	0.323	0.0	0.0	0.1
770	63.681	63.630	0.321	0.0	0.0	0.1
780	63.679	63.629	0.319	0.0	0.0	0.1
790	63.677	63.626	0.317	0.0	0.0	0.1
800	63.675	63.624	0.315	0.0	0.0	0.1
810	63.673	63.622	0.313	0.0	0.0	0.1
820	63.671	63.620	0.311	0.0	0.0	0.1
830	63.669	63.618	0.309	0.0	0.0	0.1
840	63.667	63.616	0.307	0.0	0.0	0.1
850	63.665	63.614	0.305	0.0	0.0	0.1
860	63.663	63.612	0.303	0.0	0.0	0.1
870	63.662	63.610	0.302	0.0	0.0	0.1
880	63.660	63.609	0.300	0.0	0.0	0.1
890	63.658	63.607	0.298	0.0	0.0	0.1
900	63.656	63.605	0.296	0.0	0.0	0.1
910	63.655	63.603	0.295	0.0	0.0	0.1
920	63.653	63.602	0.293	0.0	0.0	0.1
930	63.652	63.600	0.292	0.0	0.0	0.1
940	63.650	63.599	0.290	0.0	0.0	0.1
950	63.648	63.597	0.288	0.0	0.0	0.1
960	63.647	63.595	0.287	0.0	0.0	0.1
970	63.645	63.594	0.285	0.0	0.0	0.1
980	63.644	63.592	0.284	0.0	0.0	0.1
990	63.642	63.591	0.282	0.0	0.0	0.1
1000	63.641	63.589	0.281	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
1010	63.639	63.588	0.279	0.0	0.0	0.1
1020	63.637	63.586	0.277	0.0	0.0	0.1
1030	63.636	63.585	0.276	0.0	0.0	0.1
1040	63.634	63.583	0.274	0.0	0.0	0.1
1050	63.633	63.582	0.273	0.0	0.0	0.1
1060	63.631	63.580	0.271	0.0	0.0	0.1
1070	63.630	63.579	0.270	0.0	0.0	0.1
1080	63.628	63.577	0.268	0.0	0.0	0.1
1090	63.627	63.576	0.267	0.0	0.0	0.1
1100	63.625	63.574	0.265	0.0	0.0	0.1
1110	63.623	63.573	0.263	0.0	0.0	0.1
1120	63.622	63.571	0.262	0.0	0.0	0.1
1130	63.620	63.570	0.260	0.0	0.0	0.1
1140	63.619	63.568	0.259	0.0	0.0	0.1
1150	63.617	63.567	0.257	0.0	0.0	0.1
1160	63.616	63.565	0.256	0.0	0.0	0.1
1170	63.614	63.564	0.254	0.0	0.0	0.1
1180	63.613	63.562	0.253	0.0	0.0	0.1
1190	63.611	63.561	0.251	0.0	0.0	0.1
1200	63.610	63.559	0.250	0.0	0.0	0.1

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
10	63.100	63.096	-0.110	0.0	0.0	0.0
20	63.101	63.096	-0.109	0.0	0.0	0.0
30	63.102	63.096	-0.108	0.0	0.0	0.0
40	63.105	63.096	-0.105	0.0	0.0	0.0
50	63.109	63.096	-0.101	0.0	0.0	0.0
60	63.114	63.096	-0.096	0.0	0.0	0.0
70	63.120	63.096	-0.090	0.0	0.0	0.0
80	63.126	63.096	-0.084	0.0	0.0	0.0
90	63.133	63.096	-0.077	0.0	0.0	0.0
100	63.140	63.096	-0.070	0.0	0.0	0.0
110	63.147	63.096	-0.063	0.0	0.0	0.0
120	63.153	63.096	-0.057	0.0	0.0	0.0
130	63.160	63.096	-0.050	0.0	0.0	0.0
140	63.169	63.096	-0.041	0.0	0.0	0.0
150	63.178	63.096	-0.032	0.0	0.0	0.0
160	63.189	63.096	-0.021	0.0	0.0	0.0
170	63.201	63.096	-0.009	0.0	0.0	0.0
180	63.213	63.096	0.003	0.0	0.0	0.0
190	63.226	63.096	0.016	0.0	0.0	0.0
200	63.239	63.096	0.029	0.0	0.0	0.0
210	63.251	63.096	0.041	0.0	0.0	0.0
220	63.253	63.096	0.043	0.0	0.0	0.0
230	63.255	63.096	0.045	0.0	0.0	0.0
240	63.260	63.096	0.050	0.0	0.0	0.0
250	63.265	63.096	0.055	0.0	0.0	0.0
260	63.262	63.096	0.052	0.0	0.0	0.0
270	63.265	63.096	0.055	0.0	0.0	0.0
280	63.274	63.096	0.064	0.0	0.0	0.0
290	63.292	63.096	0.082	0.0	0.0	0.0
300	63.316	63.096	0.106	0.0	0.0	0.0
310	63.348	63.096	0.138	0.0	0.1	0.0
320	63.381	63.096	0.171	0.0	0.1	0.0
330	63.412	63.096	0.202	0.0	0.1	0.0
340	63.441	63.096	0.231	0.0	0.1	0.0
350	63.467	63.096	0.257	0.0	0.1	0.0
360	63.490	63.096	0.280	0.0	0.1	0.0
370	63.511	63.096	0.301	0.0	0.1	0.0
380	63.530	63.096	0.320	0.0	0.1	0.0
390	63.546	63.096	0.336	0.0	0.1	0.0
400	63.560	63.096	0.350	0.0	0.1	0.0
410	63.571	63.096	0.361	0.0	0.1	0.0
420	63.581	63.096	0.371	0.0	0.1	0.0
430	63.590	63.096	0.380	0.0	0.1	0.0
440	63.597	63.096	0.387	0.0	0.1	0.0
450	63.604	63.096	0.394	0.0	0.1	0.0
460	63.610	63.096	0.400	0.0	0.1	0.0
470	63.614	63.096	0.404	0.0	0.1	0.0
480	63.619	63.096	0.409	0.0	0.1	0.0
490	63.624	63.096	0.414	0.0	0.1	0.0
500	63.628	63.096	0.418	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
600 minute 100 year Summer
Average Rainfall Intensity 7.504 mm/hr

Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
510	63.633	63.096	0.423	0.0	0.1	0.0
520	63.637	63.096	0.427	0.0	0.1	0.0
530	63.641	63.096	0.431	0.0	0.1	0.0
540	63.644	63.096	0.434	0.0	0.1	0.0
550	63.648	63.096	0.438	0.0	0.1	0.0
560	63.652	63.096	0.442	0.0	0.1	0.0
570	63.656	63.096	0.446	0.0	0.1	0.0
580	63.660	63.096	0.450	0.0	0.1	0.0
590	63.665	63.096	0.455	0.0	0.1	0.0
600	63.670	63.096	0.460	0.0	0.1	0.0
610	63.674	63.096	0.464	0.0	0.1	0.0
620	63.673	63.096	0.463	0.0	0.1	0.0
630	63.671	63.096	0.461	0.0	0.1	0.0
640	63.668	63.096	0.458	0.0	0.1	0.0
650	63.665	63.096	0.455	0.0	0.1	0.0
660	63.662	63.096	0.452	0.0	0.1	0.0
670	63.658	63.096	0.448	0.0	0.1	0.0
680	63.655	63.096	0.445	0.0	0.1	0.0
690	63.652	63.096	0.442	0.0	0.1	0.0
700	63.649	63.096	0.439	0.0	0.1	0.0
710	63.646	63.096	0.436	0.0	0.1	0.0
720	63.643	63.096	0.433	0.0	0.1	0.0
730	63.640	63.096	0.430	0.0	0.1	0.0
740	63.638	63.096	0.428	0.0	0.1	0.0
750	63.635	63.096	0.425	0.0	0.1	0.0
760	63.633	63.096	0.423	0.0	0.1	0.0
770	63.630	63.096	0.420	0.0	0.1	0.0
780	63.629	63.096	0.419	0.0	0.1	0.0
790	63.626	63.096	0.416	0.0	0.1	0.0
800	63.624	63.096	0.414	0.0	0.1	0.0
810	63.622	63.096	0.412	0.0	0.1	0.0
820	63.620	63.096	0.410	0.0	0.1	0.0
830	63.618	63.096	0.408	0.0	0.1	0.0
840	63.616	63.096	0.406	0.0	0.1	0.0
850	63.614	63.096	0.404	0.0	0.1	0.0
860	63.612	63.096	0.402	0.0	0.1	0.0
870	63.610	63.096	0.400	0.0	0.1	0.0
880	63.609	63.096	0.399	0.0	0.1	0.0
890	63.607	63.096	0.397	0.0	0.1	0.0
900	63.605	63.096	0.395	0.0	0.1	0.0
910	63.603	63.096	0.393	0.0	0.1	0.0
920	63.602	63.096	0.392	0.0	0.1	0.0
930	63.600	63.096	0.390	0.0	0.1	0.0
940	63.599	63.096	0.389	0.0	0.1	0.0
950	63.597	63.096	0.387	0.0	0.1	0.0
960	63.595	63.096	0.385	0.0	0.1	0.0
970	63.594	63.096	0.384	0.0	0.1	0.0
980	63.592	63.096	0.382	0.0	0.1	0.0
990	63.591	63.096	0.381	0.0	0.1	0.0
1000	63.589	63.096	0.379	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
600 minute 100 year Summer
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Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total (l/s)	O/F Velocity (m/s)	Pipe Flow (l/s)
1010	63.588	63.096	0.378	0.0	0.1	0.0
1020	63.586	63.096	0.376	0.0	0.1	0.0
1030	63.585	63.096	0.375	0.0	0.1	0.0
1040	63.583	63.096	0.373	0.0	0.1	0.0
1050	63.582	63.096	0.372	0.0	0.1	0.0
1060	63.580	63.096	0.370	0.0	0.1	0.0
1070	63.579	63.096	0.369	0.0	0.1	0.0
1080	63.577	63.096	0.367	0.0	0.1	0.0
1090	63.576	63.096	0.366	0.0	0.1	0.0
1100	63.574	63.096	0.364	0.0	0.1	0.0
1110	63.573	63.096	0.363	0.0	0.1	0.0
1120	63.571	63.096	0.361	0.0	0.1	0.0
1130	63.570	63.096	0.360	0.0	0.1	0.0
1140	63.568	63.096	0.358	0.0	0.1	0.0
1150	63.567	63.096	0.357	0.0	0.1	0.0
1160	63.565	63.096	0.355	0.0	0.1	0.0
1170	63.564	63.096	0.354	0.0	0.1	0.0
1180	63.562	63.096	0.352	0.0	0.1	0.0
1190	63.561	63.096	0.351	0.0	0.1	0.0
1200	63.559	63.096	0.349	0.0	0.1	0.0