

Dixon Hurst Kemp		Page 1
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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Elstree Computing Ltd	Network W.12.6	

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)	1440
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	12

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	Winter
Return Period (years)	100	Cv (Summer)	1.000
Region	England and Wales	Cv (Winter)	1.000
M5-60 (mm)	20.000	Storm Duration (mins)	720
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 720 minute 100 year Winter (Storm)

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

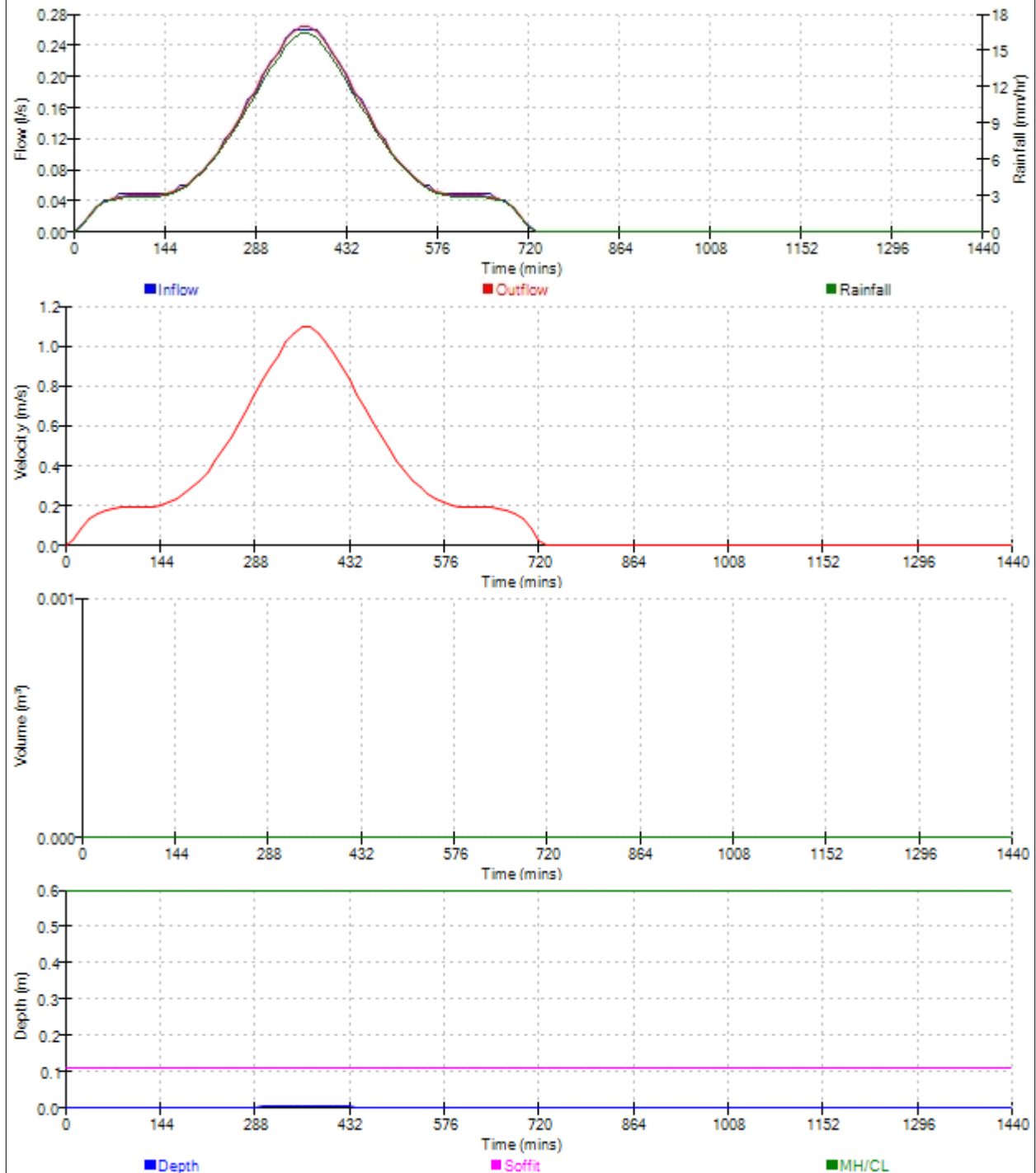
PN	US/MH Name	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status
1.000	RE1	65.405	-0.105	0.000	0.01	0.0	0.3	OK
1.001	S1	63.812	0.208	0.000	0.08	0.0	0.5	SURCHARGED
2.000	RE2	65.407	-0.103	0.000	0.01	0.0	0.3	OK
2.001	S2	65.009	-0.101	0.000	0.02	0.0	0.5	OK
1.002	S3	63.812	0.258	0.000	0.15	0.0	1.0	SURCHARGED
1.003	S4	63.811	0.451	0.000	0.04	0.0	0.2	SURCHARGED
1.004	RAIN GARDEN	63.700	0.490	0.190	0.01	0.0	0.0	FLOOD

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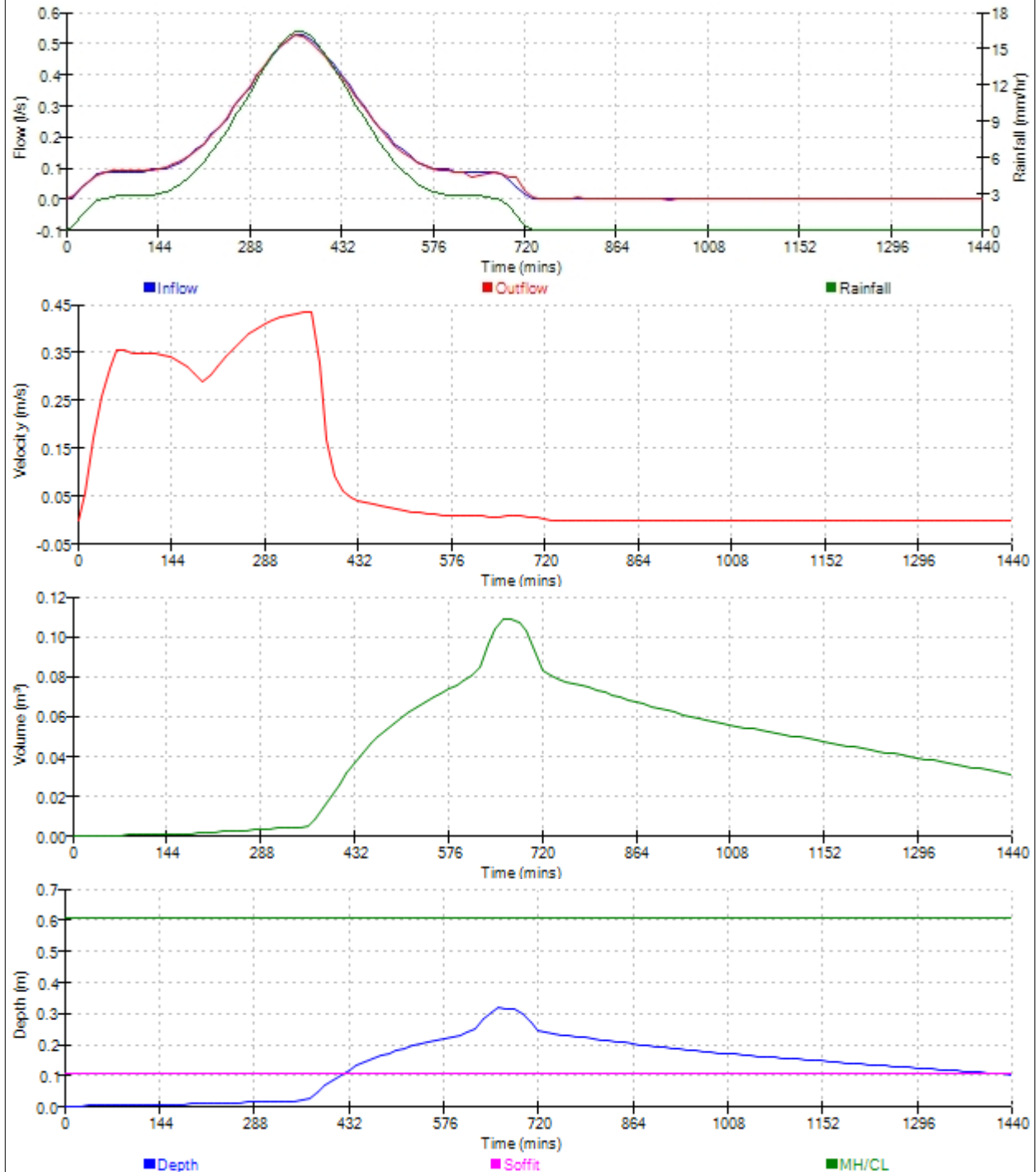
Rainfall Hyetograph for 720 minute 100 year winter (Storm)

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)
12	0.464	156	3.241	300	12.513	444	11.356	588	3.048
24	1.334	168	3.503	312	13.498	456	10.319	600	2.954
36	1.973	180	3.850	324	14.416	468	9.297	612	2.909
48	2.445	192	4.361	336	15.318	480	8.194	624	2.903
60	2.695	204	4.924	348	15.957	492	7.277	636	2.909
72	2.838	216	5.578	360	16.418	504	6.429	648	2.901
84	2.901	228	6.429	372	16.418	516	5.578	660	2.838
96	2.909	240	7.277	384	15.957	528	4.924	672	2.695
108	2.903	252	8.194	396	15.318	540	4.361	684	2.445
120	2.909	264	9.297	408	14.416	552	3.850	696	1.973
132	2.954	276	10.319	420	13.498	564	3.503	708	1.334
144	3.048	288	11.356	432	12.513	576	3.241	720	0.464

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

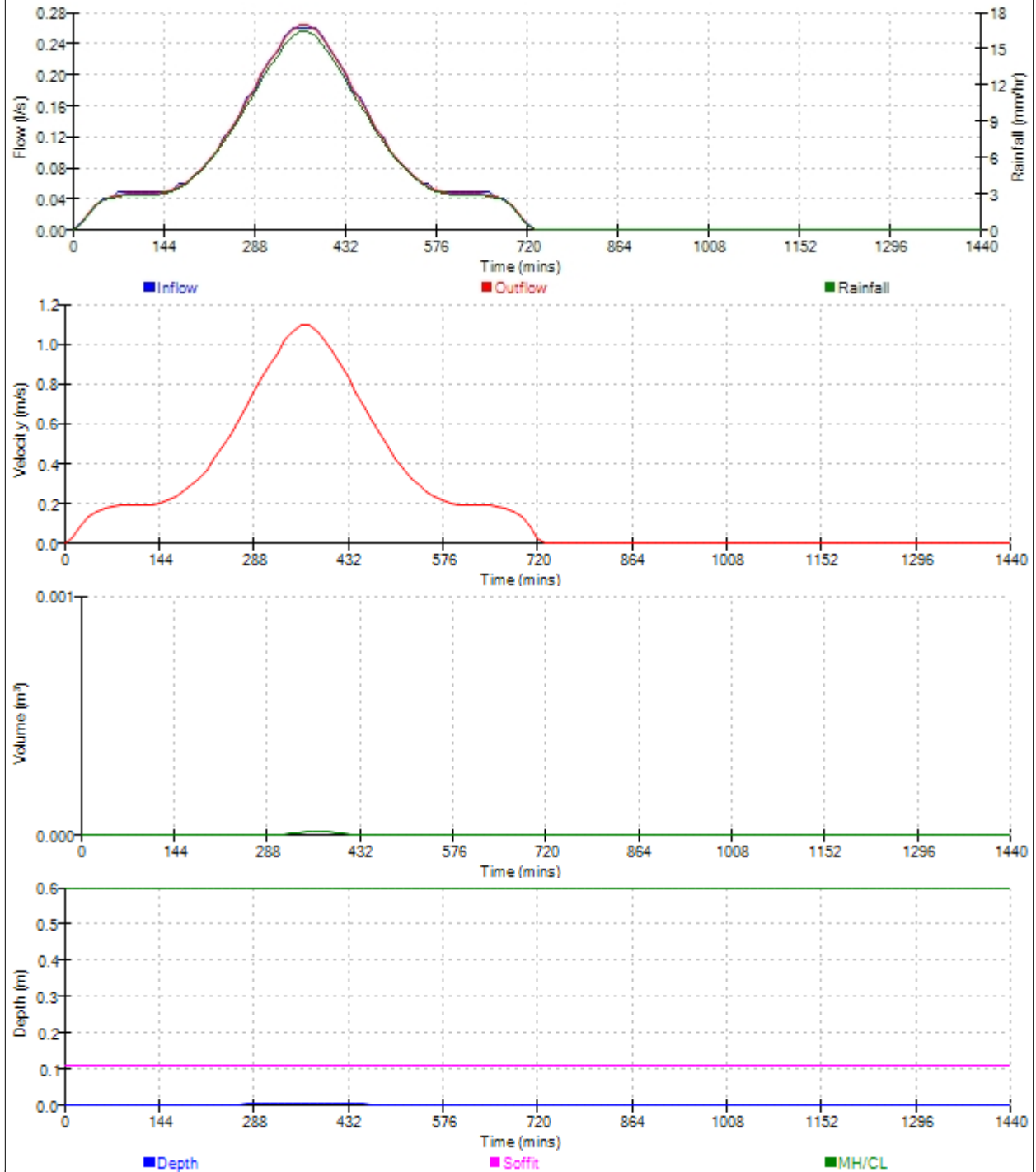


Graphs for Pipe 1.001 US/MH S1 (Storm)
720 minute 100 year winter
Status: SURCHARGED



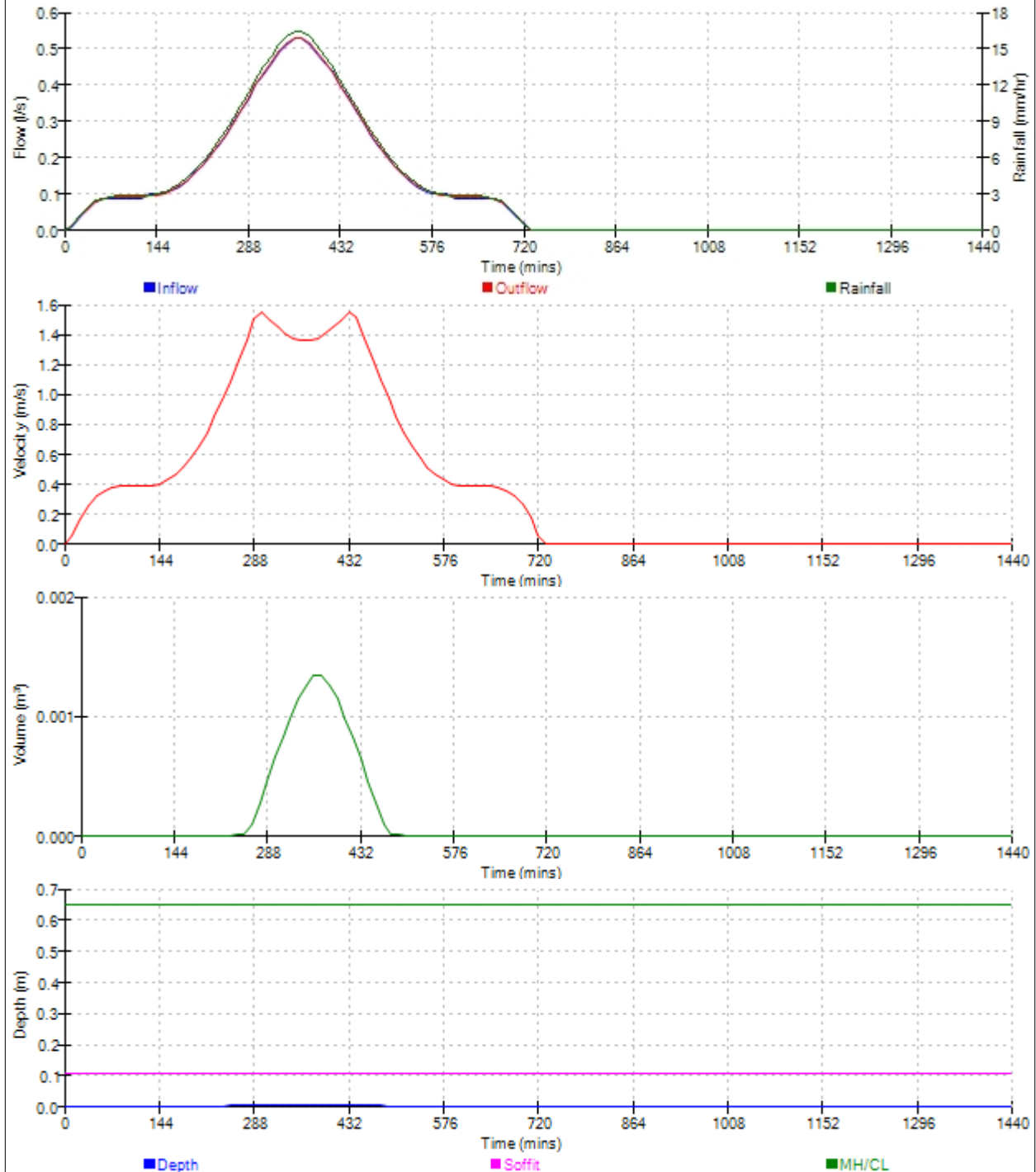
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Graphs for Pipe 2.000 US/MH RE2 (Storm)
720 minute 100 year winter
Status: OK

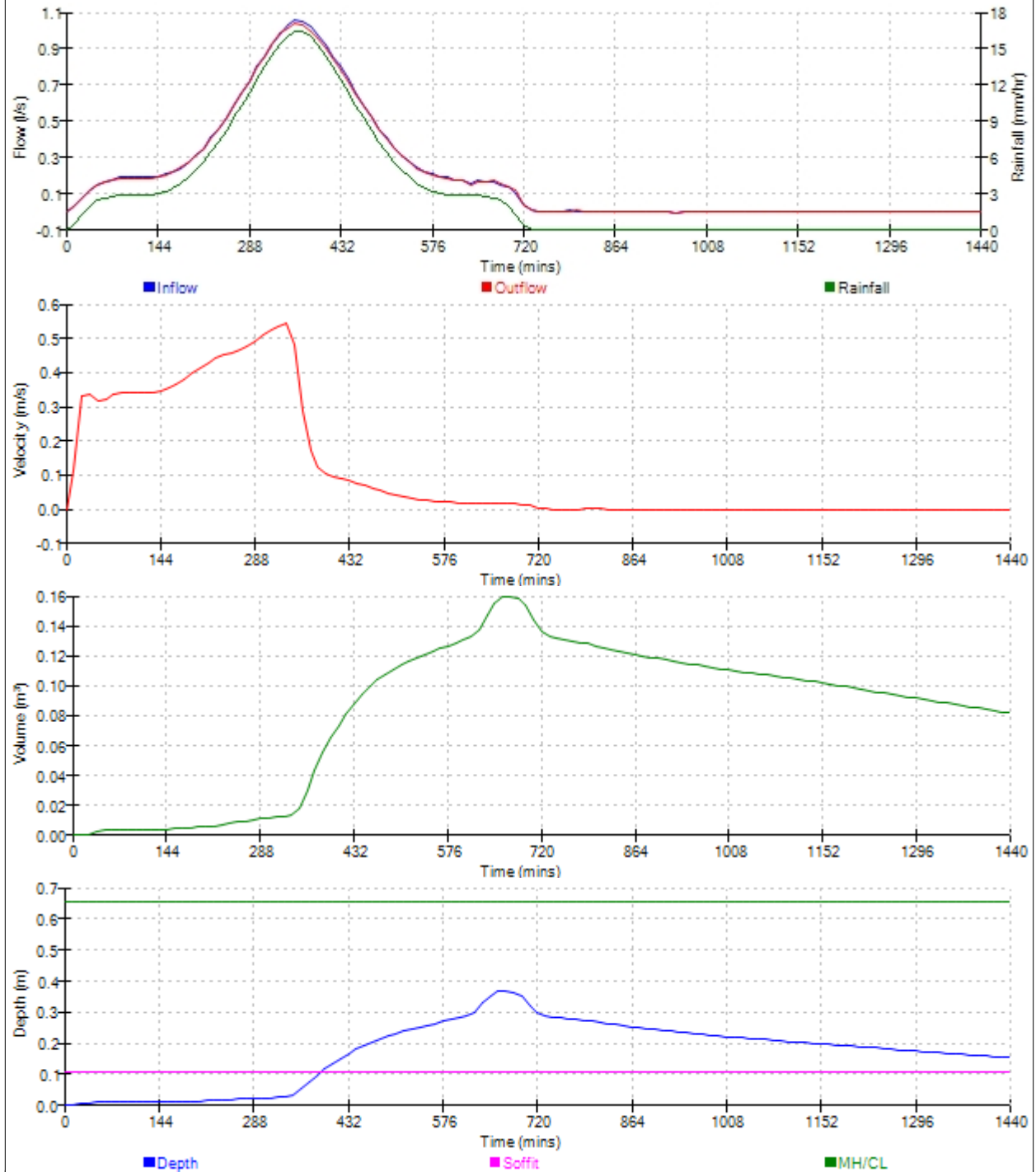


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Graphs for Pipe 2.001 US/MH S2 (Storm)
720 minute 100 year winter
Status: OK

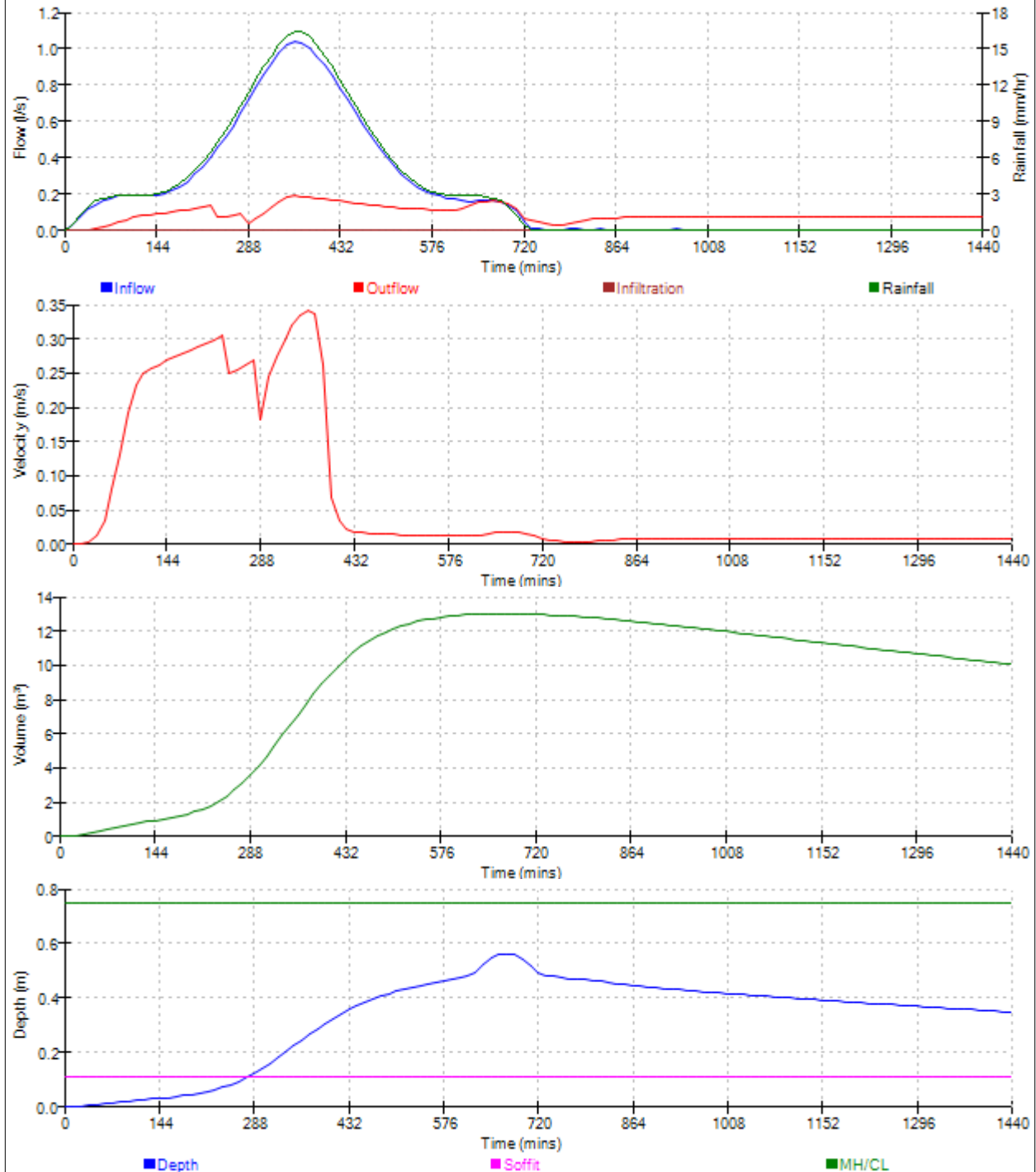


Graphs for Pipe 1.002 US/MH S3 (Storm)
720 minute 100 year winter
Status: SURCHARGED

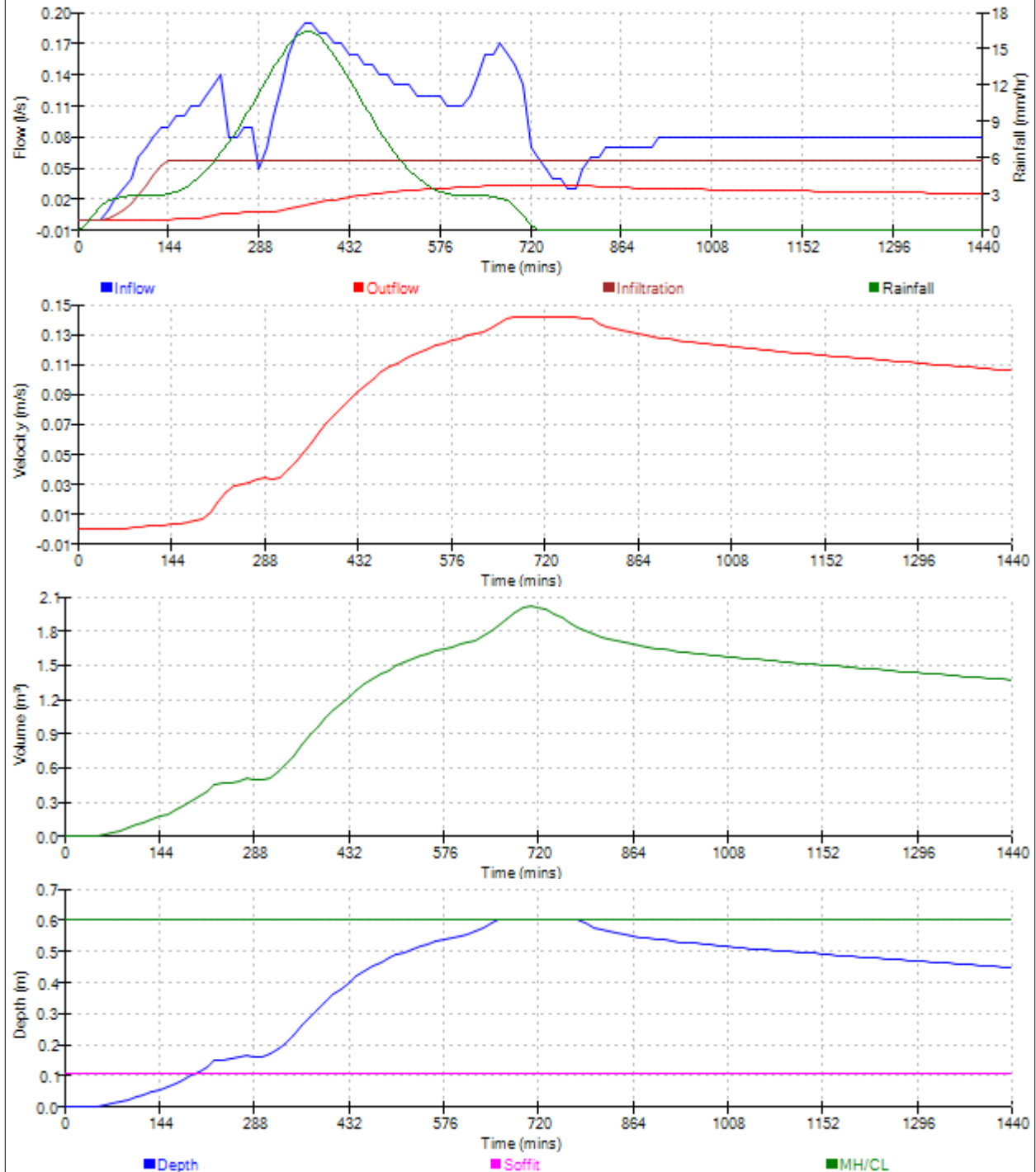


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Graphs for Pipe 1.003 US/MH S4 (Storm)
720 minute 100 year winter
Status: SURCHARGED



Graphs for Pipe 1.004 US/MH RAIN GARDEN (Storm)
720 minute 100 year Winter
Status: FLOOD



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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
720 minute 100 year winter
Average Rainfall Intensity 6.527 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)
12	65.400	63.495	-0.110	0.0	0.0	0.0
24	65.400	63.497	-0.110	0.0	0.1	0.0
36	65.401	63.499	-0.109	0.0	0.1	0.0
48	65.401	63.500	-0.109	0.0	0.2	0.0
60	65.401	63.501	-0.109	0.0	0.2	0.0
72	65.401	63.501	-0.109	0.0	0.2	0.0
84	65.401	63.501	-0.109	0.0	0.2	0.0
96	65.401	63.501	-0.109	0.0	0.2	0.0
108	65.401	63.501	-0.109	0.0	0.2	0.0
120	65.401	63.501	-0.109	0.0	0.2	0.0
132	65.401	63.502	-0.109	0.0	0.2	0.0
144	65.401	63.502	-0.109	0.0	0.2	0.0
156	65.401	63.502	-0.109	0.0	0.2	0.1
168	65.401	63.503	-0.109	0.0	0.2	0.1
180	65.401	63.504	-0.109	0.0	0.3	0.1
192	65.401	63.505	-0.109	0.0	0.3	0.1
204	65.402	63.506	-0.108	0.0	0.3	0.1
216	65.402	63.506	-0.108	0.0	0.4	0.1
228	65.402	63.507	-0.108	0.0	0.4	0.1
240	65.402	63.507	-0.108	0.0	0.5	0.1
252	65.403	63.508	-0.107	0.0	0.5	0.1
264	65.403	63.509	-0.107	0.0	0.6	0.1
276	65.403	63.510	-0.107	0.0	0.7	0.2
288	65.404	63.511	-0.106	0.0	0.8	0.2
300	65.404	63.511	-0.106	0.0	0.8	0.2
312	65.404	63.512	-0.106	0.0	0.9	0.2
324	65.405	63.513	-0.105	0.0	1.0	0.2
336	65.405	63.514	-0.105	0.0	1.0	0.2
348	65.405	63.514	-0.105	0.0	1.1	0.3
360	65.405	63.515	-0.105	0.0	1.1	0.3
372	65.405	63.525	-0.105	0.0	1.1	0.3
384	65.405	63.544	-0.105	0.0	1.1	0.3
396	65.405	63.563	-0.105	0.0	1.0	0.2
408	65.405	63.581	-0.105	0.0	1.0	0.2
420	65.404	63.598	-0.106	0.0	0.9	0.2
432	65.404	63.613	-0.106	0.0	0.8	0.2
444	65.404	63.627	-0.106	0.0	0.8	0.2
456	65.403	63.639	-0.107	0.0	0.7	0.2
468	65.403	63.650	-0.107	0.0	0.6	0.1
480	65.403	63.659	-0.107	0.0	0.5	0.1
492	65.402	63.668	-0.108	0.0	0.5	0.1
504	65.402	63.677	-0.108	0.0	0.4	0.1
516	65.402	63.684	-0.108	0.0	0.4	0.1
528	65.402	63.691	-0.108	0.0	0.3	0.1
540	65.401	63.698	-0.109	0.0	0.3	0.1
552	65.401	63.703	-0.109	0.0	0.3	0.1
564	65.401	63.709	-0.109	0.0	0.2	0.1
576	65.401	63.715	-0.109	0.0	0.2	0.1
588	65.401	63.720	-0.109	0.0	0.2	0.0
600	65.401	63.726	-0.109	0.0	0.2	0.0

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
720 minute 100 year winter
Average Rainfall Intensity 6.527 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)
1212	65.400	63.632	-0.110	0.0	0.0	0.0
1224	65.400	63.631	-0.110	0.0	0.0	0.0
1236	65.400	63.629	-0.110	0.0	0.0	0.0
1248	65.400	63.627	-0.110	0.0	0.0	0.0
1260	65.400	63.626	-0.110	0.0	0.0	0.0
1272	65.400	63.623	-0.110	0.0	0.0	0.0
1284	65.400	63.622	-0.110	0.0	0.0	0.0
1296	65.400	63.619	-0.110	0.0	0.0	0.0
1308	65.400	63.618	-0.110	0.0	0.0	0.0
1320	65.400	63.616	-0.110	0.0	0.0	0.0
1332	65.400	63.614	-0.110	0.0	0.0	0.0
1344	65.400	63.612	-0.110	0.0	0.0	0.0
1356	65.400	63.611	-0.110	0.0	0.0	0.0
1368	65.400	63.609	-0.110	0.0	0.0	0.0
1380	65.400	63.607	-0.110	0.0	0.0	0.0
1392	65.400	63.605	-0.110	0.0	0.0	0.0
1404	65.400	63.603	-0.110	0.0	0.0	0.0
1416	65.400	63.602	-0.110	0.0	0.0	0.0
1428	65.400	63.600	-0.110	0.0	0.0	0.0
1440	65.400	63.597	-0.110	0.0	0.0	0.0

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Time (mins)	Upstream Level (m)	Downstream Level (m)	Surcharged Depth (m)	Total O/F (l/s)	Velocity (m/s)	Pipe Flow (l/s)
12	63.495	63.446	-0.109	0.0	0.1	0.0
24	63.497	63.450	-0.107	0.0	0.2	0.0
36	63.499	63.453	-0.105	0.0	0.3	0.1
48	63.500	63.455	-0.104	0.0	0.3	0.1
60	63.501	63.456	-0.103	0.0	0.4	0.1
72	63.501	63.456	-0.103	0.0	0.4	0.1
84	63.501	63.456	-0.103	0.0	0.3	0.1
96	63.501	63.456	-0.103	0.0	0.3	0.1
108	63.501	63.456	-0.103	0.0	0.3	0.1
120	63.501	63.456	-0.103	0.0	0.3	0.1
132	63.502	63.456	-0.103	0.0	0.3	0.1
144	63.502	63.456	-0.102	0.0	0.3	0.1
156	63.502	63.456	-0.102	0.0	0.3	0.1
168	63.503	63.457	-0.101	0.0	0.3	0.1
180	63.504	63.457	-0.100	0.0	0.3	0.1
192	63.505	63.458	-0.099	0.0	0.3	0.1
204	63.506	63.459	-0.099	0.0	0.3	0.2
216	63.506	63.460	-0.098	0.0	0.3	0.2
228	63.507	63.461	-0.097	0.0	0.3	0.2
240	63.507	63.462	-0.097	0.0	0.4	0.2
252	63.508	63.464	-0.096	0.0	0.4	0.3
264	63.509	63.465	-0.095	0.0	0.4	0.3
276	63.510	63.467	-0.094	0.0	0.4	0.3
288	63.511	63.468	-0.094	0.0	0.4	0.4
300	63.511	63.469	-0.093	0.0	0.4	0.4
312	63.512	63.469	-0.092	0.0	0.4	0.4
324	63.513	63.470	-0.091	0.0	0.4	0.5
336	63.514	63.471	-0.090	0.0	0.4	0.5
348	63.514	63.480	-0.090	0.0	0.4	0.5
360	63.515	63.500	-0.089	0.0	0.4	0.5
372	63.525	63.521	-0.079	0.0	0.3	0.5
384	63.544	63.542	-0.060	0.0	0.2	0.5
396	63.563	63.561	-0.041	0.0	0.1	0.5
408	63.581	63.579	-0.023	0.0	0.1	0.5
420	63.598	63.596	-0.006	0.0	0.0	0.4
432	63.613	63.612	0.009	0.0	0.0	0.4
444	63.627	63.626	0.023	0.0	0.0	0.4
456	63.639	63.638	0.035	0.0	0.0	0.3
468	63.650	63.649	0.046	0.0	0.0	0.3
480	63.659	63.658	0.055	0.0	0.0	0.3
492	63.668	63.667	0.064	0.0	0.0	0.2
504	63.677	63.676	0.073	0.0	0.0	0.2
516	63.684	63.683	0.080	0.0	0.0	0.2
528	63.691	63.690	0.087	0.0	0.0	0.2
540	63.698	63.697	0.093	0.0	0.0	0.1
552	63.703	63.703	0.099	0.0	0.0	0.1
564	63.709	63.709	0.105	0.0	0.0	0.1
576	63.715	63.714	0.110	0.0	0.0	0.1
588	63.720	63.720	0.116	0.0	0.0	0.1
600	63.726	63.726	0.122	0.0	0.0	0.1

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
720 minute 100 year winter
Average Rainfall Intensity 6.527 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)
612	63.734	63.733	0.129	0.0	0.0	0.1
624	63.744	63.744	0.140	0.0	0.0	0.1
636	63.777	63.777	0.173	0.0	0.0	0.1
648	63.798	63.797	0.194	0.0	0.0	0.1
660	63.812	63.812	0.208	0.0	0.0	0.1
672	63.811	63.811	0.207	0.0	0.0	0.1
684	63.808	63.808	0.204	0.0	0.0	0.1
696	63.795	63.795	0.191	0.0	0.0	0.1
708	63.768	63.767	0.164	0.0	0.0	0.1
720	63.741	63.741	0.137	0.0	0.0	0.0
732	63.733	63.733	0.129	0.0	0.0	0.0
744	63.728	63.729	0.124	0.0	0.0	0.0
756	63.725	63.725	0.121	0.0	0.0	0.0
768	63.722	63.722	0.118	0.0	0.0	0.0
780	63.719	63.719	0.115	0.0	0.0	0.0
792	63.718	63.718	0.114	0.0	0.0	0.0
804	63.714	63.714	0.110	0.0	0.0	0.0
816	63.711	63.711	0.107	0.0	0.0	0.0
828	63.707	63.708	0.103	0.0	0.0	0.0
840	63.704	63.704	0.100	0.0	0.0	0.0
852	63.700	63.701	0.096	0.0	0.0	0.0
864	63.697	63.697	0.093	0.0	0.0	0.0
876	63.694	63.694	0.090	0.0	0.0	0.0
888	63.691	63.691	0.087	0.0	0.0	0.0
900	63.688	63.688	0.084	0.0	0.0	0.0
912	63.685	63.685	0.081	0.0	0.0	0.0
924	63.683	63.683	0.079	0.0	0.0	0.0
936	63.680	63.680	0.076	0.0	0.0	0.0
948	63.677	63.678	0.073	0.0	0.0	0.0
960	63.675	63.675	0.071	0.0	0.0	0.0
972	63.673	63.673	0.069	0.0	0.0	0.0
984	63.670	63.671	0.066	0.0	0.0	0.0
996	63.668	63.668	0.064	0.0	0.0	0.0
1008	63.666	63.666	0.062	0.0	0.0	0.0
1020	63.664	63.664	0.060	0.0	0.0	0.0
1032	63.662	63.662	0.058	0.0	0.0	0.0
1044	63.660	63.660	0.056	0.0	0.0	0.0
1056	63.658	63.658	0.054	0.0	0.0	0.0
1068	63.656	63.656	0.051	0.0	0.0	0.0
1080	63.654	63.654	0.050	0.0	0.0	0.0
1092	63.652	63.652	0.048	0.0	0.0	0.0
1104	63.650	63.650	0.046	0.0	0.0	0.0
1116	63.648	63.648	0.044	0.0	0.0	0.0
1128	63.646	63.646	0.042	0.0	0.0	0.0
1140	63.644	63.644	0.040	0.0	0.0	0.0
1152	63.642	63.642	0.038	0.0	0.0	0.0
1164	63.640	63.640	0.036	0.0	0.0	0.0
1176	63.638	63.639	0.034	0.0	0.0	0.0
1188	63.636	63.637	0.032	0.0	0.0	0.0
1200	63.635	63.635	0.031	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
720 minute 100 year winter
Average Rainfall Intensity 6.527 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)
1212	63.632	63.633	0.028	0.0	0.0	0.0
1224	63.631	63.631	0.027	0.0	0.0	0.0
1236	63.629	63.629	0.025	0.0	0.0	0.0
1248	63.627	63.627	0.023	0.0	0.0	0.0
1260	63.626	63.626	0.021	0.0	0.0	0.0
1272	63.623	63.624	0.019	0.0	0.0	0.0
1284	63.622	63.622	0.018	0.0	0.0	0.0
1296	63.619	63.620	0.015	0.0	0.0	0.0
1308	63.618	63.618	0.014	0.0	0.0	0.0
1320	63.616	63.616	0.012	0.0	0.0	0.0
1332	63.614	63.614	0.010	0.0	0.0	0.0
1344	63.612	63.613	0.008	0.0	0.0	0.0
1356	63.611	63.611	0.007	0.0	0.0	0.0
1368	63.609	63.609	0.005	0.0	0.0	0.0
1380	63.607	63.607	0.003	0.0	0.0	0.0
1392	63.605	63.605	0.001	0.0	0.0	0.0
1404	63.603	63.603	-0.001	0.0	0.0	0.0
1416	63.602	63.602	-0.003	0.0	0.0	0.0
1428	63.600	63.600	-0.004	0.0	0.0	0.0
1440	63.597	63.598	-0.007	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
720 minute 100 year winter
Average Rainfall Intensity 6.527 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)
1212	65.400	65.000	-0.110	0.0	0.0	0.0
1224	65.400	65.000	-0.110	0.0	0.0	0.0
1236	65.400	65.000	-0.110	0.0	0.0	0.0
1248	65.400	65.000	-0.110	0.0	0.0	0.0
1260	65.400	65.000	-0.110	0.0	0.0	0.0
1272	65.400	65.000	-0.110	0.0	0.0	0.0
1284	65.400	65.000	-0.110	0.0	0.0	0.0
1296	65.400	65.000	-0.110	0.0	0.0	0.0
1308	65.400	65.000	-0.110	0.0	0.0	0.0
1320	65.400	65.000	-0.110	0.0	0.0	0.0
1332	65.400	65.000	-0.110	0.0	0.0	0.0
1344	65.400	65.000	-0.110	0.0	0.0	0.0
1356	65.400	65.000	-0.110	0.0	0.0	0.0
1368	65.400	65.000	-0.110	0.0	0.0	0.0
1380	65.400	65.000	-0.110	0.0	0.0	0.0
1392	65.400	65.000	-0.110	0.0	0.0	0.0
1404	65.400	65.000	-0.110	0.0	0.0	0.0
1416	65.400	65.000	-0.110	0.0	0.0	0.0
1428	65.400	65.000	-0.110	0.0	0.0	0.0
1440	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)
720 minute 100 year winter
Average Rainfall Intensity 6.527 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)
1212	65.000	63.633	-0.110	0.0	0.0	0.0
1224	65.000	63.631	-0.110	0.0	0.0	0.0
1236	65.000	63.629	-0.110	0.0	0.0	0.0
1248	65.000	63.627	-0.110	0.0	0.0	0.0
1260	65.000	63.626	-0.110	0.0	0.0	0.0
1272	65.000	63.624	-0.110	0.0	0.0	0.0
1284	65.000	63.622	-0.110	0.0	0.0	0.0
1296	65.000	63.620	-0.110	0.0	0.0	0.0
1308	65.000	63.618	-0.110	0.0	0.0	0.0
1320	65.000	63.616	-0.110	0.0	0.0	0.0
1332	65.000	63.614	-0.110	0.0	0.0	0.0
1344	65.000	63.613	-0.110	0.0	0.0	0.0
1356	65.000	63.611	-0.110	0.0	0.0	0.0
1368	65.000	63.609	-0.110	0.0	0.0	0.0
1380	65.000	63.607	-0.110	0.0	0.0	0.0
1392	65.000	63.605	-0.110	0.0	0.0	0.0
1404	65.000	63.603	-0.110	0.0	0.0	0.0
1416	65.000	63.602	-0.110	0.0	0.0	0.0
1428	65.000	63.600	-0.110	0.0	0.0	0.0
1440	65.000	63.598	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
720 minute 100 year winter
Average Rainfall Intensity 6.527 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)
1212	63.633	63.633	0.079	0.0	0.0	0.0
1224	63.631	63.631	0.077	0.0	0.0	0.0
1236	63.629	63.629	0.075	0.0	0.0	0.0
1248	63.627	63.628	0.073	0.0	0.0	0.0
1260	63.626	63.626	0.071	0.0	0.0	0.0
1272	63.624	63.624	0.070	0.0	0.0	0.0
1284	63.622	63.622	0.068	0.0	0.0	0.0
1296	63.620	63.620	0.066	0.0	0.0	0.0
1308	63.618	63.618	0.064	0.0	0.0	0.0
1320	63.616	63.616	0.062	0.0	0.0	0.0
1332	63.614	63.615	0.060	0.0	0.0	0.0
1344	63.613	63.613	0.058	0.0	0.0	0.0
1356	63.611	63.611	0.057	0.0	0.0	0.0
1368	63.609	63.609	0.055	0.0	0.0	0.0
1380	63.607	63.607	0.053	0.0	0.0	0.0
1392	63.605	63.605	0.051	0.0	0.0	0.0
1404	63.603	63.604	0.049	0.0	0.0	0.0
1416	63.602	63.602	0.048	0.0	0.0	0.0
1428	63.600	63.600	0.046	0.0	0.0	0.0
1440	63.598	63.598	0.044	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
720 minute 100 year winter
Average Rainfall Intensity 6.527 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)
12	63.251	63.100	-0.109	0.0	0.0	0.0
24	63.253	63.100	-0.107	0.0	0.0	0.0
36	63.255	63.101	-0.105	0.0	0.0	0.0
48	63.258	63.102	-0.102	0.0	0.0	0.0
60	63.262	63.105	-0.098	0.0	0.1	0.0
72	63.265	63.110	-0.095	0.0	0.1	0.0
84	63.269	63.116	-0.091	0.0	0.2	0.0
96	63.272	63.124	-0.088	0.0	0.2	0.1
108	63.275	63.133	-0.085	0.0	0.2	0.1
120	63.278	63.142	-0.082	0.0	0.3	0.1
132	63.280	63.149	-0.080	0.0	0.3	0.1
144	63.283	63.157	-0.077	0.0	0.3	0.1
156	63.285	63.166	-0.075	0.0	0.3	0.1
168	63.289	63.177	-0.071	0.0	0.3	0.1
180	63.292	63.189	-0.068	0.0	0.3	0.1
192	63.296	63.202	-0.064	0.0	0.3	0.1
204	63.301	63.216	-0.059	0.0	0.3	0.1
216	63.306	63.231	-0.054	0.0	0.3	0.1
228	63.313	63.248	-0.047	0.0	0.3	0.1
240	63.322	63.253	-0.038	0.0	0.3	0.1
252	63.333	63.256	-0.027	0.0	0.3	0.1
264	63.345	63.260	-0.015	0.0	0.3	0.1
276	63.359	63.267	-0.001	0.0	0.3	0.1
288	63.376	63.263	0.016	0.0	0.2	0.0
300	63.394	63.263	0.034	0.0	0.2	0.1
312	63.413	63.270	0.053	0.0	0.3	0.1
324	63.434	63.285	0.074	0.0	0.3	0.1
336	63.454	63.306	0.094	0.0	0.3	0.2
348	63.475	63.331	0.115	0.0	0.3	0.2
360	63.496	63.360	0.136	0.0	0.3	0.2
372	63.518	63.389	0.158	0.0	0.3	0.2
384	63.538	63.414	0.178	0.0	0.3	0.2
396	63.558	63.438	0.198	0.0	0.1	0.2
408	63.576	63.460	0.216	0.0	0.0	0.2
420	63.593	63.481	0.233	0.0	0.0	0.2
432	63.609	63.501	0.249	0.0	0.0	0.2
444	63.623	63.519	0.263	0.0	0.0	0.2
456	63.636	63.536	0.276	0.0	0.0	0.2
468	63.647	63.551	0.287	0.0	0.0	0.1
480	63.657	63.565	0.297	0.0	0.0	0.1
492	63.666	63.577	0.306	0.0	0.0	0.1
504	63.674	63.588	0.314	0.0	0.0	0.1
516	63.682	63.598	0.322	0.0	0.0	0.1
528	63.689	63.607	0.329	0.0	0.0	0.1
540	63.696	63.616	0.336	0.0	0.0	0.1
552	63.702	63.624	0.342	0.0	0.0	0.1
564	63.708	63.631	0.348	0.0	0.0	0.1
576	63.713	63.637	0.353	0.0	0.0	0.1
588	63.719	63.644	0.359	0.0	0.0	0.1
600	63.725	63.650	0.365	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
720 minute 100 year winter
Average Rainfall Intensity 6.527 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)
1212	63.633	63.582	0.273	0.0	0.0	0.1
1224	63.631	63.580	0.271	0.0	0.0	0.1
1236	63.629	63.578	0.269	0.0	0.0	0.1
1248	63.628	63.577	0.268	0.0	0.0	0.1
1260	63.626	63.575	0.266	0.0	0.0	0.1
1272	63.624	63.573	0.264	0.0	0.0	0.1
1284	63.622	63.571	0.262	0.0	0.0	0.1
1296	63.620	63.569	0.260	0.0	0.0	0.1
1308	63.618	63.568	0.258	0.0	0.0	0.1
1320	63.616	63.566	0.256	0.0	0.0	0.1
1332	63.615	63.564	0.255	0.0	0.0	0.1
1344	63.613	63.562	0.253	0.0	0.0	0.1
1356	63.611	63.561	0.251	0.0	0.0	0.1
1368	63.609	63.559	0.249	0.0	0.0	0.1
1380	63.607	63.557	0.247	0.0	0.0	0.1
1392	63.605	63.555	0.245	0.0	0.0	0.1
1404	63.604	63.553	0.244	0.0	0.0	0.1
1416	63.602	63.552	0.242	0.0	0.0	0.1
1428	63.600	63.550	0.240	0.0	0.0	0.1
1440	63.598	63.548	0.238	0.0	0.0	0.1

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Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
720 minute 100 year winter
Average Rainfall Intensity 6.527 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)
12	63.100	63.096	-0.110	0.0	0.0	0.0
24	63.100	63.096	-0.110	0.0	0.0	0.0
36	63.101	63.096	-0.109	0.0	0.0	0.0
48	63.102	63.096	-0.108	0.0	0.0	0.0
60	63.105	63.096	-0.105	0.0	0.0	0.0
72	63.110	63.096	-0.100	0.0	0.0	0.0
84	63.116	63.096	-0.094	0.0	0.0	0.0
96	63.124	63.096	-0.086	0.0	0.0	0.0
108	63.133	63.096	-0.077	0.0	0.0	0.0
120	63.142	63.096	-0.068	0.0	0.0	0.0
132	63.149	63.096	-0.061	0.0	0.0	0.0
144	63.157	63.096	-0.053	0.0	0.0	0.0
156	63.166	63.096	-0.044	0.0	0.0	0.0
168	63.177	63.096	-0.033	0.0	0.0	0.0
180	63.189	63.096	-0.021	0.0	0.0	0.0
192	63.202	63.096	-0.008	0.0	0.0	0.0
204	63.216	63.096	0.006	0.0	0.0	0.0
216	63.231	63.096	0.021	0.0	0.0	0.0
228	63.248	63.096	0.038	0.0	0.0	0.0
240	63.253	63.096	0.043	0.0	0.0	0.0
252	63.256	63.096	0.046	0.0	0.0	0.0
264	63.260	63.096	0.050	0.0	0.0	0.0
276	63.267	63.096	0.057	0.0	0.0	0.0
288	63.263	63.096	0.053	0.0	0.0	0.0
300	63.263	63.096	0.053	0.0	0.0	0.0
312	63.270	63.096	0.060	0.0	0.0	0.0
324	63.285	63.096	0.075	0.0	0.0	0.0
336	63.306	63.096	0.096	0.0	0.0	0.0
348	63.331	63.096	0.121	0.0	0.1	0.0
360	63.360	63.096	0.150	0.0	0.1	0.0
372	63.389	63.096	0.179	0.0	0.1	0.0
384	63.414	63.096	0.204	0.0	0.1	0.0
396	63.438	63.096	0.228	0.0	0.1	0.0
408	63.460	63.096	0.250	0.0	0.1	0.0
420	63.481	63.096	0.271	0.0	0.1	0.0
432	63.501	63.096	0.291	0.0	0.1	0.0
444	63.519	63.096	0.309	0.0	0.1	0.0
456	63.536	63.096	0.326	0.0	0.1	0.0
468	63.551	63.096	0.341	0.0	0.1	0.0
480	63.565	63.096	0.355	0.0	0.1	0.0
492	63.577	63.096	0.367	0.0	0.1	0.0
504	63.588	63.096	0.378	0.0	0.1	0.0
516	63.598	63.096	0.388	0.0	0.1	0.0
528	63.607	63.096	0.397	0.0	0.1	0.0
540	63.616	63.096	0.406	0.0	0.1	0.0
552	63.624	63.096	0.414	0.0	0.1	0.0
564	63.631	63.096	0.421	0.0	0.1	0.0
576	63.637	63.096	0.427	0.0	0.1	0.0
588	63.644	63.096	0.434	0.0	0.1	0.0
600	63.650	63.096	0.440	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
720 minute 100 year winter
Average Rainfall Intensity 6.527 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)
612	63.656	63.096	0.446	0.0	0.1	0.0
624	63.663	63.096	0.453	0.0	0.1	0.0
636	63.673	63.096	0.463	0.0	0.1	0.0
648	63.689	63.096	0.479	0.0	0.1	0.0
660	63.700	63.096	0.490	0.0	0.1	0.0
672	63.700	63.096	0.490	0.0	0.1	0.0
684	63.700	63.096	0.490	0.0	0.1	0.0
696	63.700	63.096	0.490	0.0	0.1	0.0
708	63.700	63.096	0.490	0.0	0.1	0.0
720	63.700	63.096	0.490	0.0	0.1	0.0
732	63.700	63.096	0.490	0.0	0.1	0.0
744	63.700	63.096	0.490	0.0	0.1	0.0
756	63.700	63.096	0.490	0.0	0.1	0.0
768	63.700	63.096	0.490	0.0	0.1	0.0
780	63.700	63.096	0.490	0.0	0.1	0.0
792	63.689	63.096	0.479	0.0	0.1	0.0
804	63.678	63.096	0.468	0.0	0.1	0.0
816	63.670	63.096	0.460	0.0	0.1	0.0
828	63.664	63.096	0.454	0.0	0.1	0.0
840	63.659	63.096	0.449	0.0	0.1	0.0
852	63.654	63.096	0.444	0.0	0.1	0.0
864	63.650	63.096	0.440	0.0	0.1	0.0
876	63.646	63.096	0.436	0.0	0.1	0.0
888	63.642	63.096	0.432	0.0	0.1	0.0
900	63.639	63.096	0.429	0.0	0.1	0.0
912	63.636	63.096	0.426	0.0	0.1	0.0
924	63.633	63.096	0.423	0.0	0.1	0.0
936	63.630	63.096	0.420	0.0	0.1	0.0
948	63.627	63.096	0.417	0.0	0.1	0.0
960	63.625	63.096	0.415	0.0	0.1	0.0
972	63.623	63.096	0.413	0.0	0.1	0.0
984	63.620	63.096	0.410	0.0	0.1	0.0
996	63.618	63.096	0.408	0.0	0.1	0.0
1008	63.615	63.096	0.405	0.0	0.1	0.0
1020	63.613	63.096	0.403	0.0	0.1	0.0
1032	63.611	63.096	0.401	0.0	0.1	0.0
1044	63.609	63.096	0.399	0.0	0.1	0.0
1056	63.607	63.096	0.397	0.0	0.1	0.0
1068	63.605	63.096	0.395	0.0	0.1	0.0
1080	63.602	63.096	0.392	0.0	0.1	0.0
1092	63.601	63.096	0.391	0.0	0.1	0.0
1104	63.599	63.096	0.389	0.0	0.1	0.0
1116	63.597	63.096	0.387	0.0	0.1	0.0
1128	63.595	63.096	0.385	0.0	0.1	0.0
1140	63.593	63.096	0.383	0.0	0.1	0.0
1152	63.591	63.096	0.381	0.0	0.1	0.0
1164	63.589	63.096	0.379	0.0	0.1	0.0
1176	63.587	63.096	0.377	0.0	0.1	0.0
1188	63.586	63.096	0.376	0.0	0.1	0.0
1200	63.584	63.096	0.374	0.0	0.1	0.0

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1212	63.582	63.096	0.372	0.0	0.1	0.0
1224	63.580	63.096	0.370	0.0	0.1	0.0
1236	63.578	63.096	0.368	0.0	0.1	0.0
1248	63.577	63.096	0.367	0.0	0.1	0.0
1260	63.575	63.096	0.365	0.0	0.1	0.0
1272	63.573	63.096	0.363	0.0	0.1	0.0
1284	63.571	63.096	0.361	0.0	0.1	0.0
1296	63.569	63.096	0.359	0.0	0.1	0.0
1308	63.568	63.096	0.358	0.0	0.1	0.0
1320	63.566	63.096	0.356	0.0	0.1	0.0
1332	63.564	63.096	0.354	0.0	0.1	0.0
1344	63.562	63.096	0.352	0.0	0.1	0.0
1356	63.561	63.096	0.351	0.0	0.1	0.0
1368	63.559	63.096	0.349	0.0	0.1	0.0
1380	63.557	63.096	0.347	0.0	0.1	0.0
1392	63.555	63.096	0.345	0.0	0.1	0.0
1404	63.553	63.096	0.343	0.0	0.1	0.0
1416	63.552	63.096	0.342	0.0	0.1	0.0
1428	63.550	63.096	0.340	0.0	0.1	0.0
1440	63.548	63.096	0.338	0.0	0.1	0.0