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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)	360
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	3

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)	180
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 180 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	65.412	-0.098	0.000	0.03	0.0	0.8	OK
1.001	S1	63.631	0.027	0.000	0.22	0.0	1.5	SURCHARGED
2.000	RE2	65.413	-0.097	0.000	0.04	0.0	0.8	OK
2.001	S2	65.016	-0.094	0.000	0.05	0.0	1.5	OK
1.002	S3	63.631	0.077	0.000	0.42	0.0	3.0	SURCHARGED
1.003	S4	63.630	0.270	0.000	0.06	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.559	0.349	0.000	0.01	0.0	0.0	SURCHARGED

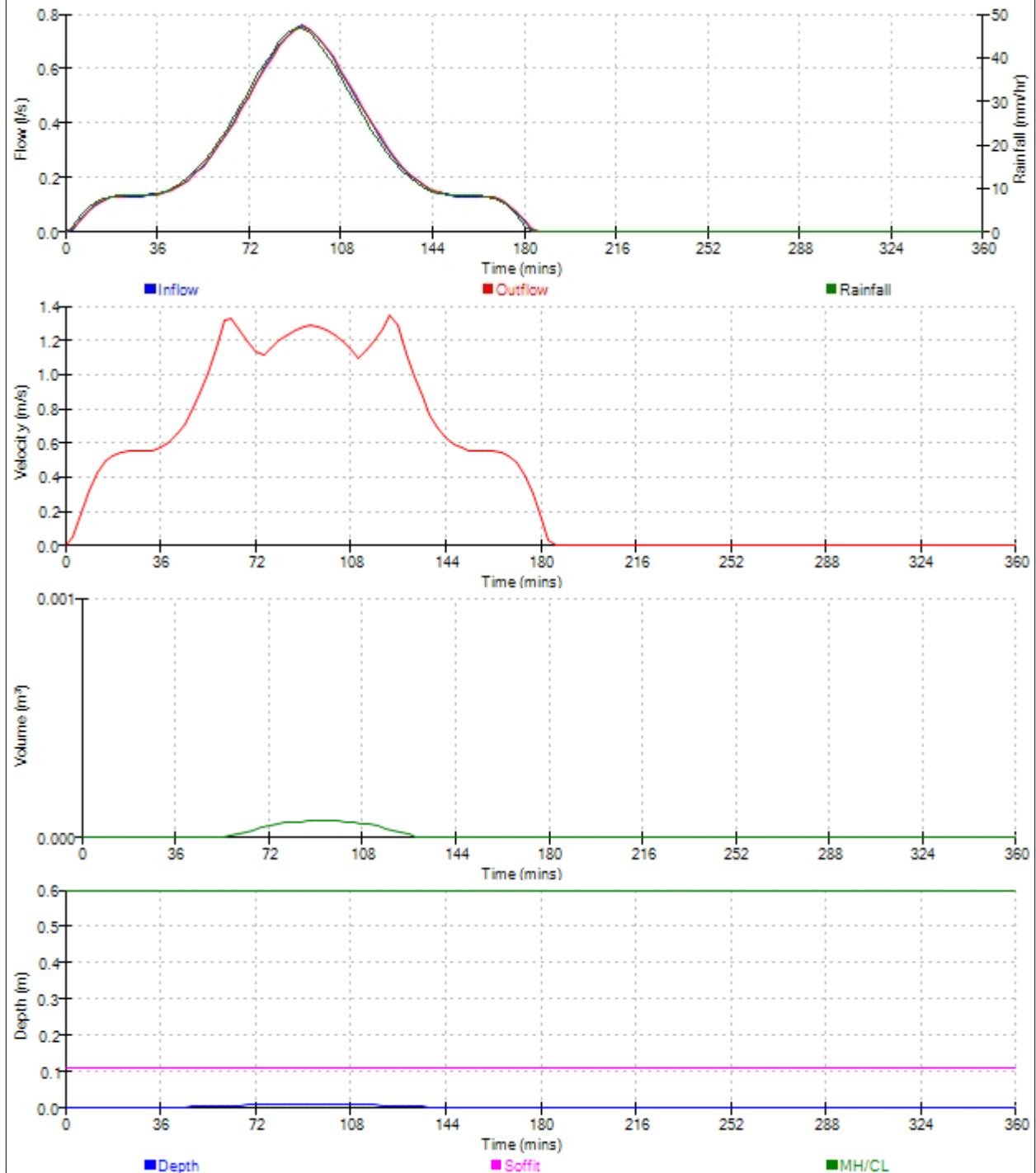
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Rainfall Hyetograph for 180 minute 100 year winter (Storm)

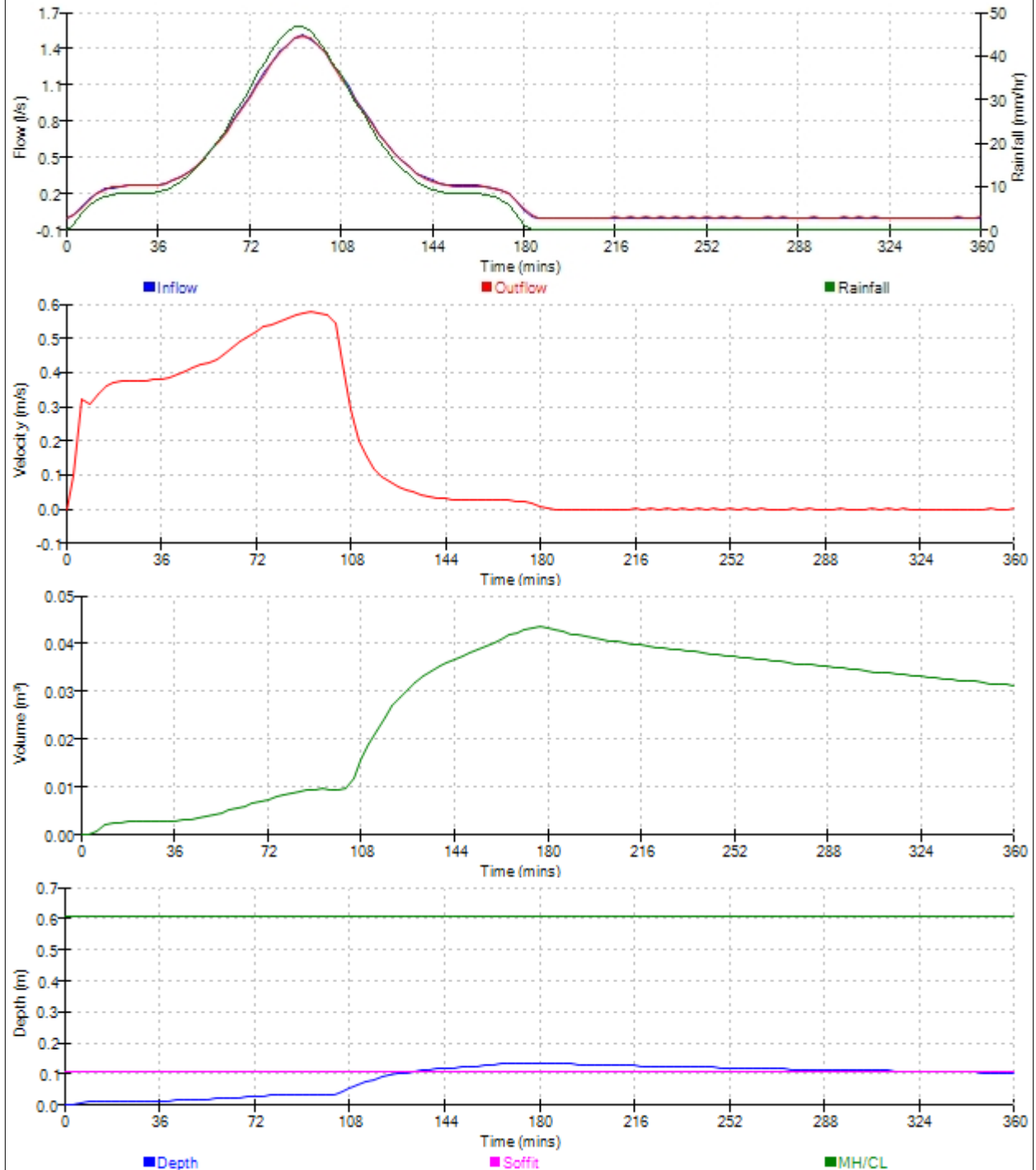
Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
3	1.325	39	9.256	75	35.734	111	32.432	147	8.706
6	3.810	42	10.003	78	38.547	114	29.469	150	8.435
9	5.634	45	10.996	81	41.169	117	26.550	153	8.309
12	6.982	48	12.454	84	43.745	120	23.401	156	8.290
15	7.697	51	14.061	87	45.571	123	20.782	159	8.307
18	8.105	54	15.929	90	46.888	126	18.359	162	8.285
21	8.285	57	18.359	93	46.888	129	15.929	165	8.105
24	8.307	60	20.782	96	45.571	132	14.061	168	7.698
27	8.290	63	23.401	99	43.745	135	12.454	171	6.982
30	8.309	66	26.550	102	41.169	138	10.996	174	5.634
33	8.435	69	29.469	105	38.547	141	10.003	177	3.810
36	8.706	72	32.432	108	35.734	144	9.256	180	1.325

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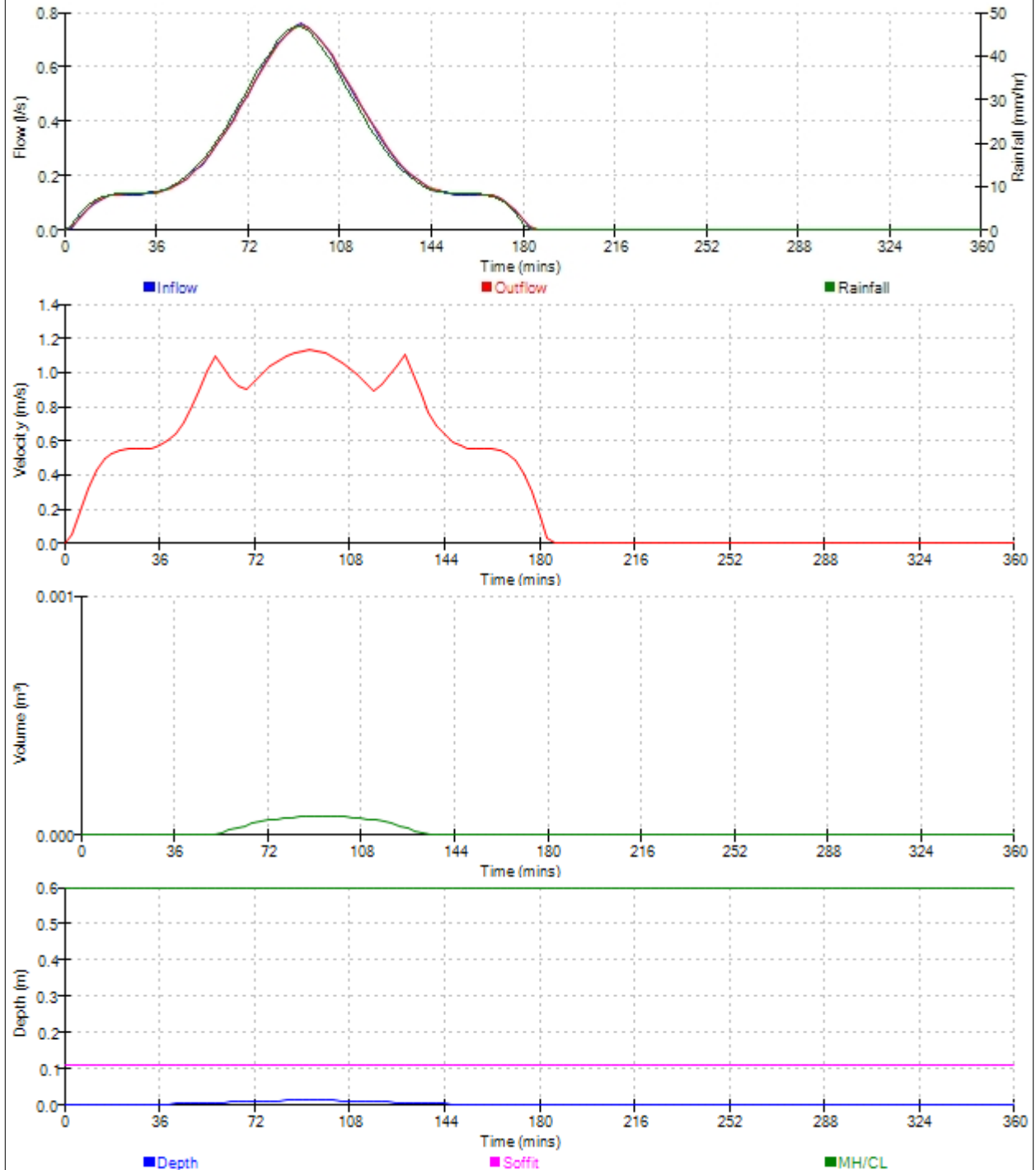
Graphs for Pipe 1.000 US/MH RE1 (Storm)
180 minute 100 year Winter
Status: OK



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

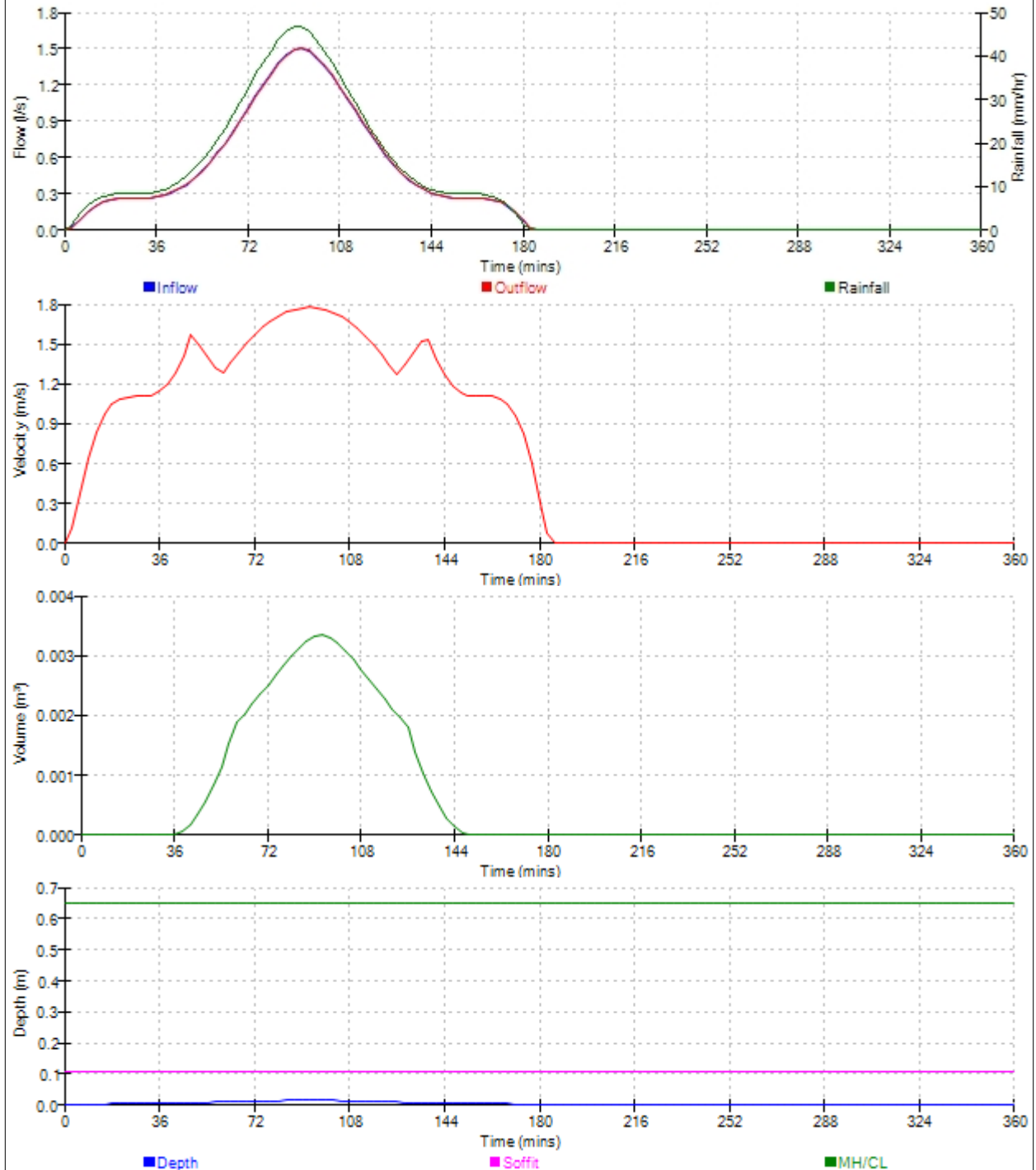


Graphs for Pipe 2.000 US/MH RE2 (Storm)
180 minute 100 year Winter
Status: OK



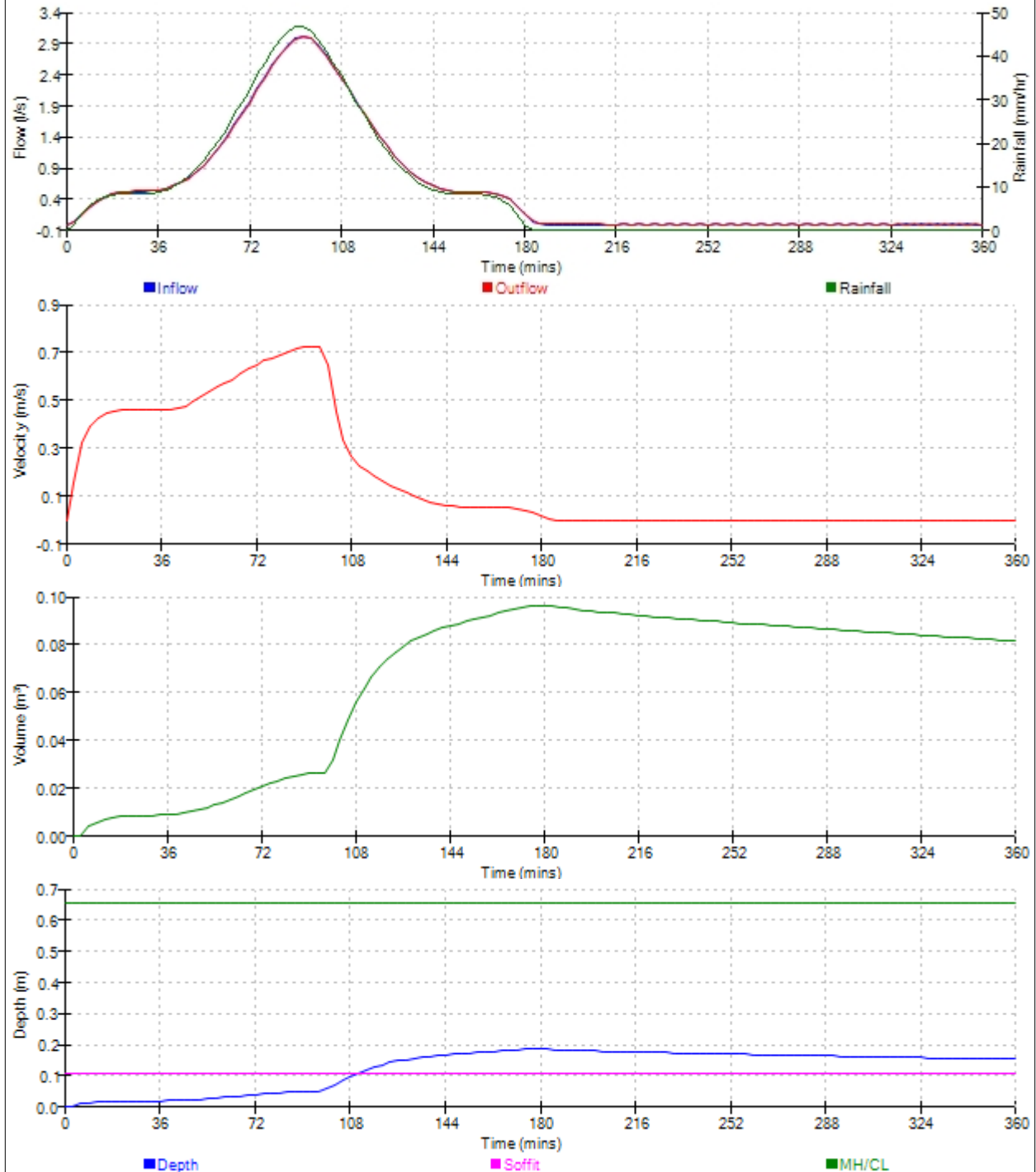
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Graphs for Pipe 2.001 US/MH S2 (Storm)
180 minute 100 year winter
Status: OK

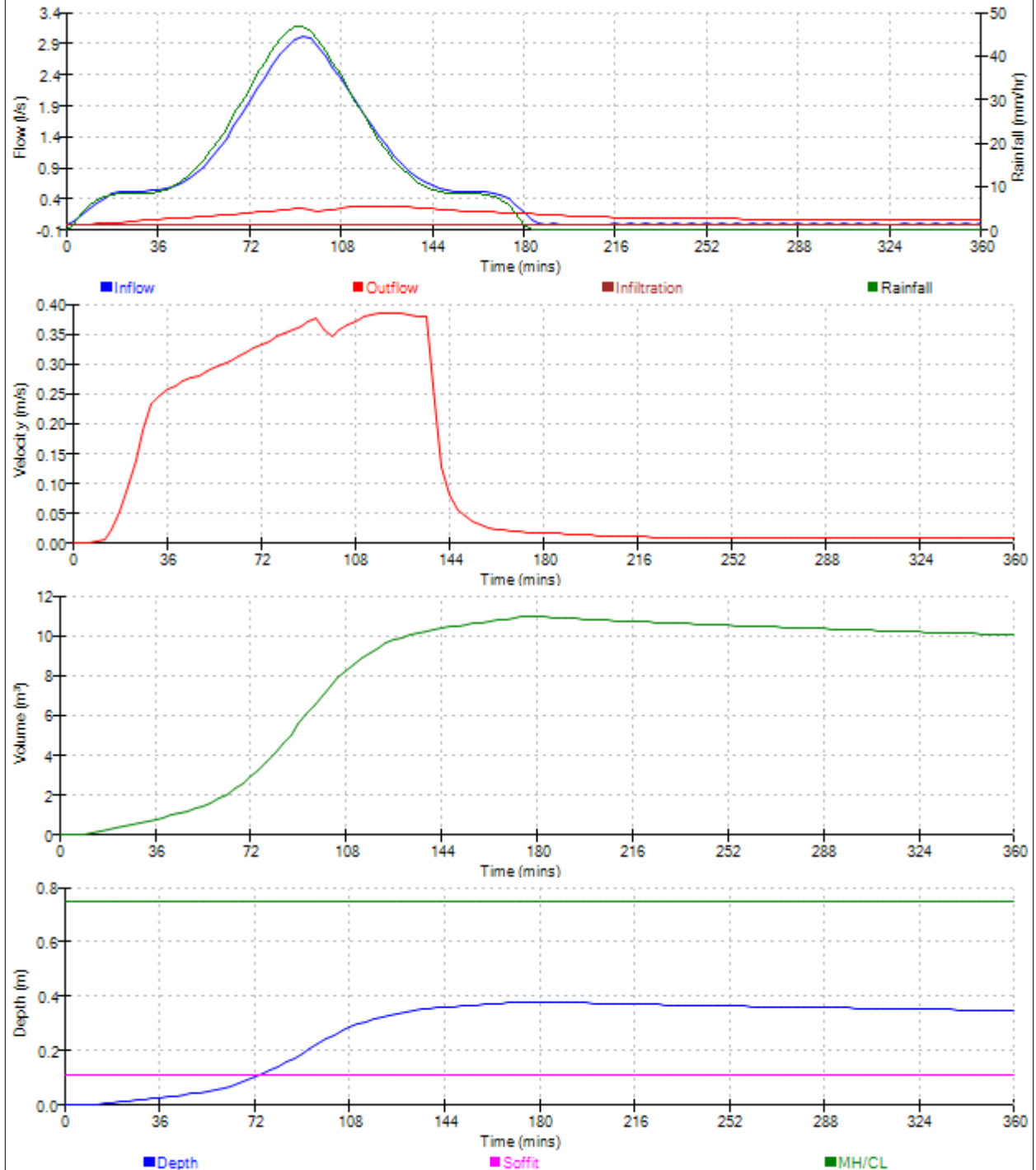


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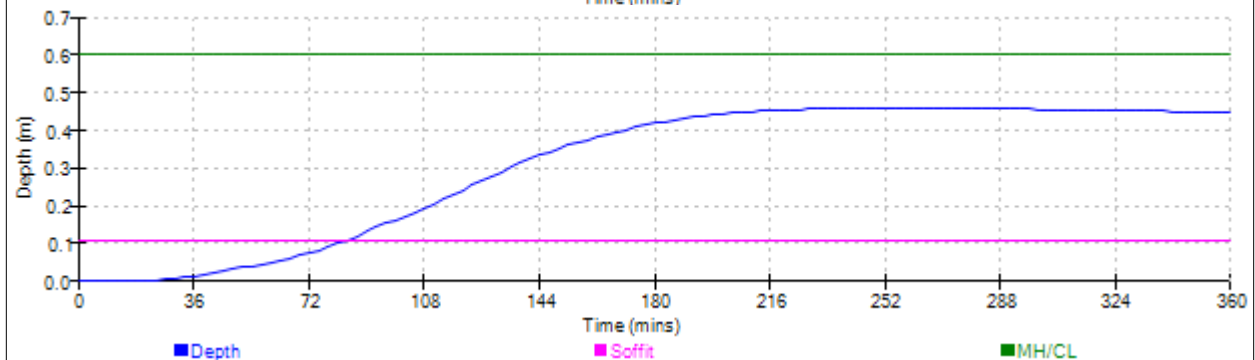
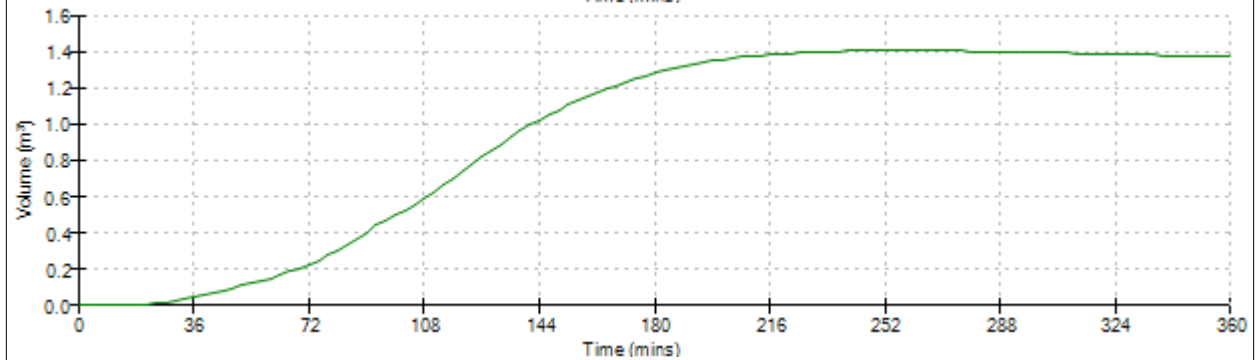
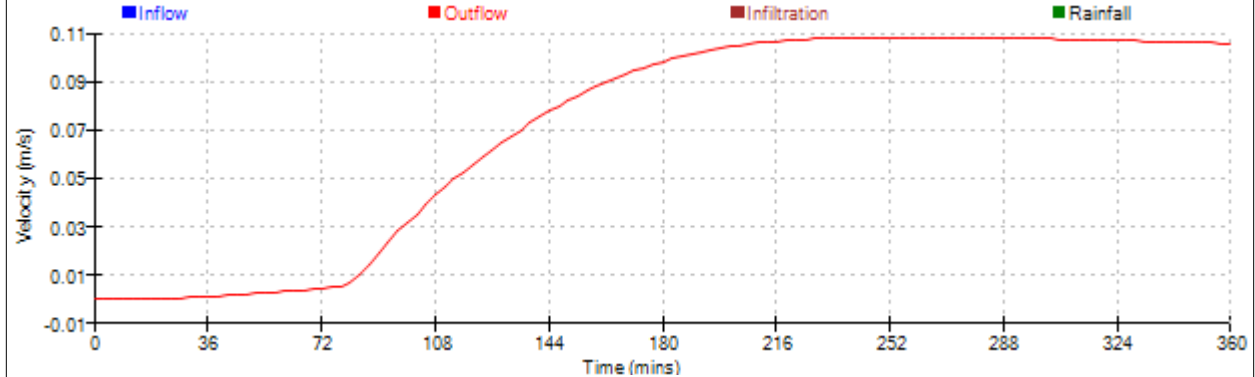
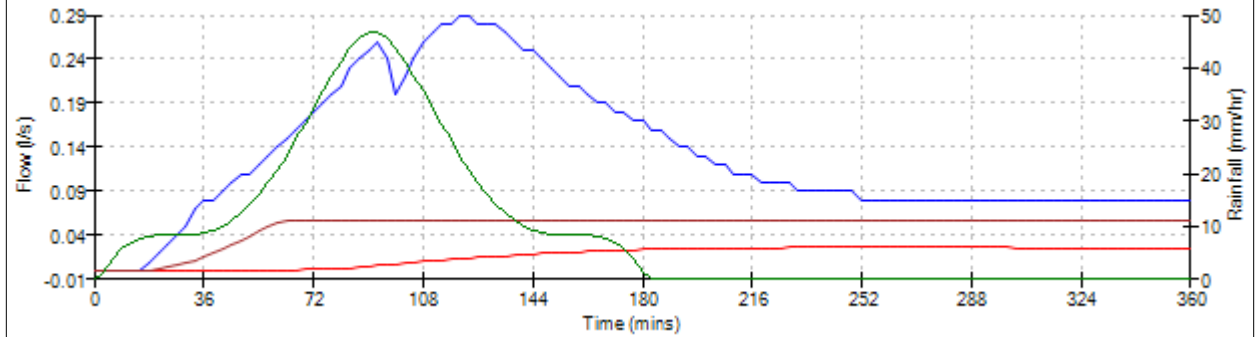
Graphs for Pipe 1.002 US/MH S3 (Storm)
180 minute 100 year winter
Status: SURCHARGED



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



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



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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
180 minute 100 year winter
Average Rainfall Intensity 18.641 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)
3	65.400	63.496	-0.110	0.0	0.1	0.0
6	65.401	63.502	-0.109	0.0	0.2	0.0
9	65.402	63.506	-0.108	0.0	0.3	0.1
12	65.402	63.507	-0.108	0.0	0.4	0.1
15	65.402	63.508	-0.108	0.0	0.5	0.1
18	65.403	63.508	-0.107	0.0	0.5	0.1
21	65.403	63.508	-0.107	0.0	0.5	0.1
24	65.403	63.508	-0.107	0.0	0.6	0.1
27	65.403	63.508	-0.107	0.0	0.6	0.1
30	65.403	63.508	-0.107	0.0	0.6	0.1
33	65.403	63.508	-0.107	0.0	0.6	0.1
36	65.403	63.508	-0.107	0.0	0.6	0.1
39	65.403	63.509	-0.107	0.0	0.6	0.1
42	65.403	63.509	-0.107	0.0	0.6	0.2
45	65.403	63.510	-0.107	0.0	0.7	0.2
48	65.404	63.511	-0.106	0.0	0.8	0.2
51	65.404	63.512	-0.106	0.0	0.9	0.2
54	65.405	63.514	-0.105	0.0	1.0	0.2
57	65.406	63.515	-0.104	0.0	1.2	0.3
60	65.407	63.517	-0.103	0.0	1.3	0.3
63	65.407	63.518	-0.103	0.0	1.3	0.4
66	65.408	63.520	-0.102	0.0	1.3	0.4
69	65.409	63.521	-0.101	0.0	1.2	0.4
72	65.410	63.522	-0.100	0.0	1.1	0.5
75	65.411	63.524	-0.099	0.0	1.1	0.5
78	65.411	63.525	-0.099	0.0	1.2	0.6
81	65.412	63.527	-0.098	0.0	1.2	0.6
84	65.412	63.528	-0.098	0.0	1.2	0.7
87	65.412	63.529	-0.098	0.0	1.3	0.7
90	65.412	63.529	-0.098	0.0	1.3	0.7
93	65.412	63.529	-0.098	0.0	1.3	0.8
96	65.412	63.529	-0.098	0.0	1.3	0.7
99	65.412	63.528	-0.098	0.0	1.3	0.7
102	65.412	63.530	-0.098	0.0	1.2	0.7
105	65.412	63.536	-0.098	0.0	1.2	0.6
108	65.411	63.548	-0.099	0.0	1.1	0.6
111	65.411	63.559	-0.099	0.0	1.1	0.6
114	65.410	63.568	-0.100	0.0	1.1	0.5
117	65.409	63.577	-0.101	0.0	1.2	0.5
120	65.408	63.584	-0.102	0.0	1.3	0.4
123	65.407	63.590	-0.103	0.0	1.3	0.4
126	65.406	63.595	-0.104	0.0	1.3	0.3
129	65.406	63.599	-0.104	0.0	1.1	0.3
132	65.405	63.603	-0.105	0.0	1.0	0.2
135	65.404	63.606	-0.106	0.0	0.9	0.2
138	65.404	63.609	-0.106	0.0	0.8	0.2
141	65.403	63.611	-0.107	0.0	0.7	0.2
144	65.403	63.613	-0.107	0.0	0.6	0.2
147	65.403	63.615	-0.107	0.0	0.6	0.1
150	65.403	63.617	-0.107	0.0	0.6	0.1

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Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
180 minute 100 year winter
Average Rainfall Intensity 18.641 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)
303	65.400	63.606	-0.110	0.0	0.0	0.0
306	65.400	63.605	-0.110	0.0	0.0	0.0
309	65.400	63.605	-0.110	0.0	0.0	0.0
312	65.400	63.605	-0.110	0.0	0.0	0.0
315	65.400	63.604	-0.110	0.0	0.0	0.0
318	65.400	63.604	-0.110	0.0	0.0	0.0
321	65.400	63.603	-0.110	0.0	0.0	0.0
324	65.400	63.603	-0.110	0.0	0.0	0.0
327	65.400	63.602	-0.110	0.0	0.0	0.0
330	65.400	63.602	-0.110	0.0	0.0	0.0
333	65.400	63.601	-0.110	0.0	0.0	0.0
336	65.400	63.601	-0.110	0.0	0.0	0.0
339	65.400	63.600	-0.110	0.0	0.0	0.0
342	65.400	63.600	-0.110	0.0	0.0	0.0
345	65.400	63.600	-0.110	0.0	0.0	0.0
348	65.400	63.599	-0.110	0.0	0.0	0.0
351	65.400	63.598	-0.110	0.0	0.0	0.0
354	65.400	63.598	-0.110	0.0	0.0	0.0
357	65.400	63.598	-0.110	0.0	0.0	0.0
360	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)
153	63.618	63.617	0.014	0.0	0.0	0.3
156	63.620	63.619	0.016	0.0	0.0	0.3
159	63.622	63.621	0.018	0.0	0.0	0.3
162	63.624	63.623	0.020	0.0	0.0	0.3
165	63.626	63.625	0.022	0.0	0.0	0.3
168	63.628	63.627	0.024	0.0	0.0	0.2
171	63.630	63.629	0.026	0.0	0.0	0.2
174	63.631	63.630	0.027	0.0	0.0	0.2
177	63.631	63.631	0.027	0.0	0.0	0.2
180	63.631	63.630	0.027	0.0	0.0	0.1
183	63.629	63.629	0.025	0.0	0.0	0.0
186	63.628	63.628	0.024	0.0	0.0	0.0
189	63.627	63.628	0.023	0.0	0.0	0.0
192	63.627	63.627	0.022	0.0	0.0	0.0
195	63.626	63.626	0.022	0.0	0.0	0.0
198	63.625	63.625	0.021	0.0	0.0	0.0
201	63.624	63.624	0.020	0.0	0.0	0.0
204	63.623	63.624	0.019	0.0	0.0	0.0
207	63.623	63.623	0.019	0.0	0.0	0.0
210	63.622	63.622	0.018	0.0	0.0	0.0
213	63.622	63.622	0.017	0.0	0.0	0.0
216	63.621	63.621	0.017	0.0	0.0	0.0
219	63.620	63.620	0.016	0.0	0.0	0.0
222	63.620	63.620	0.015	0.0	0.0	0.0
225	63.619	63.619	0.015	0.0	0.0	0.0
228	63.619	63.619	0.014	0.0	0.0	0.0
231	63.618	63.618	0.014	0.0	0.0	0.0
234	63.617	63.618	0.013	0.0	0.0	0.0
237	63.617	63.617	0.013	0.0	0.0	0.0
240	63.616	63.617	0.012	0.0	0.0	0.0
243	63.616	63.616	0.012	0.0	0.0	0.0
246	63.615	63.615	0.011	0.0	0.0	0.0
249	63.615	63.615	0.010	0.0	0.0	0.0
252	63.614	63.614	0.010	0.0	0.0	0.0
255	63.614	63.614	0.009	0.0	0.0	0.0
258	63.613	63.613	0.009	0.0	0.0	0.0
261	63.613	63.613	0.009	0.0	0.0	0.0
264	63.612	63.612	0.008	0.0	0.0	0.0
267	63.612	63.612	0.008	0.0	0.0	0.0
270	63.611	63.611	0.007	0.0	0.0	0.0
273	63.611	63.611	0.007	0.0	0.0	0.0
276	63.610	63.610	0.006	0.0	0.0	0.0
279	63.610	63.610	0.006	0.0	0.0	0.0
282	63.609	63.609	0.005	0.0	0.0	0.0
285	63.609	63.609	0.005	0.0	0.0	0.0
288	63.608	63.609	0.004	0.0	0.0	0.0
291	63.608	63.608	0.004	0.0	0.0	0.0
294	63.607	63.608	0.003	0.0	0.0	0.0
297	63.607	63.607	0.003	0.0	0.0	0.0
300	63.607	63.607	0.002	0.0	0.0	0.0

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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
180 minute 100 year winter
Average Rainfall Intensity 18.641 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)
303	63.606	63.606	0.002	0.0	0.0	0.0
306	63.605	63.606	0.001	0.0	0.0	0.0
309	63.605	63.605	0.001	0.0	0.0	0.0
312	63.605	63.605	0.001	0.0	0.0	0.0
315	63.604	63.604	0.000	0.0	0.0	0.0
318	63.604	63.604	-0.001	0.0	0.0	0.0
321	63.603	63.603	-0.001	0.0	0.0	0.0
324	63.603	63.603	-0.001	0.0	0.0	0.0
327	63.602	63.602	-0.002	0.0	0.0	0.0
330	63.602	63.602	-0.002	0.0	0.0	0.0
333	63.601	63.602	-0.003	0.0	0.0	0.0
336	63.601	63.601	-0.003	0.0	0.0	0.0
339	63.600	63.601	-0.004	0.0	0.0	0.0
342	63.600	63.600	-0.004	0.0	0.0	0.0
345	63.600	63.600	-0.004	0.0	0.0	0.0
348	63.599	63.599	-0.005	0.0	0.0	0.0
351	63.598	63.599	-0.006	0.0	0.0	0.0
354	63.598	63.598	-0.006	0.0	0.0	0.0
357	63.598	63.598	-0.006	0.0	0.0	0.0
360	63.597	63.597	-0.007	0.0	0.0	0.0

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Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
180 minute 100 year winter
Average Rainfall Intensity 18.641 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)
303	65.400	65.000	-0.110	0.0	0.0	0.0
306	65.400	65.000	-0.110	0.0	0.0	0.0
309	65.400	65.000	-0.110	0.0	0.0	0.0
312	65.400	65.000	-0.110	0.0	0.0	0.0
315	65.400	65.000	-0.110	0.0	0.0	0.0
318	65.400	65.000	-0.110	0.0	0.0	0.0
321	65.400	65.000	-0.110	0.0	0.0	0.0
324	65.400	65.000	-0.110	0.0	0.0	0.0
327	65.400	65.000	-0.110	0.0	0.0	0.0
330	65.400	65.000	-0.110	0.0	0.0	0.0
333	65.400	65.000	-0.110	0.0	0.0	0.0
336	65.400	65.000	-0.110	0.0	0.0	0.0
339	65.400	65.000	-0.110	0.0	0.0	0.0
342	65.400	65.000	-0.110	0.0	0.0	0.0
345	65.400	65.000	-0.110	0.0	0.0	0.0
348	65.400	65.000	-0.110	0.0	0.0	0.0
351	65.400	65.000	-0.110	0.0	0.0	0.0
354	65.400	65.000	-0.110	0.0	0.0	0.0
357	65.400	65.000	-0.110	0.0	0.0	0.0
360	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)
180 minute 100 year winter
Average Rainfall Intensity 18.641 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)
303	65.000	63.606	-0.110	0.0	0.0	0.0
306	65.000	63.606	-0.110	0.0	0.0	0.0
309	65.000	63.605	-0.110	0.0	0.0	0.0
312	65.000	63.605	-0.110	0.0	0.0	0.0
315	65.000	63.604	-0.110	0.0	0.0	0.0
318	65.000	63.604	-0.110	0.0	0.0	0.0
321	65.000	63.603	-0.110	0.0	0.0	0.0
324	65.000	63.603	-0.110	0.0	0.0	0.0
327	65.000	63.602	-0.110	0.0	0.0	0.0
330	65.000	63.602	-0.110	0.0	0.0	0.0
333	65.000	63.602	-0.110	0.0	0.0	0.0
336	65.000	63.601	-0.110	0.0	0.0	0.0
339	65.000	63.601	-0.110	0.0	0.0	0.0
342	65.000	63.600	-0.110	0.0	0.0	0.0
345	65.000	63.600	-0.110	0.0	0.0	0.0
348	65.000	63.599	-0.110	0.0	0.0	0.0
351	65.000	63.599	-0.110	0.0	0.0	0.0
354	65.000	63.598	-0.110	0.0	0.0	0.0
357	65.000	63.598	-0.110	0.0	0.0	0.0
360	65.000	63.597	-0.110	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
180 minute 100 year winter
Average Rainfall Intensity 18.641 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)
153	63.617	63.616	0.063	0.0	0.1	0.5
156	63.619	63.618	0.065	0.0	0.1	0.5
159	63.621	63.620	0.067	0.0	0.1	0.5
162	63.623	63.622	0.069	0.0	0.1	0.5
165	63.625	63.624	0.071	0.0	0.1	0.5
168	63.627	63.626	0.073	0.0	0.1	0.5
171	63.629	63.627	0.075	0.0	0.0	0.5
174	63.630	63.629	0.076	0.0	0.0	0.4
177	63.631	63.630	0.077	0.0	0.0	0.3
180	63.630	63.630	0.076	0.0	0.0	0.2
183	63.629	63.629	0.075	0.0	0.0	0.1
186	63.628	63.628	0.074	0.0	0.0	0.0
189	63.628	63.628	0.074	0.0	0.0	0.0
192	63.627	63.627	0.072	0.0	0.0	0.0
195	63.626	63.626	0.072	0.0	0.0	0.0
198	63.625	63.625	0.071	0.0	0.0	0.0
201	63.624	63.624	0.070	0.0	0.0	0.0
204	63.624	63.624	0.069	0.0	0.0	0.0
207	63.623	63.623	0.069	0.0	0.0	0.0
210	63.622	63.622	0.068	0.0	0.0	0.0
213	63.622	63.622	0.068	0.0	0.0	0.0
216	63.621	63.621	0.067	0.0	0.0	0.0
219	63.620	63.621	0.066	0.0	0.0	0.0
222	63.620	63.620	0.066	0.0	0.0	0.0
225	63.619	63.619	0.065	0.0	0.0	0.0
228	63.619	63.619	0.065	0.0	0.0	0.0
231	63.618	63.618	0.064	0.0	0.0	0.0
234	63.618	63.618	0.064	0.0	0.0	0.0
237	63.617	63.617	0.063	0.0	0.0	0.0
240	63.617	63.617	0.062	0.0	0.0	0.0
243	63.616	63.616	0.062	0.0	0.0	0.0
246	63.615	63.616	0.061	0.0	0.0	0.0
249	63.615	63.615	0.061	0.0	0.0	0.0
252	63.614	63.615	0.060	0.0	0.0	0.0
255	63.614	63.614	0.060	0.0	0.0	0.0
258	63.613	63.614	0.059	0.0	0.0	0.0
261	63.613	63.613	0.059	0.0	0.0	0.0
264	63.612	63.613	0.058	0.0	0.0	0.0
267	63.612	63.612	0.058	0.0	0.0	0.0
270	63.611	63.612	0.057	0.0	0.0	0.0
273	63.611	63.611	0.057	0.0	0.0	0.0
276	63.610	63.611	0.056	0.0	0.0	0.0
279	63.610	63.610	0.056	0.0	0.0	0.0
282	63.609	63.610	0.055	0.0	0.0	0.0
285	63.609	63.609	0.055	0.0	0.0	0.0
288	63.609	63.609	0.054	0.0	0.0	0.0
291	63.608	63.608	0.054	0.0	0.0	0.0
294	63.608	63.608	0.053	0.0	0.0	0.0
297	63.607	63.607	0.053	0.0	0.0	0.0
300	63.607	63.607	0.053	0.0	0.0	0.0

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Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
180 minute 100 year winter
Average Rainfall Intensity 18.641 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)
303	63.606	63.606	0.052	0.0	0.0	0.0
306	63.606	63.606	0.052	0.0	0.0	0.0
309	63.605	63.605	0.051	0.0	0.0	0.0
312	63.605	63.605	0.051	0.0	0.0	0.0
315	63.604	63.604	0.050	0.0	0.0	0.0
318	63.604	63.604	0.050	0.0	0.0	0.0
321	63.603	63.604	0.049	0.0	0.0	0.0
324	63.603	63.603	0.049	0.0	0.0	0.0
327	63.602	63.603	0.048	0.0	0.0	0.0
330	63.602	63.602	0.048	0.0	0.0	0.0
333	63.602	63.602	0.047	0.0	0.0	0.0
336	63.601	63.601	0.047	0.0	0.0	0.0
339	63.601	63.601	0.047	0.0	0.0	0.0
342	63.600	63.600	0.046	0.0	0.0	0.0
345	63.600	63.600	0.046	0.0	0.0	0.0
348	63.599	63.599	0.045	0.0	0.0	0.0
351	63.599	63.599	0.045	0.0	0.0	0.0
354	63.598	63.599	0.044	0.0	0.0	0.0
357	63.598	63.598	0.044	0.0	0.0	0.0
360	63.597	63.598	0.043	0.0	0.0	0.0

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
180 minute 100 year winter
Average Rainfall Intensity 18.641 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)
153	63.616	63.460	0.256	0.0	0.0	0.2
156	63.618	63.468	0.258	0.0	0.0	0.2
159	63.620	63.476	0.260	0.0	0.0	0.2
162	63.622	63.483	0.262	0.0	0.0	0.2
165	63.624	63.490	0.264	0.0	0.0	0.2
168	63.626	63.496	0.266	0.0	0.0	0.2
171	63.627	63.502	0.267	0.0	0.0	0.2
174	63.629	63.508	0.269	0.0	0.0	0.2
177	63.630	63.514	0.270	0.0	0.0	0.2
180	63.630	63.519	0.270	0.0	0.0	0.2
183	63.629	63.523	0.269	0.0	0.0	0.2
186	63.628	63.528	0.268	0.0	0.0	0.2
189	63.628	63.531	0.268	0.0	0.0	0.1
192	63.627	63.535	0.267	0.0	0.0	0.1
195	63.626	63.538	0.266	0.0	0.0	0.1
198	63.625	63.541	0.265	0.0	0.0	0.1
201	63.624	63.543	0.264	0.0	0.0	0.1
204	63.624	63.546	0.264	0.0	0.0	0.1
207	63.623	63.548	0.263	0.0	0.0	0.1
210	63.622	63.549	0.262	0.0	0.0	0.1
213	63.622	63.550	0.262	0.0	0.0	0.1
216	63.621	63.552	0.261	0.0	0.0	0.1
219	63.621	63.553	0.261	0.0	0.0	0.1
222	63.620	63.554	0.260	0.0	0.0	0.1
225	63.619	63.555	0.259	0.0	0.0	0.1
228	63.619	63.556	0.259	0.0	0.0	0.1
231	63.618	63.557	0.258	0.0	0.0	0.1
234	63.618	63.557	0.258	0.0	0.0	0.1
237	63.617	63.558	0.257	0.0	0.0	0.1
240	63.617	63.558	0.257	0.0	0.0	0.1
243	63.616	63.558	0.256	0.0	0.0	0.1
246	63.616	63.558	0.256	0.0	0.0	0.1
249	63.615	63.559	0.255	0.0	0.0	0.1
252	63.615	63.559	0.255	0.0	0.0	0.1
255	63.614	63.559	0.254	0.0	0.0	0.1
258	63.614	63.559	0.254	0.0	0.0	0.1
261	63.613	63.559	0.253	0.0	0.0	0.1
264	63.613	63.559	0.253	0.0	0.0	0.1
267	63.612	63.558	0.252	0.0	0.0	0.1
270	63.612	63.558	0.252	0.0	0.0	0.1
273	63.611	63.558	0.251	0.0	0.0	0.1
276	63.611	63.558	0.251	0.0	0.0	0.1
279	63.610	63.558	0.250	0.0	0.0	0.1
282	63.610	63.557	0.250	0.0	0.0	0.1
285	63.609	63.557	0.249	0.0	0.0	0.1
288	63.609	63.557	0.249	0.0	0.0	0.1
291	63.608	63.557	0.248	0.0	0.0	0.1
294	63.608	63.556	0.248	0.0	0.0	0.1
297	63.607	63.556	0.247	0.0	0.0	0.1
300	63.607	63.556	0.247	0.0	0.0	0.1

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Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
180 minute 100 year winter
Average Rainfall Intensity 18.641 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)
303	63.606	63.555	0.246	0.0	0.0	0.1
306	63.606	63.555	0.246	0.0	0.0	0.1
309	63.605	63.555	0.245	0.0	0.0	0.1
312	63.605	63.554	0.245	0.0	0.0	0.1
315	63.604	63.554	0.244	0.0	0.0	0.1
318	63.604	63.553	0.244	0.0	0.0	0.1
321	63.604	63.553	0.244	0.0	0.0	0.1
324	63.603	63.553	0.243	0.0	0.0	0.1
327	63.603	63.552	0.243	0.0	0.0	0.1
330	63.602	63.552	0.242	0.0	0.0	0.1
333	63.602	63.551	0.242	0.0	0.0	0.1
336	63.601	63.551	0.241	0.0	0.0	0.1
339	63.601	63.551	0.241	0.0	0.0	0.1
342	63.600	63.550	0.240	0.0	0.0	0.1
345	63.600	63.550	0.240	0.0	0.0	0.1
348	63.599	63.549	0.239	0.0	0.0	0.1
351	63.599	63.549	0.239	0.0	0.0	0.1
354	63.599	63.548	0.239	0.0	0.0	0.1
357	63.598	63.548	0.238	0.0	0.0	0.1
360	63.598	63.548	0.238	0.0	0.0	0.1

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Date Nov 25	Designed by JS	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
180 minute 100 year Winter
Average Rainfall Intensity 18.641 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)
3	63.100	63.096	-0.110	0.0	0.0	0.0
6	63.100	63.096	-0.110	0.0	0.0	0.0
9	63.100	63.096	-0.110	0.0	0.0	0.0
12	63.100	63.096	-0.110	0.0	0.0	0.0
15	63.100	63.096	-0.110	0.0	0.0	0.0
18	63.101	63.096	-0.109	0.0	0.0	0.0
21	63.102	63.096	-0.108	0.0	0.0	0.0
24	63.103	63.096	-0.107	0.0	0.0	0.0
27	63.106	63.096	-0.104	0.0	0.0	0.0
30	63.108	63.096	-0.102	0.0	0.0	0.0
33	63.111	63.096	-0.099	0.0	0.0	0.0
36	63.115	63.096	-0.095	0.0	0.0	0.0
39	63.119	63.096	-0.091	0.0	0.0	0.0
42	63.124	63.096	-0.086	0.0	0.0	0.0
45	63.128	63.096	-0.082	0.0	0.0	0.0
48	63.132	63.096	-0.078	0.0	0.0	0.0
51	63.136	63.096	-0.074	0.0	0.0	0.0
54	63.141	63.096	-0.069	0.0	0.0	0.0
57	63.145	63.096	-0.065	0.0	0.0	0.0
60	63.150	63.096	-0.060	0.0	0.0	0.0
63	63.155	63.096	-0.055	0.0	0.0	0.0
66	63.162	63.096	-0.048	0.0	0.0	0.0
69	63.168	63.096	-0.042	0.0	0.0	0.0
72	63.175	63.096	-0.035	0.0	0.0	0.0
75	63.183	63.096	-0.027	0.0	0.0	0.0
78	63.191	63.096	-0.019	0.0	0.0	0.0
81	63.200	63.096	-0.010	0.0	0.0	0.0
84	63.210	63.096	0.000	0.0	0.0	0.0
87	63.221	63.096	0.011	0.0	0.0	0.0
90	63.233	63.096	0.023	0.0	0.0	0.0
93	63.244	63.096	0.034	0.0	0.0	0.0
96	63.255	63.096	0.045	0.0	0.0	0.0
99	63.263	63.096	0.053	0.0	0.0	0.0
102	63.272	63.096	0.062	0.0	0.0	0.0
105	63.282	63.096	0.072	0.0	0.0	0.0
108	63.293	63.096	0.083	0.0	0.0	0.0
111	63.305	63.096	0.095	0.0	0.0	0.0
114	63.317	63.096	0.107	0.0	0.0	0.0
117	63.329	63.096	0.119	0.0	0.1	0.0
120	63.342	63.096	0.132	0.0	0.1	0.0
123	63.355	63.096	0.145	0.0	0.1	0.0
126	63.367	63.096	0.157	0.0	0.1	0.0
129	63.379	63.096	0.169	0.0	0.1	0.0
132	63.391	63.096	0.181	0.0	0.1	0.0
135	63.403	63.096	0.193	0.0	0.1	0.0
138	63.414	63.096	0.204	0.0	0.1	0.0
141	63.424	63.096	0.214	0.0	0.1	0.0
144	63.434	63.096	0.224	0.0	0.1	0.0
147	63.444	63.096	0.234	0.0	0.1	0.0
150	63.453	63.096	0.243	0.0	0.1	0.0

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Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
180 minute 100 year winter
Average Rainfall Intensity 18.641 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)
153	63.460	63.096	0.250	0.0	0.1	0.0
156	63.468	63.096	0.258	0.0	0.1	0.0
159	63.476	63.096	0.266	0.0	0.1	0.0
162	63.483	63.096	0.273	0.0	0.1	0.0
165	63.490	63.096	0.280	0.0	0.1	0.0
168	63.496	63.096	0.286	0.0	0.1	0.0
171	63.502	63.096	0.292	0.0	0.1	0.0
174	63.508	63.096	0.298	0.0	0.1	0.0
177	63.514	63.096	0.304	0.0	0.1	0.0
180	63.519	63.096	0.309	0.0	0.1	0.0
183	63.523	63.096	0.313	0.0	0.1	0.0
186	63.528	63.096	0.318	0.0	0.1	0.0
189	63.531	63.096	0.321	0.0	0.1	0.0
192	63.535	63.096	0.325	0.0	0.1	0.0
195	63.538	63.096	0.328	0.0	0.1	0.0
198	63.541	63.096	0.331	0.0	0.1	0.0
201	63.543	63.096	0.333	0.0	0.1	0.0
204	63.546	63.096	0.336	0.0	0.1	0.0
207	63.548	63.096	0.338	0.0	0.1	0.0
210	63.549	63.096	0.339	0.0	0.1	0.0
213	63.550	63.096	0.340	0.0	0.1	0.0
216	63.552	63.096	0.342	0.0	0.1	0.0
219	63.553	63.096	0.343	0.0	0.1	0.0
222	63.554	63.096	0.344	0.0	0.1	0.0
225	63.555	63.096	0.345	0.0	0.1	0.0
228	63.556	63.096	0.346	0.0	0.1	0.0
231	63.557	63.096	0.347	0.0	0.1	0.0
234	63.557	63.096	0.347	0.0	0.1	0.0
237	63.558	63.096	0.348	0.0	0.1	0.0
240	63.558	63.096	0.348	0.0	0.1	0.0
243	63.558	63.096	0.348	0.0	0.1	0.0
246	63.558	63.096	0.348	0.0	0.1	0.0
249	63.559	63.096	0.349	0.0	0.1	0.0
252	63.559	63.096	0.349	0.0	0.1	0.0
255	63.559	63.096	0.349	0.0	0.1	0.0
258	63.559	63.096	0.349	0.0	0.1	0.0
261	63.559	63.096	0.349	0.0	0.1	0.0
264	63.559	63.096	0.349	0.0	0.1	0.0
267	63.558	63.096	0.348	0.0	0.1	0.0
270	63.558	63.096	0.348	0.0	0.1	0.0
273	63.558	63.096	0.348	0.0	0.1	0.0
276	63.558	63.096	0.348	0.0	0.1	0.0
279	63.558	63.096	0.348	0.0	0.1	0.0
282	63.557	63.096	0.347	0.0	0.1	0.0
285	63.557	63.096	0.347	0.0	0.1	0.0
288	63.557	63.096	0.347	0.0	0.1	0.0
291	63.557	63.096	0.347	0.0	0.1	0.0
294	63.556	63.096	0.346	0.0	0.1	0.0
297	63.556	63.096	0.346	0.0	0.1	0.0
300	63.556	63.096	0.346	0.0	0.1	0.0

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303	63.555	63.096	0.345	0.0	0.1	0.0
306	63.555	63.096	0.345	0.0	0.1	0.0
309	63.555	63.096	0.345	0.0	0.1	0.0
312	63.554	63.096	0.344	0.0	0.1	0.0
315	63.554	63.096	0.344	0.0	0.1	0.0
318	63.553	63.096	0.343	0.0	0.1	0.0
321	63.553	63.096	0.343	0.0	0.1	0.0
324	63.553	63.096	0.343	0.0	0.1	0.0
327	63.552	63.096	0.342	0.0	0.1	0.0
330	63.552	63.096	0.342	0.0	0.1	0.0
333	63.551	63.096	0.341	0.0	0.1	0.0
336	63.551	63.096	0.341	0.0	0.1	0.0
339	63.551	63.096	0.341	0.0	0.1	0.0
342	63.550	63.096	0.340	0.0	0.1	0.0
345	63.550	63.096	0.340	0.0	0.1	0.0
348	63.549	63.096	0.339	0.0	0.1	0.0
351	63.549	63.096	0.339	0.0	0.1	0.0
354	63.548	63.096	0.338	0.0	0.1	0.0
357	63.548	63.096	0.338	0.0	0.1	0.0
360	63.548	63.096	0.338	0.0	0.1	0.0