

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	
File COMBINED ATTENUATION ...	Checked by	
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

Dixon Hurst Kemp		Page 2
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

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	

Dixon Hurst Kemp	Page 3
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
File COMBINED ATTENUATION ...	Checked by
Elstree Computing Ltd	Network W.12.6



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)	480
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	4

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)	240
Ratio R	0.343		

Dixon Hurst Kemp		Page 4
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

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

Dixon Hurst Kemp		Page 5
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Summary of Results for 240 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	65.411	-0.099	0.000	0.02	0.0	0.6	OK
1.001	S1	63.649	0.045	0.000	0.18	0.0	1.2	SURCHARGED
2.000	RE2	65.412	-0.098	0.000	0.03	0.0	0.6	OK
2.001	S2	65.014	-0.096	0.000	0.04	0.0	1.2	OK
1.002	S3	63.649	0.095	0.000	0.34	0.0	2.4	SURCHARGED
1.003	S4	63.648	0.288	0.000	0.05	0.0	0.3	SURCHARGED
1.004	RAIN GARDEN	63.581	0.371	0.000	0.01	0.0	0.0	SURCHARGED

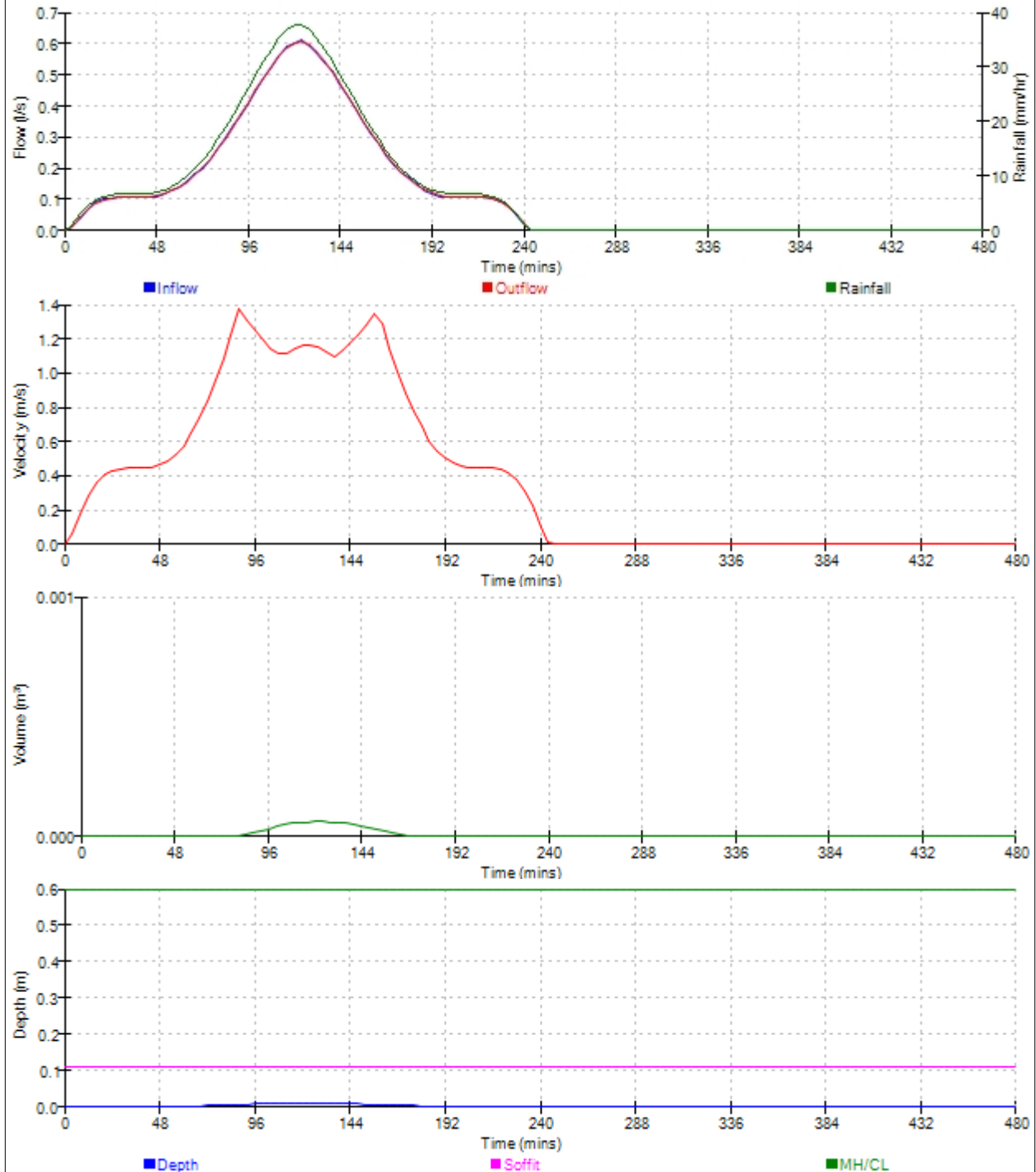
Dixon Hurst Kemp		Page 6
Victoria Court 22 St Pancras West Sussex PO19 7GD	34 Hurst Road. Hassocks Surface Water Drainage Design Simulation Rev03	
Date Nov 25	Designed by JS	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Rainfall Hyetograph for 240 minute 100 year winter (Storm)

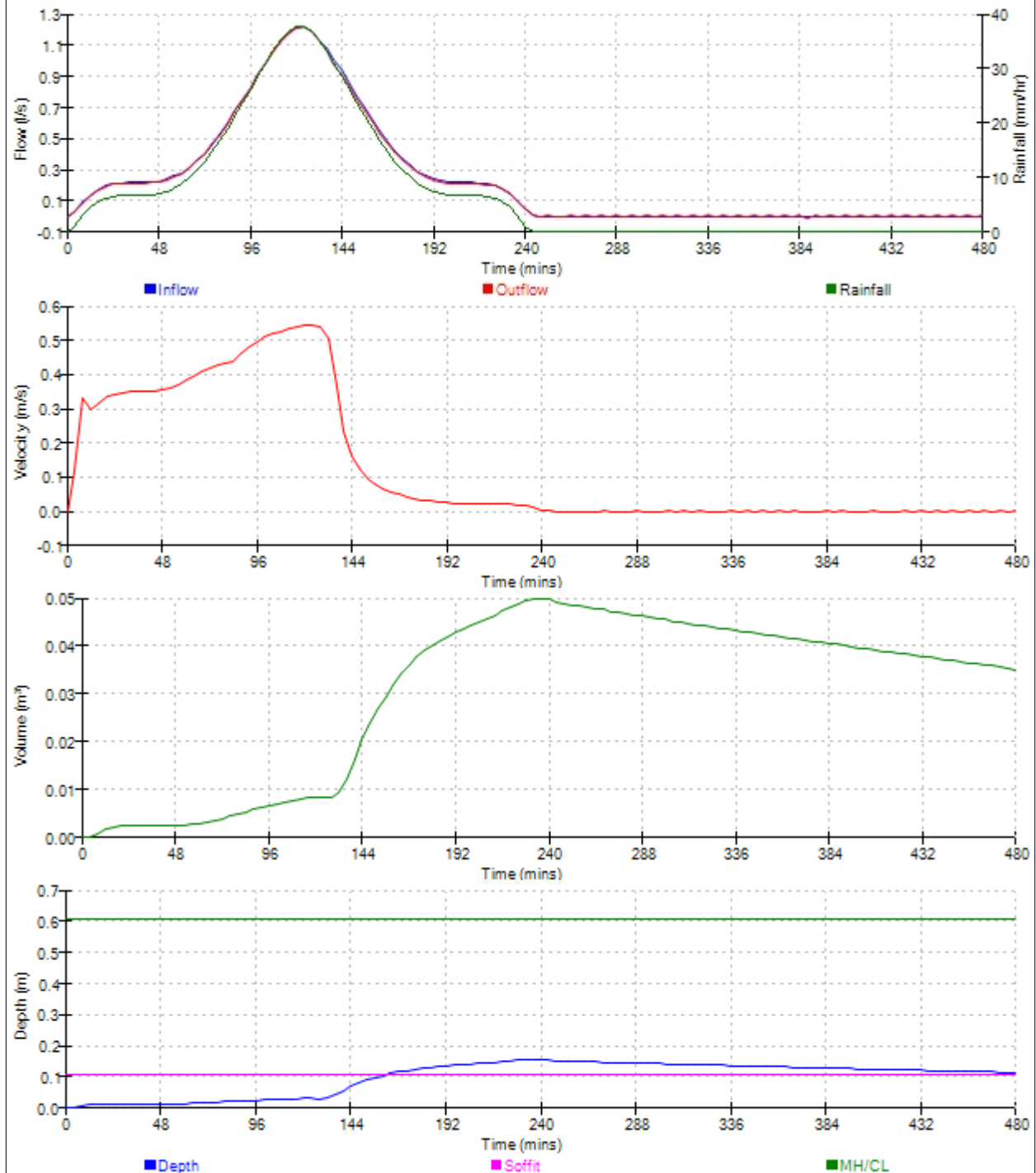
Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)	Time (mins)	Rain (mm/hr)
4	1.067	52	7.450	100	28.762	148	26.104	196	7.007
8	3.067	56	8.052	104	31.026	152	23.719	200	6.789
12	4.535	60	8.851	108	33.137	156	21.370	204	6.688
16	5.620	64	10.024	112	35.210	160	18.835	208	6.672
20	6.196	68	11.317	116	36.680	164	16.727	212	6.686
24	6.523	72	12.821	120	37.739	168	14.777	216	6.668
28	6.668	76	14.777	124	37.739	172	12.821	220	6.523
32	6.686	80	16.727	128	36.680	176	11.317	224	6.196
36	6.672	84	18.835	132	35.210	180	10.024	228	5.620
40	6.688	88	21.370	136	33.137	184	8.851	232	4.535
44	6.789	92	23.719	140	31.026	188	8.052	236	3.067
48	7.007	96	26.104	144	28.762	192	7.450	240	1.066

Dixon Hurst Kemp		Page 7
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

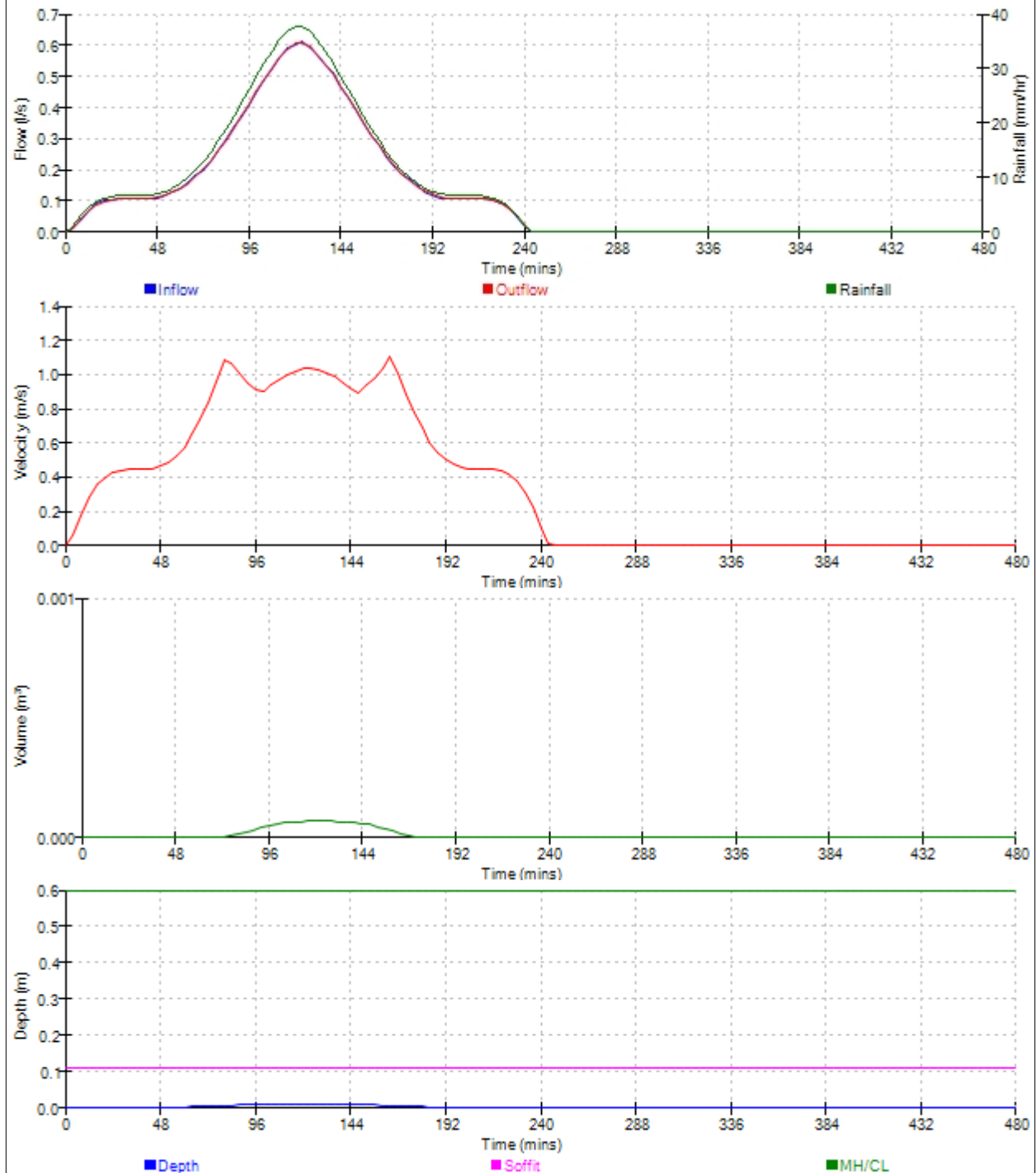
Graphs for Pipe 1.000 US/MH RE1 (Storm)
240 minute 100 year Winter
Status: OK



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

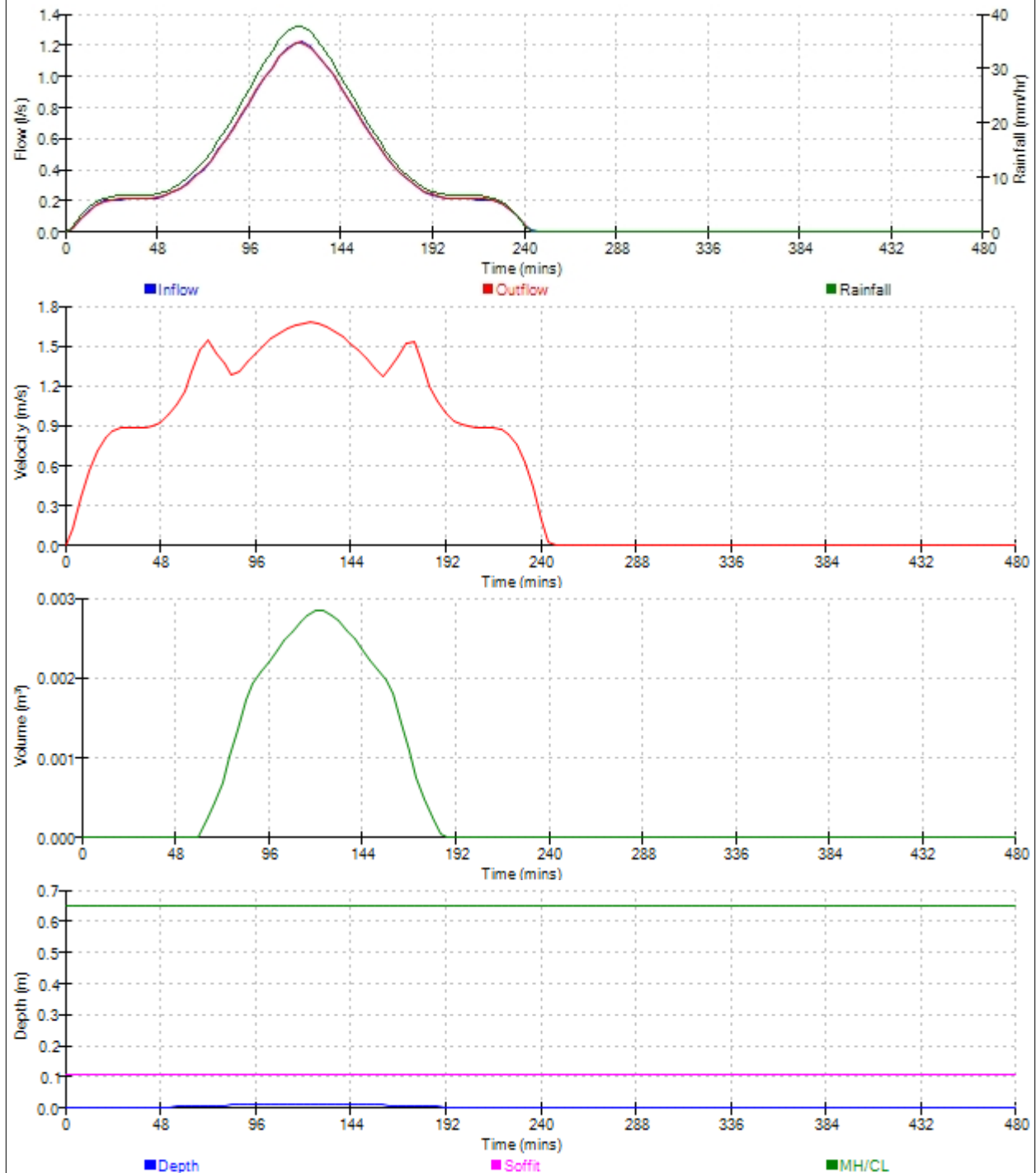


Graphs for Pipe 2.000 US/MH RE2 (Storm)
 240 minute 100 year Winter
 Status: OK

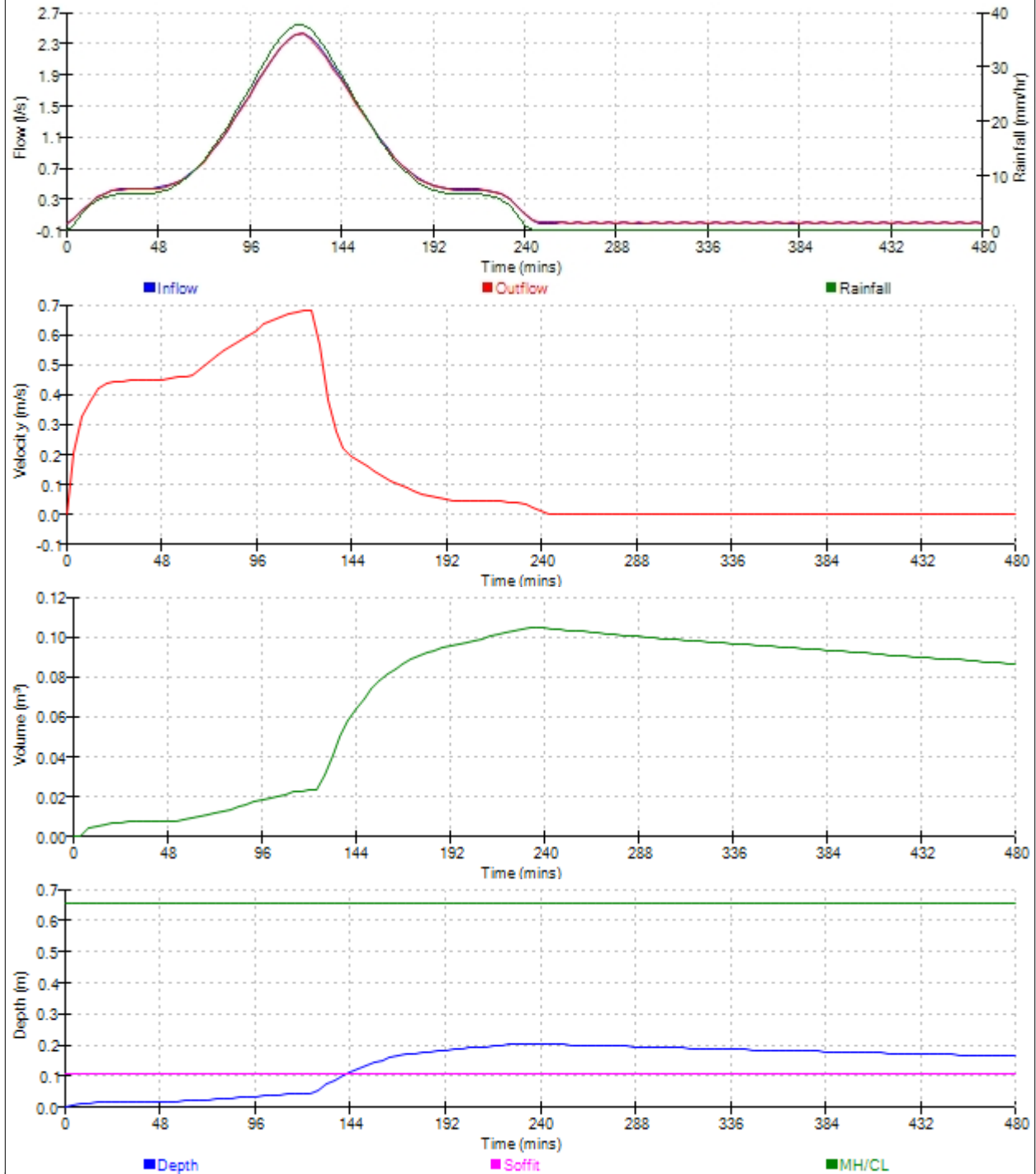


Dixon Hurst Kemp		Page 10
Victoria Court 22 St Pancras West Sussex PO19 7GD	34 Hurst Road, Hassocks Surface Water Drainage Design Simulation Rev03	
Date Nov 25	Designed by JS	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

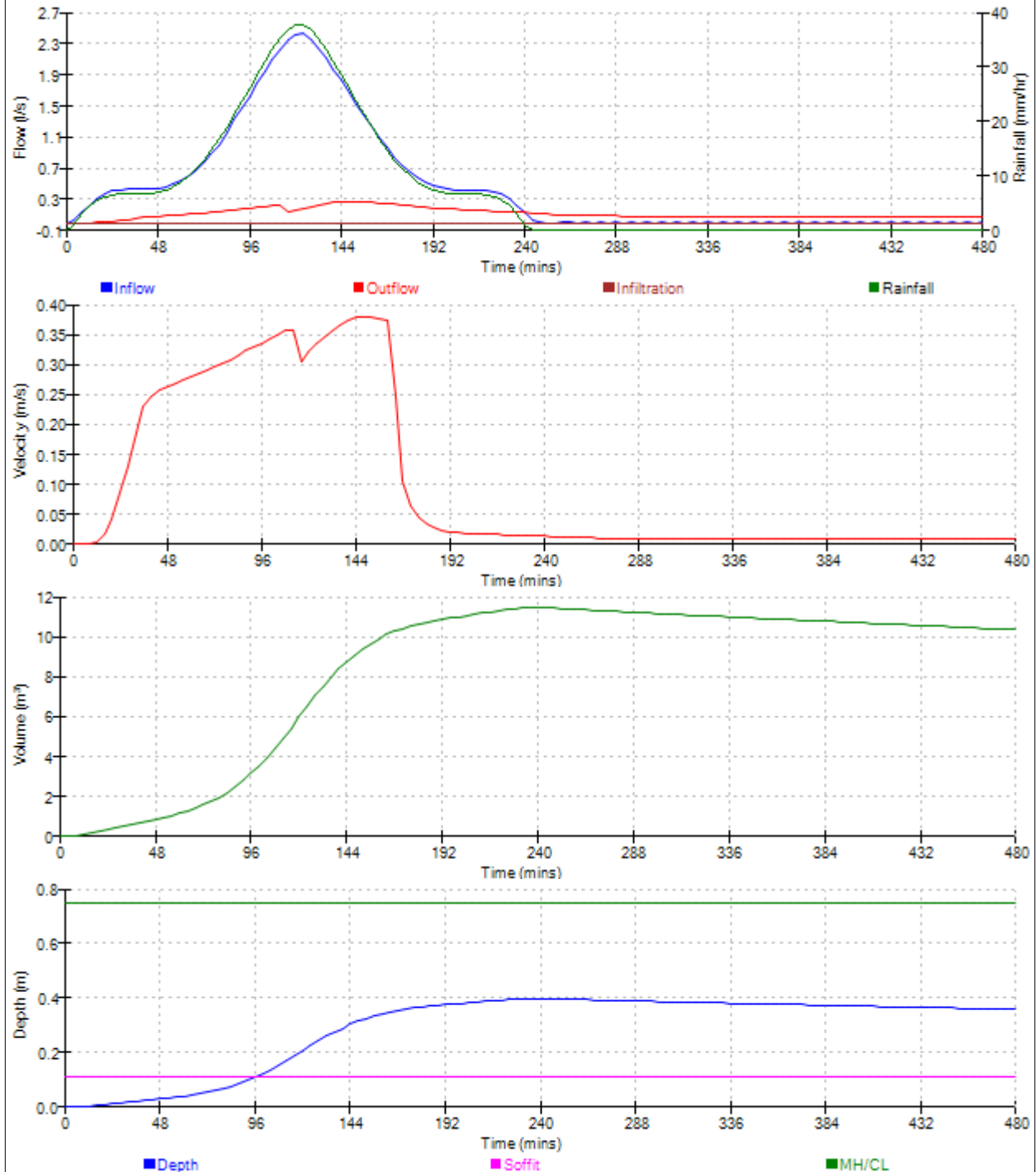
Graphs for Pipe 2.001 US/MH S2 (Storm)
240 minute 100 year winter
Status: OK



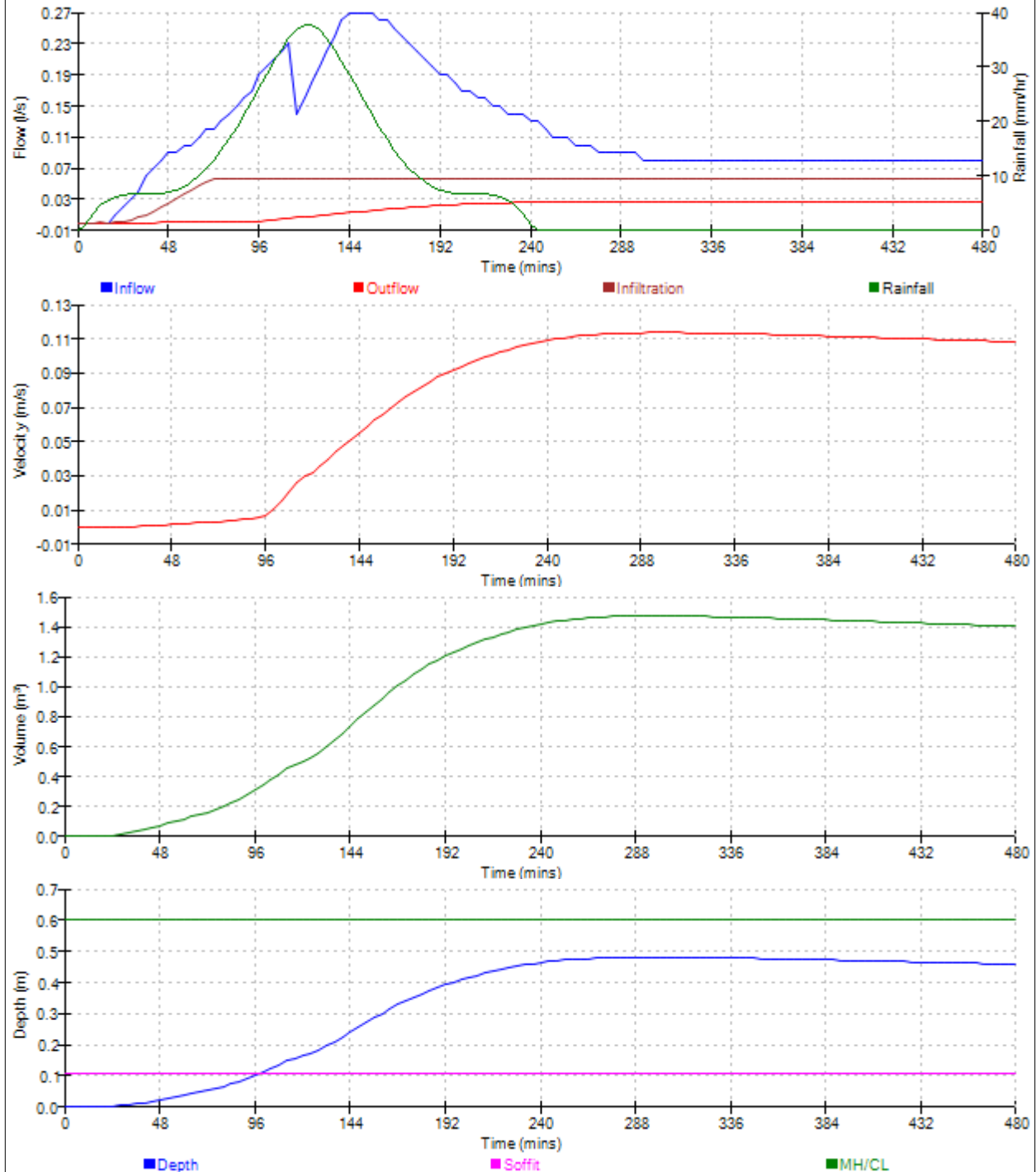
Graphs for Pipe 1.002 US/MH S3 (Storm)
240 minute 100 year winter
Status: SURCHARGED



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



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



Dixon Hurst Kemp		Page 14
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
240 minute 100 year winter
Average Rainfall Intensity 15.004 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)
4	65.400	63.497	-0.110	0.0	0.1	0.0
8	65.401	63.501	-0.109	0.0	0.2	0.0
12	65.401	63.505	-0.109	0.0	0.3	0.1
16	65.402	63.506	-0.108	0.0	0.4	0.1
20	65.402	63.506	-0.108	0.0	0.4	0.1
24	65.402	63.507	-0.108	0.0	0.4	0.1
28	65.402	63.507	-0.108	0.0	0.4	0.1
32	65.402	63.507	-0.108	0.0	0.4	0.1
36	65.402	63.507	-0.108	0.0	0.4	0.1
40	65.402	63.507	-0.108	0.0	0.4	0.1
44	65.402	63.507	-0.108	0.0	0.5	0.1
48	65.402	63.507	-0.108	0.0	0.5	0.1
52	65.402	63.507	-0.108	0.0	0.5	0.1
56	65.403	63.508	-0.107	0.0	0.5	0.1
60	65.403	63.509	-0.107	0.0	0.6	0.1
64	65.403	63.509	-0.107	0.0	0.7	0.2
68	65.404	63.510	-0.106	0.0	0.7	0.2
72	65.404	63.512	-0.106	0.0	0.8	0.2
76	65.405	63.513	-0.105	0.0	1.0	0.2
80	65.405	63.515	-0.105	0.0	1.1	0.3
84	65.406	63.516	-0.104	0.0	1.2	0.3
88	65.407	63.517	-0.103	0.0	1.4	0.3
92	65.408	63.519	-0.102	0.0	1.3	0.4
96	65.408	63.520	-0.102	0.0	1.2	0.4
100	65.409	63.521	-0.101	0.0	1.2	0.5
104	65.410	63.522	-0.100	0.0	1.1	0.5
108	65.411	63.523	-0.099	0.0	1.1	0.5
112	65.411	63.524	-0.099	0.0	1.1	0.6
116	65.411	63.525	-0.099	0.0	1.1	0.6
120	65.411	63.525	-0.099	0.0	1.2	0.6
124	65.411	63.526	-0.099	0.0	1.2	0.6
128	65.411	63.525	-0.099	0.0	1.2	0.6
132	65.411	63.528	-0.099	0.0	1.1	0.6
136	65.411	63.537	-0.099	0.0	1.1	0.5
140	65.410	63.551	-0.100	0.0	1.1	0.5
144	65.410	63.563	-0.100	0.0	1.2	0.5
148	65.409	63.574	-0.101	0.0	1.2	0.4
152	65.408	63.584	-0.102	0.0	1.3	0.4
156	65.407	63.592	-0.103	0.0	1.3	0.4
160	65.406	63.599	-0.104	0.0	1.3	0.3
164	65.406	63.606	-0.104	0.0	1.1	0.3
168	65.405	63.611	-0.105	0.0	1.0	0.2
172	65.404	63.615	-0.106	0.0	0.9	0.2
176	65.404	63.619	-0.106	0.0	0.8	0.2
180	65.403	63.622	-0.107	0.0	0.7	0.2
184	65.403	63.625	-0.107	0.0	0.6	0.1
188	65.403	63.627	-0.107	0.0	0.5	0.1
192	65.402	63.629	-0.108	0.0	0.5	0.1
196	65.402	63.632	-0.108	0.0	0.5	0.1
200	65.402	63.633	-0.108	0.0	0.5	0.1

Dixon Hurst Kemp		Page 16
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.000 US/MH RE1 (Storm)
240 minute 100 year winter
Average Rainfall Intensity 15.004 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)
404	65.400	63.620	-0.110	0.0	0.0	0.0
408	65.400	63.619	-0.110	0.0	0.0	0.0
412	65.400	63.619	-0.110	0.0	0.0	0.0
416	65.400	63.618	-0.110	0.0	0.0	0.0
420	65.400	63.618	-0.110	0.0	0.0	0.0
424	65.400	63.617	-0.110	0.0	0.0	0.0
428	65.400	63.616	-0.110	0.0	0.0	0.0
432	65.400	63.616	-0.110	0.0	0.0	0.0
436	65.400	63.615	-0.110	0.0	0.0	0.0
440	65.400	63.615	-0.110	0.0	0.0	0.0
444	65.400	63.614	-0.110	0.0	0.0	0.0
448	65.400	63.613	-0.110	0.0	0.0	0.0
452	65.400	63.613	-0.110	0.0	0.0	0.0
456	65.400	63.612	-0.110	0.0	0.0	0.0
460	65.400	63.611	-0.110	0.0	0.0	0.0
464	65.400	63.611	-0.110	0.0	0.0	0.0
468	65.400	63.610	-0.110	0.0	0.0	0.0
472	65.400	63.609	-0.110	0.0	0.0	0.0
476	65.400	63.609	-0.110	0.0	0.0	0.0
480	65.400	63.608	-0.110	0.0	0.0	0.0

Dixon Hurst Kemp		Page 17
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	
File COMBINED ATTENUATION ...	Checked by	
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Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
240 minute 100 year winter
Average Rainfall Intensity 15.004 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)
4	63.497	63.449	-0.108	0.0	0.1	0.0
8	63.501	63.456	-0.103	0.0	0.3	0.1
12	63.505	63.458	-0.099	0.0	0.3	0.1
16	63.506	63.460	-0.098	0.0	0.3	0.2
20	63.506	63.461	-0.098	0.0	0.3	0.2
24	63.507	63.461	-0.097	0.0	0.3	0.2
28	63.507	63.461	-0.097	0.0	0.3	0.2
32	63.507	63.462	-0.097	0.0	0.3	0.2
36	63.507	63.461	-0.097	0.0	0.3	0.2
40	63.507	63.462	-0.097	0.0	0.3	0.2
44	63.507	63.462	-0.097	0.0	0.4	0.2
48	63.507	63.462	-0.097	0.0	0.4	0.2
52	63.507	63.463	-0.097	0.0	0.4	0.2
56	63.508	63.463	-0.096	0.0	0.4	0.3
60	63.509	63.465	-0.096	0.0	0.4	0.3
64	63.509	63.466	-0.095	0.0	0.4	0.3
68	63.510	63.467	-0.094	0.0	0.4	0.4
72	63.512	63.469	-0.093	0.0	0.4	0.4
76	63.513	63.470	-0.091	0.0	0.4	0.5
80	63.515	63.472	-0.089	0.0	0.4	0.5
84	63.516	63.474	-0.088	0.0	0.4	0.6
88	63.517	63.476	-0.087	0.0	0.5	0.7
92	63.519	63.478	-0.086	0.0	0.5	0.8
96	63.520	63.480	-0.084	0.0	0.5	0.8
100	63.521	63.482	-0.083	0.0	0.5	0.9
104	63.522	63.483	-0.082	0.0	0.5	1.0
108	63.523	63.485	-0.081	0.0	0.5	1.1
112	63.524	63.486	-0.080	0.0	0.5	1.1
116	63.525	63.487	-0.079	0.0	0.5	1.2
120	63.525	63.488	-0.079	0.0	0.5	1.2
124	63.526	63.488	-0.079	0.0	0.5	1.2
128	63.525	63.501	-0.079	0.0	0.5	1.2
132	63.528	63.518	-0.076	0.0	0.5	1.1
136	63.537	63.533	-0.067	0.0	0.4	1.1
140	63.551	63.547	-0.053	0.0	0.2	1.0
144	63.563	63.559	-0.041	0.0	0.2	0.9
148	63.574	63.570	-0.030	0.0	0.1	0.8
152	63.584	63.580	-0.021	0.0	0.1	0.8
156	63.592	63.589	-0.012	0.0	0.1	0.7
160	63.599	63.597	-0.005	0.0	0.1	0.6
164	63.606	63.603	0.001	0.0	0.1	0.5
168	63.611	63.609	0.007	0.0	0.0	0.5
172	63.615	63.613	0.011	0.0	0.0	0.4
176	63.619	63.617	0.015	0.0	0.0	0.4
180	63.622	63.621	0.018	0.0	0.0	0.3
184	63.625	63.624	0.021	0.0	0.0	0.3
188	63.627	63.626	0.023	0.0	0.0	0.3
192	63.629	63.628	0.025	0.0	0.0	0.2
196	63.632	63.631	0.027	0.0	0.0	0.2
200	63.633	63.632	0.029	0.0	0.0	0.2

Dixon Hurst Kemp		Page 18
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
240 minute 100 year winter
Average Rainfall Intensity 15.004 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)
204	63.635	63.635	0.031	0.0	0.0	0.2
208	63.638	63.637	0.033	0.0	0.0	0.2
212	63.640	63.639	0.036	0.0	0.0	0.2
216	63.642	63.641	0.038	0.0	0.0	0.2
220	63.644	63.643	0.040	0.0	0.0	0.2
224	63.646	63.645	0.042	0.0	0.0	0.2
228	63.648	63.647	0.044	0.0	0.0	0.2
232	63.649	63.648	0.045	0.0	0.0	0.1
236	63.649	63.649	0.045	0.0	0.0	0.1
240	63.648	63.648	0.044	0.0	0.0	0.0
244	63.647	63.647	0.043	0.0	0.0	0.0
248	63.646	63.646	0.042	0.0	0.0	0.0
252	63.645	63.645	0.041	0.0	0.0	0.0
256	63.645	63.645	0.040	0.0	0.0	0.0
260	63.644	63.644	0.040	0.0	0.0	0.0
264	63.643	63.643	0.039	0.0	0.0	0.0
268	63.643	63.643	0.039	0.0	0.0	0.0
272	63.642	63.642	0.037	0.0	0.0	0.0
276	63.641	63.641	0.037	0.0	0.0	0.0
280	63.640	63.640	0.036	0.0	0.0	0.0
284	63.639	63.640	0.035	0.0	0.0	0.0
288	63.639	63.639	0.035	0.0	0.0	0.0
292	63.638	63.638	0.034	0.0	0.0	0.0
296	63.637	63.637	0.033	0.0	0.0	0.0
300	63.637	63.637	0.033	0.0	0.0	0.0
304	63.636	63.636	0.032	0.0	0.0	0.0
308	63.635	63.636	0.031	0.0	0.0	0.0
312	63.634	63.635	0.030	0.0	0.0	0.0
316	63.634	63.634	0.030	0.0	0.0	0.0
320	63.633	63.633	0.029	0.0	0.0	0.0
324	63.632	63.633	0.028	0.0	0.0	0.0
328	63.632	63.632	0.028	0.0	0.0	0.0
332	63.631	63.632	0.027	0.0	0.0	0.0
336	63.631	63.631	0.027	0.0	0.0	0.0
340	63.630	63.630	0.026	0.0	0.0	0.0
344	63.630	63.630	0.025	0.0	0.0	0.0
348	63.629	63.629	0.025	0.0	0.0	0.0
352	63.628	63.628	0.024	0.0	0.0	0.0
356	63.627	63.628	0.023	0.0	0.0	0.0
360	63.627	63.627	0.023	0.0	0.0	0.0
364	63.626	63.626	0.022	0.0	0.0	0.0
368	63.626	63.626	0.021	0.0	0.0	0.0
372	63.625	63.625	0.021	0.0	0.0	0.0
376	63.624	63.625	0.020	0.0	0.0	0.0
380	63.624	63.624	0.020	0.0	0.0	0.0
384	63.623	63.623	0.019	0.0	0.0	0.0
388	63.623	63.623	0.018	0.0	0.0	0.0
392	63.622	63.622	0.018	0.0	0.0	0.0
396	63.621	63.621	0.017	0.0	0.0	0.0
400	63.620	63.621	0.016	0.0	0.0	0.0

Dixon Hurst Kemp		Page 19
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.001 US/MH S1 (Storm)
240 minute 100 year winter
Average Rainfall Intensity 15.004 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)
404	63.620	63.620	0.016	0.0	0.0	0.0
408	63.619	63.620	0.015	0.0	0.0	0.0
412	63.619	63.619	0.014	0.0	0.0	0.0
416	63.618	63.618	0.014	0.0	0.0	0.0
420	63.618	63.618	0.014	0.0	0.0	0.0
424	63.617	63.617	0.013	0.0	0.0	0.0
428	63.616	63.616	0.012	0.0	0.0	0.0
432	63.616	63.616	0.012	0.0	0.0	0.0
436	63.615	63.615	0.011	0.0	0.0	0.0
440	63.615	63.615	0.011	0.0	0.0	0.0
444	63.614	63.614	0.010	0.0	0.0	0.0
448	63.613	63.613	0.009	0.0	0.0	0.0
452	63.613	63.613	0.009	0.0	0.0	0.0
456	63.612	63.612	0.008	0.0	0.0	0.0
460	63.611	63.612	0.007	0.0	0.0	0.0
464	63.611	63.611	0.007	0.0	0.0	0.0
468	63.610	63.610	0.006	0.0	0.0	0.0
472	63.609	63.610	0.005	0.0	0.0	0.0
476	63.609	63.609	0.005	0.0	0.0	0.0
480	63.608	63.609	0.004	0.0	0.0	0.0

Dixon Hurst Kemp		Page 21
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
240 minute 100 year winter
Average Rainfall Intensity 15.004 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)
204	65.403	65.004	-0.107	0.0	0.4	0.1
208	65.403	65.004	-0.107	0.0	0.4	0.1
212	65.403	65.004	-0.107	0.0	0.4	0.1
216	65.403	65.004	-0.107	0.0	0.4	0.1
220	65.403	65.004	-0.107	0.0	0.4	0.1
224	65.403	65.004	-0.107	0.0	0.4	0.1
228	65.402	65.003	-0.108	0.0	0.4	0.1
232	65.402	65.003	-0.108	0.0	0.3	0.1
236	65.401	65.002	-0.109	0.0	0.2	0.1
240	65.401	65.001	-0.109	0.0	0.1	0.0
244	65.400	65.000	-0.110	0.0	0.0	0.0
248	65.400	65.000	-0.110	0.0	0.0	0.0
252	65.400	65.000	-0.110	0.0	0.0	0.0
256	65.400	65.000	-0.110	0.0	0.0	0.0
260	65.400	65.000	-0.110	0.0	0.0	0.0
264	65.400	65.000	-0.110	0.0	0.0	0.0
268	65.400	65.000	-0.110	0.0	0.0	0.0
272	65.400	65.000	-0.110	0.0	0.0	0.0
276	65.400	65.000	-0.110	0.0	0.0	0.0
280	65.400	65.000	-0.110	0.0	0.0	0.0
284	65.400	65.000	-0.110	0.0	0.0	0.0
288	65.400	65.000	-0.110	0.0	0.0	0.0
292	65.400	65.000	-0.110	0.0	0.0	0.0
296	65.400	65.000	-0.110	0.0	0.0	0.0
300	65.400	65.000	-0.110	0.0	0.0	0.0
304	65.400	65.000	-0.110	0.0	0.0	0.0
308	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
316	65.400	65.000	-0.110	0.0	0.0	0.0
320	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
328	65.400	65.000	-0.110	0.0	0.0	0.0
332	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
340	65.400	65.000	-0.110	0.0	0.0	0.0
344	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
352	65.400	65.000	-0.110	0.0	0.0	0.0
356	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
364	65.400	65.000	-0.110	0.0	0.0	0.0
368	65.400	65.000	-0.110	0.0	0.0	0.0
372	65.400	65.000	-0.110	0.0	0.0	0.0
376	65.400	65.000	-0.110	0.0	0.0	0.0
380	65.400	65.000	-0.110	0.0	0.0	0.0
384	65.400	65.000	-0.110	0.0	0.0	0.0
388	65.400	65.000	-0.110	0.0	0.0	0.0
392	65.400	65.000	-0.110	0.0	0.0	0.0
396	65.400	65.000	-0.110	0.0	0.0	0.0
400	65.400	65.000	-0.110	0.0	0.0	0.0

Dixon Hurst Kemp		Page 22
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 2.000 US/MH RE2 (Storm)
240 minute 100 year winter
Average Rainfall Intensity 15.004 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)
404	65.400	65.000	-0.110	0.0	0.0	0.0
408	65.400	65.000	-0.110	0.0	0.0	0.0
412	65.400	65.000	-0.110	0.0	0.0	0.0
416	65.400	65.000	-0.110	0.0	0.0	0.0
420	65.400	65.000	-0.110	0.0	0.0	0.0
424	65.400	65.000	-0.110	0.0	0.0	0.0
428	65.400	65.000	-0.110	0.0	0.0	0.0
432	65.400	65.000	-0.110	0.0	0.0	0.0
436	65.400	65.000	-0.110	0.0	0.0	0.0
440	65.400	65.000	-0.110	0.0	0.0	0.0
444	65.400	65.000	-0.110	0.0	0.0	0.0
448	65.400	65.000	-0.110	0.0	0.0	0.0
452	65.400	65.000	-0.110	0.0	0.0	0.0
456	65.400	65.000	-0.110	0.0	0.0	0.0
460	65.400	65.000	-0.110	0.0	0.0	0.0
464	65.400	65.000	-0.110	0.0	0.0	0.0
468	65.400	65.000	-0.110	0.0	0.0	0.0
472	65.400	65.000	-0.110	0.0	0.0	0.0
476	65.400	65.000	-0.110	0.0	0.0	0.0
480	65.400	65.000	-0.110	0.0	0.0	0.0

Dixon Hurst Kemp		Page 24
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
240 minute 100 year winter
Average Rainfall Intensity 15.004 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)
204	65.004	63.635	-0.106	0.0	0.9	0.2
208	65.004	63.637	-0.106	0.0	0.9	0.2
212	65.004	63.639	-0.106	0.0	0.9	0.2
216	65.004	63.641	-0.106	0.0	0.9	0.2
220	65.004	63.643	-0.106	0.0	0.9	0.2
224	65.004	63.645	-0.106	0.0	0.8	0.2
228	65.003	63.647	-0.107	0.0	0.8	0.2
232	65.003	63.648	-0.107	0.0	0.6	0.2
236	65.002	63.649	-0.108	0.0	0.4	0.1
240	65.001	63.648	-0.109	0.0	0.2	0.0
244	65.000	63.647	-0.110	0.0	0.0	0.0
248	65.000	63.646	-0.110	0.0	0.0	0.0
252	65.000	63.645	-0.110	0.0	0.0	0.0
256	65.000	63.645	-0.110	0.0	0.0	0.0
260	65.000	63.644	-0.110	0.0	0.0	0.0
264	65.000	63.643	-0.110	0.0	0.0	0.0
268	65.000	63.643	-0.110	0.0	0.0	0.0
272	65.000	63.642	-0.110	0.0	0.0	0.0
276	65.000	63.641	-0.110	0.0	0.0	0.0
280	65.000	63.640	-0.110	0.0	0.0	0.0
284	65.000	63.640	-0.110	0.0	0.0	0.0
288	65.000	63.639	-0.110	0.0	0.0	0.0
292	65.000	63.638	-0.110	0.0	0.0	0.0
296	65.000	63.637	-0.110	0.0	0.0	0.0
300	65.000	63.637	-0.110	0.0	0.0	0.0
304	65.000	63.636	-0.110	0.0	0.0	0.0
308	65.000	63.636	-0.110	0.0	0.0	0.0
312	65.000	63.635	-0.110	0.0	0.0	0.0
316	65.000	63.634	-0.110	0.0	0.0	0.0
320	65.000	63.633	-0.110	0.0	0.0	0.0
324	65.000	63.633	-0.110	0.0	0.0	0.0
328	65.000	63.632	-0.110	0.0	0.0	0.0
332	65.000	63.632	-0.110	0.0	0.0	0.0
336	65.000	63.631	-0.110	0.0	0.0	0.0
340	65.000	63.630	-0.110	0.0	0.0	0.0
344	65.000	63.630	-0.110	0.0	0.0	0.0
348	65.000	63.629	-0.110	0.0	0.0	0.0
352	65.000	63.628	-0.110	0.0	0.0	0.0
356	65.000	63.628	-0.110	0.0	0.0	0.0
360	65.000	63.627	-0.110	0.0	0.0	0.0
364	65.000	63.626	-0.110	0.0	0.0	0.0
368	65.000	63.626	-0.110	0.0	0.0	0.0
372	65.000	63.625	-0.110	0.0	0.0	0.0
376	65.000	63.625	-0.110	0.0	0.0	0.0
380	65.000	63.624	-0.110	0.0	0.0	0.0
384	65.000	63.623	-0.110	0.0	0.0	0.0
388	65.000	63.623	-0.110	0.0	0.0	0.0
392	65.000	63.622	-0.110	0.0	0.0	0.0
396	65.000	63.621	-0.110	0.0	0.0	0.0
400	65.000	63.621	-0.110	0.0	0.0	0.0

Dixon Hurst Kemp		Page 25
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 2.001 US/MH S2 (Storm)
240 minute 100 year winter
Average Rainfall Intensity 15.004 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)
404	65.000	63.620	-0.110	0.0	0.0	0.0
408	65.000	63.620	-0.110	0.0	0.0	0.0
412	65.000	63.619	-0.110	0.0	0.0	0.0
416	65.000	63.618	-0.110	0.0	0.0	0.0
420	65.000	63.618	-0.110	0.0	0.0	0.0
424	65.000	63.617	-0.110	0.0	0.0	0.0
428	65.000	63.616	-0.110	0.0	0.0	0.0
432	65.000	63.616	-0.110	0.0	0.0	0.0
436	65.000	63.615	-0.110	0.0	0.0	0.0
440	65.000	63.615	-0.110	0.0	0.0	0.0
444	65.000	63.614	-0.110	0.0	0.0	0.0
448	65.000	63.613	-0.110	0.0	0.0	0.0
452	65.000	63.613	-0.110	0.0	0.0	0.0
456	65.000	63.612	-0.110	0.0	0.0	0.0
460	65.000	63.612	-0.110	0.0	0.0	0.0
464	65.000	63.611	-0.110	0.0	0.0	0.0
468	65.000	63.610	-0.110	0.0	0.0	0.0
472	65.000	63.610	-0.110	0.0	0.0	0.0
476	65.000	63.609	-0.110	0.0	0.0	0.0
480	65.000	63.609	-0.110	0.0	0.0	0.0

Dixon Hurst Kemp		Page 26
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
240 minute 100 year winter
Average Rainfall Intensity 15.004 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)
4	63.449	63.250	-0.105	0.0	0.2	0.0
8	63.456	63.251	-0.098	0.0	0.3	0.2
12	63.458	63.253	-0.096	0.0	0.4	0.2
16	63.460	63.256	-0.094	0.0	0.4	0.3
20	63.461	63.259	-0.093	0.0	0.4	0.4
24	63.461	63.262	-0.093	0.0	0.4	0.4
28	63.461	63.265	-0.093	0.0	0.4	0.4
32	63.462	63.268	-0.093	0.0	0.4	0.4
36	63.461	63.271	-0.093	0.0	0.4	0.4
40	63.462	63.274	-0.093	0.0	0.4	0.4
44	63.462	63.277	-0.092	0.0	0.4	0.4
48	63.462	63.280	-0.092	0.0	0.4	0.4
52	63.463	63.283	-0.092	0.0	0.5	0.5
56	63.463	63.287	-0.091	0.0	0.5	0.5
60	63.465	63.290	-0.090	0.0	0.5	0.5
64	63.466	63.294	-0.088	0.0	0.5	0.6
68	63.467	63.299	-0.087	0.0	0.5	0.7
72	63.469	63.304	-0.085	0.0	0.5	0.8
76	63.470	63.310	-0.084	0.0	0.5	0.9
80	63.472	63.318	-0.082	0.0	0.5	1.0
84	63.474	63.327	-0.080	0.0	0.6	1.2
88	63.476	63.337	-0.078	0.0	0.6	1.3
92	63.478	63.348	-0.076	0.0	0.6	1.5
96	63.480	63.360	-0.074	0.0	0.6	1.6
100	63.482	63.373	-0.072	0.0	0.6	1.8
104	63.483	63.387	-0.071	0.0	0.6	2.0
108	63.485	63.403	-0.069	0.0	0.7	2.1
112	63.486	63.420	-0.068	0.0	0.7	2.2
116	63.487	63.439	-0.067	0.0	0.7	2.3
120	63.488	63.457	-0.066	0.0	0.7	2.4
124	63.488	63.476	-0.066	0.0	0.7	2.4
128	63.501	63.494	-0.053	0.0	0.6	2.3
132	63.518	63.511	-0.036	0.0	0.4	2.2
136	63.533	63.526	-0.021	0.0	0.3	2.1
140	63.547	63.540	-0.008	0.0	0.2	2.0
144	63.559	63.553	0.005	0.0	0.2	1.8
148	63.570	63.565	0.016	0.0	0.2	1.7
152	63.580	63.575	0.026	0.0	0.2	1.5
156	63.589	63.585	0.035	0.0	0.1	1.4
160	63.597	63.593	0.043	0.0	0.1	1.2
164	63.603	63.600	0.049	0.0	0.1	1.1
168	63.609	63.606	0.055	0.0	0.1	1.0
172	63.613	63.611	0.059	0.0	0.1	0.8
176	63.617	63.615	0.063	0.0	0.1	0.7
180	63.621	63.619	0.067	0.0	0.1	0.7
184	63.624	63.622	0.070	0.0	0.1	0.6
188	63.626	63.624	0.072	0.0	0.1	0.5
192	63.628	63.627	0.074	0.0	0.1	0.5
196	63.631	63.629	0.076	0.0	0.0	0.4
200	63.632	63.631	0.078	0.0	0.0	0.4

Dixon Hurst Kemp		Page 27
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
240 minute 100 year winter
Average Rainfall Intensity 15.004 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)
204	63.635	63.633	0.080	0.0	0.0	0.4
208	63.637	63.635	0.083	0.0	0.0	0.4
212	63.639	63.637	0.085	0.0	0.0	0.4
216	63.641	63.640	0.087	0.0	0.0	0.4
220	63.643	63.642	0.089	0.0	0.0	0.4
224	63.645	63.644	0.091	0.0	0.0	0.4
228	63.647	63.646	0.093	0.0	0.0	0.4
232	63.648	63.647	0.094	0.0	0.0	0.3
236	63.649	63.648	0.095	0.0	0.0	0.2
240	63.648	63.648	0.094	0.0	0.0	0.1
244	63.647	63.647	0.093	0.0	0.0	0.0
248	63.646	63.646	0.092	0.0	0.0	0.0
252	63.645	63.646	0.091	0.0	0.0	0.0
256	63.645	63.645	0.091	0.0	0.0	0.0
260	63.644	63.644	0.090	0.0	0.0	0.0
264	63.643	63.643	0.089	0.0	0.0	0.0
268	63.643	63.643	0.089	0.0	0.0	0.0
272	63.642	63.642	0.088	0.0	0.0	0.0
276	63.641	63.641	0.087	0.0	0.0	0.0
280	63.640	63.640	0.086	0.0	0.0	0.0
284	63.640	63.640	0.086	0.0	0.0	0.0
288	63.639	63.639	0.085	0.0	0.0	0.0
292	63.638	63.638	0.084	0.0	0.0	0.0
296	63.637	63.638	0.083	0.0	0.0	0.0
300	63.637	63.637	0.082	0.0	0.0	0.0
304	63.636	63.636	0.082	0.0	0.0	0.0
308	63.636	63.636	0.081	0.0	0.0	0.0
312	63.635	63.635	0.081	0.0	0.0	0.0
316	63.634	63.634	0.080	0.0	0.0	0.0
320	63.633	63.634	0.079	0.0	0.0	0.0
324	63.633	63.633	0.079	0.0	0.0	0.0
328	63.632	63.632	0.078	0.0	0.0	0.0
332	63.632	63.632	0.078	0.0	0.0	0.0
336	63.631	63.631	0.077	0.0	0.0	0.0
340	63.630	63.630	0.076	0.0	0.0	0.0
344	63.630	63.630	0.075	0.0	0.0	0.0
348	63.629	63.629	0.075	0.0	0.0	0.0
352	63.628	63.628	0.074	0.0	0.0	0.0
356	63.628	63.628	0.074	0.0	0.0	0.0
360	63.627	63.627	0.073	0.0	0.0	0.0
364	63.626	63.627	0.072	0.0	0.0	0.0
368	63.626	63.626	0.072	0.0	0.0	0.0
372	63.625	63.625	0.071	0.0	0.0	0.0
376	63.625	63.625	0.070	0.0	0.0	0.0
380	63.624	63.624	0.070	0.0	0.0	0.0
384	63.623	63.623	0.069	0.0	0.0	0.0
388	63.623	63.623	0.069	0.0	0.0	0.0
392	63.622	63.622	0.068	0.0	0.0	0.0
396	63.621	63.622	0.067	0.0	0.0	0.0
400	63.621	63.621	0.067	0.0	0.0	0.0

Dixon Hurst Kemp		Page 28
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.002 US/MH S3 (Storm)
240 minute 100 year winter
Average Rainfall Intensity 15.004 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)
404	63.620	63.620	0.066	0.0	0.0	0.0
408	63.620	63.620	0.065	0.0	0.0	0.0
412	63.619	63.619	0.065	0.0	0.0	0.0
416	63.618	63.619	0.064	0.0	0.0	0.0
420	63.618	63.618	0.064	0.0	0.0	0.0
424	63.617	63.617	0.063	0.0	0.0	0.0
428	63.616	63.617	0.062	0.0	0.0	0.0
432	63.616	63.616	0.062	0.0	0.0	0.0
436	63.615	63.615	0.061	0.0	0.0	0.0
440	63.615	63.615	0.060	0.0	0.0	0.0
444	63.614	63.614	0.060	0.0	0.0	0.0
448	63.613	63.614	0.059	0.0	0.0	0.0
452	63.613	63.613	0.059	0.0	0.0	0.0
456	63.612	63.612	0.058	0.0	0.0	0.0
460	63.612	63.612	0.058	0.0	0.0	0.0
464	63.611	63.611	0.057	0.0	0.0	0.0
468	63.610	63.611	0.056	0.0	0.0	0.0
472	63.610	63.610	0.056	0.0	0.0	0.0
476	63.609	63.609	0.055	0.0	0.0	0.0
480	63.609	63.609	0.054	0.0	0.0	0.0

Dixon Hurst Kemp		Page 31
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.003 US/MH S4 (Storm)
240 minute 100 year winter
Average Rainfall Intensity 15.004 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)
404	63.620	63.570	0.260	0.0	0.0	0.1
408	63.620	63.569	0.260	0.0	0.0	0.1
412	63.619	63.568	0.259	0.0	0.0	0.1
416	63.619	63.568	0.259	0.0	0.0	0.1
420	63.618	63.567	0.258	0.0	0.0	0.1
424	63.617	63.567	0.257	0.0	0.0	0.1
428	63.617	63.566	0.257	0.0	0.0	0.1
432	63.616	63.565	0.256	0.0	0.0	0.1
436	63.615	63.565	0.255	0.0	0.0	0.1
440	63.615	63.564	0.255	0.0	0.0	0.1
444	63.614	63.564	0.254	0.0	0.0	0.1
448	63.614	63.563	0.254	0.0	0.0	0.1
452	63.613	63.563	0.253	0.0	0.0	0.1
456	63.612	63.562	0.252	0.0	0.0	0.1
460	63.612	63.561	0.252	0.0	0.0	0.1
464	63.611	63.561	0.251	0.0	0.0	0.1
468	63.611	63.560	0.251	0.0	0.0	0.1
472	63.610	63.560	0.250	0.0	0.0	0.1
476	63.609	63.559	0.249	0.0	0.0	0.1
480	63.609	63.558	0.249	0.0	0.0	0.1

Dixon Hurst Kemp		Page 32
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 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)
4	63.100	63.096	-0.110	0.0	0.0	0.0
8	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
16	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
24	63.102	63.096	-0.108	0.0	0.0	0.0
28	63.105	63.096	-0.105	0.0	0.0	0.0
32	63.107	63.096	-0.103	0.0	0.0	0.0
36	63.111	63.096	-0.099	0.0	0.0	0.0
40	63.115	63.096	-0.095	0.0	0.0	0.0
44	63.120	63.096	-0.090	0.0	0.0	0.0
48	63.124	63.096	-0.086	0.0	0.0	0.0
52	63.129	63.096	-0.081	0.0	0.0	0.0
56	63.134	63.096	-0.076	0.0	0.0	0.0
60	63.139	63.096	-0.071	0.0	0.0	0.0
64	63.143	63.096	-0.067	0.0	0.0	0.0
68	63.148	63.096	-0.062	0.0	0.0	0.0
72	63.154	63.096	-0.056	0.0	0.0	0.0
76	63.159	63.096	-0.051	0.0	0.0	0.0
80	63.166	63.096	-0.044	0.0	0.0	0.0
84	63.174	63.096	-0.036	0.0	0.0	0.0
88	63.183	63.096	-0.027	0.0	0.0	0.0
92	63.192	63.096	-0.018	0.0	0.0	0.0
96	63.201	63.096	-0.009	0.0	0.0	0.0
100	63.212	63.096	0.002	0.0	0.0	0.0
104	63.224	63.096	0.014	0.0	0.0	0.0
108	63.236	63.096	0.026	0.0	0.0	0.0
112	63.251	63.096	0.041	0.0	0.0	0.0
116	63.256	63.096	0.046	0.0	0.0	0.0
120	63.264	63.096	0.054	0.0	0.0	0.0
124	63.273	63.096	0.063	0.0	0.0	0.0
128	63.284	63.096	0.074	0.0	0.0	0.0
132	63.296	63.096	0.086	0.0	0.0	0.0
136	63.309	63.096	0.099	0.0	0.0	0.0
140	63.324	63.096	0.114	0.0	0.1	0.0
144	63.340	63.096	0.130	0.0	0.1	0.0
148	63.356	63.096	0.146	0.0	0.1	0.0
152	63.372	63.096	0.162	0.0	0.1	0.0
156	63.387	63.096	0.177	0.0	0.1	0.0
160	63.402	63.096	0.192	0.0	0.1	0.0
164	63.416	63.096	0.206	0.0	0.1	0.0
168	63.429	63.096	0.219	0.0	0.1	0.0
172	63.442	63.096	0.232	0.0	0.1	0.0
176	63.454	63.096	0.244	0.0	0.1	0.0
180	63.465	63.096	0.255	0.0	0.1	0.0
184	63.475	63.096	0.265	0.0	0.1	0.0
188	63.485	63.096	0.275	0.0	0.1	0.0
192	63.494	63.096	0.284	0.0	0.1	0.0
196	63.502	63.096	0.292	0.0	0.1	0.0
200	63.510	63.096	0.300	0.0	0.1	0.0

Dixon Hurst Kemp		Page 33
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
240 minute 100 year Winter
Average Rainfall Intensity 15.004 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)
204	63.517	63.096	0.307	0.0	0.1	0.0
208	63.524	63.096	0.314	0.0	0.1	0.0
212	63.530	63.096	0.320	0.0	0.1	0.0
216	63.536	63.096	0.326	0.0	0.1	0.0
220	63.542	63.096	0.332	0.0	0.1	0.0
224	63.547	63.096	0.337	0.0	0.1	0.0
228	63.552	63.096	0.342	0.0	0.1	0.0
232	63.556	63.096	0.346	0.0	0.1	0.0
236	63.560	63.096	0.350	0.0	0.1	0.0
240	63.563	63.096	0.353	0.0	0.1	0.0
244	63.567	63.096	0.357	0.0	0.1	0.0
248	63.569	63.096	0.359	0.0	0.1	0.0
252	63.572	63.096	0.362	0.0	0.1	0.0
256	63.574	63.096	0.364	0.0	0.1	0.0
260	63.575	63.096	0.365	0.0	0.1	0.0
264	63.577	63.096	0.367	0.0	0.1	0.0
268	63.578	63.096	0.368	0.0	0.1	0.0
272	63.579	63.096	0.369	0.0	0.1	0.0
276	63.580	63.096	0.370	0.0	0.1	0.0
280	63.580	63.096	0.370	0.0	0.1	0.0
284	63.581	63.096	0.371	0.0	0.1	0.0
288	63.581	63.096	0.371	0.0	0.1	0.0
292	63.581	63.096	0.371	0.0	0.1	0.0
296	63.581	63.096	0.371	0.0	0.1	0.0
300	63.581	63.096	0.371	0.0	0.1	0.0
304	63.581	63.096	0.371	0.0	0.1	0.0
308	63.581	63.096	0.371	0.0	0.1	0.0
312	63.581	63.096	0.371	0.0	0.1	0.0
316	63.581	63.096	0.371	0.0	0.1	0.0
320	63.580	63.096	0.370	0.0	0.1	0.0
324	63.580	63.096	0.370	0.0	0.1	0.0
328	63.580	63.096	0.370	0.0	0.1	0.0
332	63.579	63.096	0.369	0.0	0.1	0.0
336	63.579	63.096	0.369	0.0	0.1	0.0
340	63.578	63.096	0.368	0.0	0.1	0.0
344	63.578	63.096	0.368	0.0	0.1	0.0
348	63.577	63.096	0.367	0.0	0.1	0.0
352	63.577	63.096	0.367	0.0	0.1	0.0
356	63.576	63.096	0.366	0.0	0.1	0.0
360	63.576	63.096	0.366	0.0	0.1	0.0
364	63.575	63.096	0.365	0.0	0.1	0.0
368	63.575	63.096	0.365	0.0	0.1	0.0
372	63.574	63.096	0.364	0.0	0.1	0.0
376	63.574	63.096	0.364	0.0	0.1	0.0
380	63.573	63.096	0.363	0.0	0.1	0.0
384	63.572	63.096	0.362	0.0	0.1	0.0
388	63.572	63.096	0.362	0.0	0.1	0.0
392	63.571	63.096	0.361	0.0	0.1	0.0
396	63.571	63.096	0.361	0.0	0.1	0.0
400	63.570	63.096	0.360	0.0	0.1	0.0

Dixon Hurst Kemp		Page 34
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	
File COMBINED ATTENUATION ...	Checked by	
Elstree Computing Ltd	Network W.12.6	

Flows and Levels for Pipe 1.004 US/MH RAIN GARDEN (Storm)
240 minute 100 year winter
Average Rainfall Intensity 15.004 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)
404	63.570	63.096	0.360	0.0	0.1	0.0
408	63.569	63.096	0.359	0.0	0.1	0.0
412	63.568	63.096	0.358	0.0	0.1	0.0
416	63.568	63.096	0.358	0.0	0.1	0.0
420	63.567	63.096	0.357	0.0	0.1	0.0
424	63.567	63.096	0.357	0.0	0.1	0.0
428	63.566	63.096	0.356	0.0	0.1	0.0
432	63.565	63.096	0.355	0.0	0.1	0.0
436	63.565	63.096	0.355	0.0	0.1	0.0
440	63.564	63.096	0.354	0.0	0.1	0.0
444	63.564	63.096	0.354	0.0	0.1	0.0
448	63.563	63.096	0.353	0.0	0.1	0.0
452	63.563	63.096	0.353	0.0	0.1	0.0
456	63.562	63.096	0.352	0.0	0.1	0.0
460	63.561	63.096	0.351	0.0	0.1	0.0
464	63.561	63.096	0.351	0.0	0.1	0.0
468	63.560	63.096	0.350	0.0	0.1	0.0
472	63.560	63.096	0.350	0.0	0.1	0.0
476	63.559	63.096	0.349	0.0	0.1	0.0
480	63.558	63.096	0.348	0.0	0.1	0.0