

APPENDIX F: Open Spaces - Topographic Survey



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A1 ORIGINAL

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NOTES:

1. This drawing is a combination of the following information:

- Topographic Survey undertaken by Subvision Survey in March 2022, drawing reference SS-PH-013.
- Topographic Survey undertaken by WYG 2019 drawing reference GGL/A044029/LAY/01
- Drone Topographic Survey undertaken by Survey Solutions in Novemeber 2024 drawing reference 71849BWLS-02_13.
- Mayer Brown Drainage design undertaken in Novemeber 2023 drawing reference PHLITTLEMAIN.2/20-1 to 3.

KEY TO HEALTH AND SAFETY SYMBOLS

-  INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION.
-  INDICATES A RESIDUAL RISK FOR INFORMATION.
-  INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION.
-  INDICATES A RESIDUAL RISK AS A WARNING.

FOR INFORMATION
NOT FOR CONSTRUCTION

P1	Initial Issue. (TC)	SF	27/11/2025
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rev.	amendment	checked	date
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client
PERSIMMON HOMES THAMES VALLEY

project
PHASE 6A
LITTLEHAMPTON

scale 1:1250	drawn by TC	checked by SF
date NOVEMBER 2025	cad file 100.DWG	

title
TOPOGRAPHIC SURVEY AND EXISTING DRAINAGE

Mayer Brown Limited jobcode -	suitability -	revision P1
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drawing number
PHLITTLEPH6A.2/100

APPENDIX G: Open Spaces - Drainage General Arrangement Plans

APPENDIX H: Open Spaces – MBL Levels & Engineering Plans

APPENDIX K: Open Spaces - Windes Calculations

Mayer Brown Limited				Page 1				
Lion House Oriental Road Woking, GU22 8AR			Hampton Park Open Spaces RMA North Car Park					
Date 01/12/2025 File Car Park North Catchmen...			Designed by SF Checked by SF					
Innovyze			Source Control 2020.1					
Summary of Results for 100 year Return Period (+30%)								
Half Drain Time : 17 minutes.								
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Outflow (l/s)	Max Volume (m³)	Status	
15 min Winter	1.910	0.310	0.0	18.7	18.7	27.9	Flood	Risk
30 min Winter	1.940	0.340	0.0	19.0	19.0	30.6	Flood	Risk
60 min Winter	1.918	0.318	0.0	18.8	18.8	28.6	Flood	Risk
120 min Winter	1.792	0.192	0.0	17.2	17.2	17.3	Flood	Risk
180 min Winter	1.698	0.098	0.0	16.0	16.0	8.8		0 K
240 min Winter	1.633	0.033	0.0	15.1	15.1	2.9		0 K
360 min Winter	1.600	0.000	0.0	12.7	12.7	0.0		0 K
480 min Winter	1.600	0.000	0.0	10.1	10.1	0.0		0 K
600 min Winter	1.600	0.000	0.0	8.5	8.5	0.0		0 K
720 min Winter	1.600	0.000	0.0	7.3	7.3	0.0		0 K
960 min Winter	1.600	0.000	0.0	5.9	5.9	0.0		0 K
1440 min Winter	1.600	0.000	0.0	4.3	4.3	0.0		0 K
2160 min Winter	1.600	0.000	0.0	3.1	3.1	0.0		0 K
2880 min Winter	1.600	0.000	0.0	2.5	2.5	0.0		0 K
4320 min Winter	1.600	0.000	0.0	1.9	1.9	0.0		0 K
5760 min Winter	1.600	0.000	0.0	1.5	1.5	0.0		0 K
7200 min Winter	1.600	0.000	0.0	1.3	1.3	0.0		0 K
8640 min Winter	1.600	0.000	0.0	1.2	1.2	0.0		0 K
10080 min Winter	1.600	0.000	0.0	1.1	1.1	0.0		0 K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)				
15 min Winter	138.320	0.0	42.6	15				
30 min Winter	92.820	0.0	57.9	25				
60 min Winter	59.280	0.0	72.6	44				
120 min Winter	34.450	0.0	85.0	78				
180 min Winter	25.086	0.0	93.4	110				
240 min Winter	20.020	0.0	99.5	136				
360 min Winter	14.538	0.0	108.2	0				
480 min Winter	11.590	0.0	115.0	0				
600 min Winter	9.725	0.0	120.6	0				
720 min Winter	8.428	0.0	125.4	0				
960 min Winter	6.729	0.0	133.5	0				
1440 min Winter	4.913	0.0	146.2	0				
2160 min Winter	3.605	0.0	160.9	0				
2880 min Winter	2.906	0.0	173.0	0				
4320 min Winter	2.157	0.0	192.5	0				
5760 min Winter	1.759	0.0	209.4	0				
7200 min Winter	1.511	0.0	224.8	0				
8640 min Winter	1.342	0.0	239.7	0				
10080 min Winter	1.221	0.0	254.4	0				
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Mayer Brown Limited		Page 2
Lion House Oriental Road Woking, GU22 8AR	Hampton Park Open Spaces RMA North Car Park	
Date 01/12/2025	Designed by SF	
File Car Park North Catchmen...	Checked by SF	
Innovyze		Source Control 2020.1

Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 502950 104450 TQ 02950 04450
Data Type	Catchment
Summer Storms	No
Winter Storms	Yes
Cv (Summer)	0.750
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+30

Time Area Diagram

Total Area (ha) 0.124

Time (mins)		Area
From:	To:	(ha)
0	4	0.124

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Mayer Brown Limited		Page 3																		
Lion House Oriental Road Woking, GU22 8AR	Hampton Park Open Spaces RMA North Car Park																			
Date 01/12/2025	Designed by SF																			
File Car Park North Catchmen...	Checked by SF																			
Innovyze	Source Control 2020.1																			
Model Details Storage is Online Cover Level (m) 2.050 Cellular Storage Structure Invert Level (m) 1.600 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.30 Infiltration Coefficient Side (m/hr) 0.00000 <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>300.0</td><td>300.0</td><td>0.351</td><td>0.0</td><td>332.0</td></tr><tr><td>0.350</td><td>300.0</td><td>332.0</td><td></td><td></td><td></td></tr></tbody></table> Orifice Outflow Control Diameter (m) 0.100 Discharge Coefficient 0.600 Invert Level (m) 1.060			Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	0.000	300.0	300.0	0.351	0.0	332.0	0.350	300.0	332.0			
Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)															
0.000	300.0	300.0	0.351	0.0	332.0															
0.350	300.0	332.0																		
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Mayer Brown Limited							Page 1
Lion House Oriental Road Woking, GU22 8AR				Hampton Park Open spaces RMA South Car Park			
Date 03/12/2025 12:05 File Car Park South Catchmen...				Designed by SF Checked by SF			
Innovyze				Source Control 2020.1			
Summary of Results for 100 year Return Period (+40%)							
Half Drain Time : 21 minutes.							
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Control (l/s)	Max Outflow (l/s)	Max Volume (m³)	Status
15 min Winter	1.339	0.299	0.0	11.2	11.2	19.7	Flood Risk
30 min Winter	1.385	0.345	0.0	12.1	12.1	22.7	Flood Risk
60 min Winter	1.388	0.348	0.0	12.1	12.1	22.9	Flood Risk
120 min Winter	1.311	0.271	0.0	10.7	10.7	17.9	Flood Risk
180 min Winter	1.254	0.214	0.0	9.4	9.4	14.1	Flood Risk
240 min Winter	1.212	0.172	0.0	8.4	8.4	11.4	Flood Risk
360 min Winter	1.160	0.120	0.0	6.9	6.9	7.9	0 K
480 min Winter	1.134	0.094	0.0	5.8	5.8	6.2	0 K
600 min Winter	1.120	0.080	0.0	5.0	5.0	5.3	0 K
720 min Winter	1.110	0.070	0.0	4.3	4.3	4.6	0 K
960 min Winter	1.096	0.056	0.0	3.5	3.5	3.7	0 K
1440 min Winter	1.080	0.040	0.0	2.6	2.6	2.6	0 K
2160 min Winter	1.064	0.024	0.0	1.9	1.9	1.6	0 K
2880 min Winter	1.057	0.017	0.0	1.5	1.5	1.1	0 K
4320 min Winter	1.050	0.010	0.0	1.2	1.2	0.6	0 K
5760 min Winter	1.046	0.006	0.0	0.9	0.9	0.4	0 K
7200 min Winter	1.042	0.002	0.0	0.8	0.8	0.1	0 K
8640 min Winter	1.040	0.000	0.0	0.7	0.7	0.0	0 K
10080 min Winter	1.040	0.000	0.0	0.6	0.6	0.0	0 K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Discharge Volume (m³)	Time-Peak (mins)			
15 min Winter	148.960	0.0	26.0	15			
30 min Winter	99.960	0.0	35.0	25			
60 min Winter	63.840	0.0	44.7	44			
120 min Winter	37.100	0.0	51.9	78			
180 min Winter	27.016	0.0	56.7	110			
240 min Winter	21.560	0.0	60.4	142			
360 min Winter	15.657	0.0	65.7	200			
480 min Winter	12.481	0.0	69.9	258			
600 min Winter	10.473	0.0	73.3	318			
720 min Winter	9.077	0.0	76.2	378			
960 min Winter	7.247	0.0	81.1	500			
1440 min Winter	5.291	0.0	88.9	750			
2160 min Winter	3.883	0.0	97.8	1104			
2880 min Winter	3.130	0.0	105.1	1440			
4320 min Winter	2.323	0.0	117.0	2156			
5760 min Winter	1.894	0.0	127.3	2936			
7200 min Winter	1.627	0.0	136.7	3576			
8640 min Winter	1.445	0.0	145.7	0			
10080 min Winter	1.315	0.0	154.7	0			
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Mayer Brown Limited		Page 2
Lion House Oriental Road Woking, GU22 8AR	Hampton Park Open spaces RMA South Car Park	
Date 03/12/2025 12:05	Designed by SF	
File Car Park South Catchmen...	Checked by SF	
Innovyze	Source Control 2020.1	

Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 502950 104450 TQ 02950 04450
Data Type	Catchment
Summer Storms	No
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	1.000
Shortest Storm (mins)	15
Longest Storm (mins)	10080
Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.070

Time (mins)	Area
From:	To: (ha)
0	4 0.070

Mayer Brown Limited		Page 3																		
Lion House Oriental Road Woking, GU22 8AR	Hampton Park Open spaces RMA South Car Park																			
Date 03/12/2025 12:05 File Car Park South Catchmen...	Designed by SF Checked by SF																			
Innovyze Source Control 2020.1																				
Model Details Storage is Online Cover Level (m) 1.490 Cellular Storage Structure Invert Level (m) 1.040 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.30 Infiltration Coefficient Side (m/hr) 0.00000 <table><thead><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr></thead><tbody><tr><td>0.000</td><td>220.0</td><td>220.0</td><td>0.351</td><td>0.0</td><td>245.6</td></tr><tr><td>0.350</td><td>220.0</td><td>245.6</td><td></td><td></td><td></td></tr></tbody></table> Orifice Outflow Control Diameter (m) 0.100 Discharge Coefficient 0.600 Invert Level (m) 1.000			Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)	0.000	220.0	220.0	0.351	0.0	245.6	0.350	220.0	245.6			
Depth (m)	Area (m²)	Inf. Area (m²)	Depth (m)	Area (m²)	Inf. Area (m²)															
0.000	220.0	220.0	0.351	0.0	245.6															
0.350	220.0	245.6																		
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Mayer Brown Limited		Page 1
Lion House Oriental Road Woking, GU22 8AR	Hampton Park Open Spaces Greenfield Run-off	
Date 03/12/2025 13:12 File	Designed by SF Checked by SF	
Innovyze	Source Control 2020.1	
ICP SUDS Mean Annual Flood Input Return Period (years)100 Area (ha)1.760 SAAR (mm)742 Soil0.400 Urban0.000 Region NumberRegion 7 Resultsl/s QBAR Rural6.4 QBAR Urban6.4 Q100 years20.4 Q1 year5.4 Q30 years14.5 Q100 years20.4		
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Mayer Brown Limited		Page 1
Lion House Oriental Road Woking, GU22 8AR	Hampton Park Open Spaces Playing Pitches	
Date 04/12/2025 10:29 File Test.MDX	Designed by SF Checked by SF	
Innovyze	Network 2020.1	

Existing Network Details for Storm

* - Indicates pipe has been modified outside of System 1

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	k (mm)	HYD SECT	DIA (mm)	Section Type
* 1.000	20.000	0.000	0.0	0.000	2.00	0.600	o	450	Pipe/Conduit
* 1.001	20.000	0.000	0.0	0.000	0.00	0.600	o	450	Pipe/Conduit
* 1.002	20.000	0.000	0.0	0.000	0.00	0.600	o	450	Pipe/Conduit
* 1.003	20.000	0.000	0.0	0.000	0.00	0.600	o	450	Pipe/Conduit
* 1.004	20.000	0.000	0.0	0.000	0.00	0.600	o	450	Pipe/Conduit
* 2.000	70.000	0.000	0.0	0.000	2.00	0.600	o	450	Pipe/Conduit
* 3.000	5.000	0.000	0.0	0.000	5.00	0.600	o	450	Pipe/Conduit
* 1.005	26.000	0.000	0.0	0.000	0.00	0.600	o	450	Pipe/Conduit
* 1.006	2.000	0.050	40.0	0.000	0.00	0.600	o	450	Pipe/Conduit
* 1.007	2.000	0.000	0.0	0.000	0.00	0.600	o	450	Pipe/Conduit

PN	US/MH Name	US/CL (m)	US/IL (m)	US C.Depth (m)	DS/CL (m)	DS/IL (m)	DS C.Depth (m)	Ctrl	US/MH (mm)
* 1.000	SW20/01	1.850	1.050	0.350	1.850	1.050	0.350		600
* 1.001	Junction	1.850	1.050	0.350	1.850	1.050	0.350		450
* 1.002	Junction	1.850	1.050	0.350	1.850	1.050	0.350		450
* 1.003	Junction	1.850	1.050	0.350	1.850	1.050	0.350		450
* 1.004	Junction	1.850	1.050	0.350	1.850	1.050	0.350		450
* 2.000	SW20/02	1.850	1.050	0.350	1.850	1.050	0.350		600
* 3.000	Attenuation	1.850	1.050	0.350	1.850	1.050	0.350		1200
* 1.005	SW20/03	1.850	1.050	0.350	1.850	1.050	0.350		600
* 1.006	SW20/04	1.850	1.050	0.350	1.850	1.000	0.400	Orifice	1200
* 1.007	Swale	1.850	1.000	0.400	1.850	1.000	0.400		1350

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)
1.007		1.850	1.000	1.000	0	0

Mayer Brown Limited		Page 2
Lion House Oriental Road Woking, GU22 8AR	Hampton Park Open Spaces Playing Pitches	
Date 04/12/2025 10:29 File Test.MDX	Designed by SF Checked by SF	
Innovyze	Network 2020.1	
Online Controls for Storm Orifice Manhole: SW20/04, DS/PN: 1.006, Volume (m³): 4.9 Diameter (m) 0.245 Discharge Coefficient 0.600 Invert Level (m) 1.050		
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Mayer Brown Limited		Page 3
Lion House Oriental Road Woking, GU22 8AR	Hampton Park Open Spaces Playing Pitches	
Date 04/12/2025 10:29 File Test.MDX	Designed by SF Checked by SF	
Innovyze	Network 2020.1	

Storage Structures for Storm

Cellular Storage Manhole: Attenuation, DS/PN: 3.000

Invert Level (m) 1.050 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	390.0	390.0	0.501	0.0	461.0
0.500	390.0	461.0			

Time Area Diagram for Green Roof at Pipe Number 1.000 (Storm)

Area (m³) 2500 Evaporation (mm/day) 3
 Depression Storage (mm) 5 Decay Coefficient 0.050

Time (mins) From:	Time (mins) To:	Area (ha)	Time (mins) From:	Time (mins) To:	Area (ha)	Time (mins) From:	Time (mins) To:	Area (ha)	Time (mins) From:	Time (mins) To:	Area (ha)
0	4	0.045430	32	36	0.009172	64	68	0.001852	96	100	0.000374
4	8	0.037195	36	40	0.007510	68	72	0.001516	100	104	0.000306
8	12	0.030453	40	44	0.006148	72	76	0.001241	104	108	0.000251
12	16	0.024932	44	48	0.005034	76	80	0.001016	108	112	0.000205
16	20	0.020413	48	52	0.004121	80	84	0.000832	112	116	0.000168
20	24	0.016713	52	56	0.003374	84	88	0.000681	116	120	0.000138
24	28	0.013683	56	60	0.002763	88	92	0.000558			
28	32	0.011203	60	64	0.002262	92	96	0.000457			

Time Area Diagram for Green Roof at Pipe Number 1.001 (Storm)

Area (m³) 2400 Evaporation (mm/day) 3
 Depression Storage (mm) 5 Decay Coefficient 0.050

Time (mins) From:	Time (mins) To:	Area (ha)	Time (mins) From:	Time (mins) To:	Area (ha)	Time (mins) From:	Time (mins) To:	Area (ha)	Time (mins) From:	Time (mins) To:	Area (ha)
0	4	0.043613	32	36	0.008805	64	68	0.001778	96	100	0.000359
4	8	0.035707	36	40	0.007209	68	72	0.001455	100	104	0.000294
8	12	0.029234	40	44	0.005902	72	76	0.001192	104	108	0.000241
12	16	0.023935	44	48	0.004832	76	80	0.000976	108	112	0.000197
16	20	0.019596	48	52	0.003956	80	84	0.000799	112	116	0.000161
20	24	0.016044	52	56	0.003239	84	88	0.000654	116	120	0.000132
24	28	0.013136	56	60	0.002652	88	92	0.000535			
28	32	0.010755	60	64	0.002171	92	96	0.000438			

Mayer Brown Limited		Page 4
Lion House Oriental Road Woking, GU22 8AR	Hampton Park Open Spaces Playing Pitches	
Date 04/12/2025 10:29 File Test.MDX	Designed by SF Checked by SF	
Innovyze	Network 2020.1	

Time Area Diagram for Green Roof at Pipe Number 1.002 (Storm)

Area (m³) 2400 Evaporation (mm/day) 3
Depression Storage (mm) 5 Decay Coefficient 0.050

Time (mins) From:	To:	Area (ha)	Time (mins) From:	To:	Area (ha)	Time (mins) From:	To:	Area (ha)	Time (mins) From:	To:	Area (ha)
0	4	0.043613	32	36	0.008805	64	68	0.001778	96	100	0.000359
4	8	0.035707	36	40	0.007209	68	72	0.001455	100	104	0.000294
8	12	0.029234	40	44	0.005902	72	76	0.001192	104	108	0.000241
12	16	0.023935	44	48	0.004832	76	80	0.000976	108	112	0.000197
16	20	0.019596	48	52	0.003956	80	84	0.000799	112	116	0.000161
20	24	0.016044	52	56	0.003239	84	88	0.000654	116	120	0.000132
24	28	0.013136	56	60	0.002652	88	92	0.000535			
28	32	0.010755	60	64	0.002171	92	96	0.000438			

Time Area Diagram for Green Roof at Pipe Number 1.003 (Storm)

Area (m³) 2400 Evaporation (mm/day) 3
Depression Storage (mm) 5 Decay Coefficient 0.050

Time (mins) From:	To:	Area (ha)	Time (mins) From:	To:	Area (ha)	Time (mins) From:	To:	Area (ha)	Time (mins) From:	To:	Area (ha)
0	4	0.043613	32	36	0.008805	64	68	0.001778	96	100	0.000359
4	8	0.035707	36	40	0.007209	68	72	0.001455	100	104	0.000294
8	12	0.029234	40	44	0.005902	72	76	0.001192	104	108	0.000241
12	16	0.023935	44	48	0.004832	76	80	0.000976	108	112	0.000197
16	20	0.019596	48	52	0.003956	80	84	0.000799	112	116	0.000161
20	24	0.016044	52	56	0.003239	84	88	0.000654	116	120	0.000132
24	28	0.013136	56	60	0.002652	88	92	0.000535			
28	32	0.010755	60	64	0.002171	92	96	0.000438			

Time Area Diagram for Green Roof at Pipe Number 1.004 (Storm)

Area (m³) 2400 Evaporation (mm/day) 3
Depression Storage (mm) 5 Decay Coefficient 0.050

Time (mins) From:	To:	Area (ha)	Time (mins) From:	To:	Area (ha)	Time (mins) From:	To:	Area (ha)	Time (mins) From:	To:	Area (ha)
0	4	0.043613	32	36	0.008805	64	68	0.001778	96	100	0.000359
4	8	0.035707	36	40	0.007209	68	72	0.001455	100	104	0.000294
8	12	0.029234	40	44	0.005902	72	76	0.001192	104	108	0.000241
12	16	0.023935	44	48	0.004832	76	80	0.000976	108	112	0.000197
16	20	0.019596	48	52	0.003956	80	84	0.000799	112	116	0.000161
20	24	0.016044	52	56	0.003239	84	88	0.000654	116	120	0.000132
24	28	0.013136	56	60	0.002652	88	92	0.000535			
28	32	0.010755	60	64	0.002171	92	96	0.000438			

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Time Area Diagram for Green Roof at Pipe Number 2.000 (Storm)

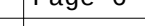
Area (m³) 1200 Evaporation (mm/day) 3
Depression Storage (mm) 5 Decay Coefficient 0.050

Time (mins) From:	Time (mins) To:	Area (ha)	Time (mins) From:	Time (mins) To:	Area (ha)	Time (mins) From:	Time (mins) To:	Area (ha)	Time (mins) From:	Time (mins) To:	Area (ha)
0	4	0.021806	32	36	0.004403	64	68	0.000889	96	100	0.000179
4	8	0.017854	36	40	0.003605	68	72	0.000728	100	104	0.000147
8	12	0.014617	40	44	0.002951	72	76	0.000596	104	108	0.000120
12	16	0.011968	44	48	0.002416	76	80	0.000488	108	112	0.000098
16	20	0.009798	48	52	0.001978	80	84	0.000399	112	116	0.000081
20	24	0.008022	52	56	0.001620	84	88	0.000327	116	120	0.000066
24	28	0.006568	56	60	0.001326	88	92	0.000268			
28	32	0.005377	60	64	0.001086	92	96	0.000219			

Time Area Diagram for Green Roof at Pipe Number 1.005 (Storm)

Area (m³) 1200 Evaporation (mm/day) 3
Depression Storage (mm) 5 Decay Coefficient 0.050

Time (mins) From:	Time (mins) To:	Area (ha)	Time (mins) From:	Time (mins) To:	Area (ha)	Time (mins) From:	Time (mins) To:	Area (ha)	Time (mins) From:	Time (mins) To:	Area (ha)
0	4	0.021806	32	36	0.004403	64	68	0.000889	96	100	0.000179
4	8	0.017854	36	40	0.003605	68	72	0.000728	100	104	0.000147
8	12	0.014617	40	44	0.002951	72	76	0.000596	104	108	0.000120
12	16	0.011968	44	48	0.002416	76	80	0.000488	108	112	0.000098
16	20	0.009798	48	52	0.001978	80	84	0.000399	112	116	0.000081
20	24	0.008022	52	56	0.001620	84	88	0.000327	116	120	0.000066
24	28	0.006568	56	60	0.001326	88	92	0.000268			
28	32	0.005377	60	64	0.001086	92	96	0.000219			

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Number of Input Hydrographs	0	Number of Storage Structures	1
Number of Online Controls	1	Number of Time/Area Diagrams	7
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Margin for Flood Risk Warning (mm)	300.0
Analysis Timestep	2.5 Second Increment (Extended)
DTS Status	ON
DVD Status	ON
Inertia Status	OFF

Profile(s) Winter

PN	US/MH		Event					US/CL (m)	Water	Surcharged	Flooded	Flow / Cap.
	Name								Level	Depth	Volume (m³)	
1.000	SW20/01	120 minute	100 year	Winter	I+0%	1.850	1.866	0.366	16.400	0.75		
1.001	Junction	120 minute	100 year	Winter	I+0%	1.850	1.862	0.362	12.143	1.07		
1.002	Junction	120 minute	100 year	Winter	I+0%	1.850	1.855	0.355	4.916	1.59		
1.003	Junction	120 minute	100 year	Winter	I+0%	1.850	1.850	0.350	0.400	2.11		
1.004	Junction	120 minute	100 year	Winter	I+0%	1.850	1.841	0.341	0.000	2.63		
2.000	SW20/02	120 minute	100 year	Winter	I+0%	1.850	1.823	0.323	0.000	0.14		
3.000	Attenuation	120 minute	100 year	Winter	I+0%	1.850	1.817	0.317	0.000	0.19		
1.005	SW20/03	120 minute	100 year	Winter	I+0%	1.850	1.818	0.318	0.000	1.25		
1.006	SW20/04	120 minute	100 year	Winter	I+0%	1.850	1.784	0.284	0.000	0.46		
1.007	Swale	120 minute	100 year	Winter	I+0%	1.850	1.251	-0.199	0.000	0.60		

PN	US/MH Name	Maximum Vol (m³)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.000	SW20/01	16.623		38.9	FLOOD

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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Maximum Vol (m³)	Half Drain Time (mins)	Pipe Flow (l/s)	Status
1.001	Junction	15.365		55.1	FLOOD
1.002	Junction	8.152		82.1	FLOOD
1.003	Junction	3.356		109.1	FLOOD
1.004	Junction	3.234		136.0	FLOOD RISK
2.000	SW20/02	0.217		13.5	FLOOD RISK
3.000	Attenuation	186.236	153	21.8	FLOOD RISK
1.005	SW20/03	15.003		76.9	FLOOD RISK
1.006	SW20/04	4.817		77.0	FLOOD RISK
1.007	Swale	0.403		76.7	OK

