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	White Cottage Climping Street Climping	
Date 4.4.19 File G1 calcs.SRCX	Designed by Checked by	
Micro Drainage	Source Control 2016.1	

Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 126 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	3.596	0.186	0.1	0.9	0 K
30 min Summer	3.650	0.240	0.1	1.1	0 K
60 min Summer	3.693	0.283	0.1	1.3	0 K
120 min Summer	3.712	0.302	0.1	1.4	0 K
180 min Summer	3.712	0.302	0.1	1.4	0 K
240 min Summer	3.705	0.295	0.1	1.4	0 K
360 min Summer	3.688	0.278	0.1	1.3	0 K
480 min Summer	3.669	0.259	0.1	1.2	0 K
600 min Summer	3.651	0.241	0.1	1.1	0 K
720 min Summer	3.633	0.223	0.1	1.1	0 K
960 min Summer	3.602	0.192	0.1	0.9	0 K
1440 min Summer	3.549	0.139	0.1	0.7	0 K
2160 min Summer	3.496	0.086	0.1	0.4	0 K
2880 min Summer	3.466	0.056	0.1	0.3	0 K
4320 min Summer	3.450	0.040	0.1	0.2	0 K
5760 min Summer	3.442	0.032	0.1	0.2	0 K
7200 min Summer	3.437	0.027	0.0	0.1	0 K
8640 min Summer	3.434	0.024	0.0	0.1	0 K
10080 min Summer	3.431	0.021	0.0	0.1	0 K
15 min Winter	3.620	0.210	0.1	1.0	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	128.238	0.0	18
30 min Summer	86.178	0.0	32
60 min Summer	55.250	0.0	60
120 min Summer	34.177	0.0	100
180 min Summer	25.410	0.0	132
240 min Summer	20.436	0.0	166
360 min Summer	15.037	0.0	236
480 min Summer	12.081	0.0	304
600 min Summer	10.185	0.0	372
720 min Summer	8.854	0.0	436
960 min Summer	7.093	0.0	568
1440 min Summer	5.178	0.0	810
2160 min Summer	3.772	0.0	1168
2880 min Summer	3.009	0.0	1496
4320 min Summer	2.184	0.0	2204
5760 min Summer	1.738	0.0	2936
7200 min Summer	1.455	0.0	3640
8640 min Summer	1.260	0.0	4376
10080 min Summer	1.115	0.0	5136
15 min Winter	128.238	0.0	18

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Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	3.682	0.272	0.1	1.3	0 K
60 min Winter	3.733	0.323	0.1	1.5	0 K
120 min Winter	3.757	0.347	0.1	1.6	0 K
180 min Winter	3.755	0.345	0.1	1.6	0 K
240 min Winter	3.745	0.335	0.1	1.6	0 K
360 min Winter	3.719	0.309	0.1	1.5	0 K
480 min Winter	3.690	0.280	0.1	1.3	0 K
600 min Winter	3.663	0.253	0.1	1.2	0 K
720 min Winter	3.637	0.227	0.1	1.1	0 K
960 min Winter	3.591	0.181	0.1	0.9	0 K
1440 min Winter	3.519	0.109	0.1	0.5	0 K
2160 min Winter	3.460	0.050	0.1	0.2	0 K
2880 min Winter	3.450	0.040	0.1	0.2	0 K
4320 min Winter	3.439	0.029	0.1	0.1	0 K
5760 min Winter	3.434	0.024	0.0	0.1	0 K
7200 min Winter	3.430	0.020	0.0	0.1	0 K
8640 min Winter	3.427	0.017	0.0	0.1	0 K
10080 min Winter	3.425	0.015	0.0	0.1	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)
30 min Winter	86.178	0.0	32
60 min Winter	55.250	0.0	60
120 min Winter	34.177	0.0	114
180 min Winter	25.410	0.0	140
240 min Winter	20.436	0.0	180
360 min Winter	15.037	0.0	256
480 min Winter	12.081	0.0	328
600 min Winter	10.185	0.0	398
720 min Winter	8.854	0.0	468
960 min Winter	7.093	0.0	598
1440 min Winter	5.178	0.0	840
2160 min Winter	3.772	0.0	1124
2880 min Winter	3.009	0.0	1472
4320 min Winter	2.184	0.0	2208
5760 min Winter	1.738	0.0	2912
7200 min Winter	1.455	0.0	3664
8640 min Winter	1.260	0.0	4304
10080 min Winter	1.115	0.0	5136

White Cottage
Climping Street
Climping



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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.500	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.004

Time (mins)	Area (ha)
From:	To:
0	4 0.004

White Cottage
Climping Street
Climping



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Source Control 2016.1

Model Details

Storage is Online Cover Level (m) 4.410

Cellular Storage Structure

Invert Level (m) 3.410
Infiltration Coefficient Base (m/hr) 0.17296
Infiltration Coefficient Side (m/hr) 0.17296
Safety Factor 3.0
Porosity 0.95

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	5.0	5.0	0.500	0.0	8.6
0.400	5.0	8.6			

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Summary of Results for 100 year Return Period (+40%)

Half Drain Time : 138 minutes.

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
15 min Summer	3.952	0.187	0.2	1.3	0 K
30 min Summer	4.007	0.242	0.2	1.7	0 K
60 min Summer	4.051	0.286	0.2	2.0	0 K
120 min Summer	4.072	0.307	0.2	2.2	0 K
180 min Summer	4.072	0.307	0.2	2.2	0 K
240 min Summer	4.065	0.300	0.2	2.1	0 K
360 min Summer	4.049	0.284	0.2	2.0	0 K
480 min Summer	4.031	0.266	0.2	1.9	0 K
600 min Summer	4.013	0.248	0.2	1.8	0 K
720 min Summer	3.995	0.230	0.2	1.6	0 K
960 min Summer	3.963	0.198	0.2	1.4	0 K
1440 min Summer	3.910	0.145	0.1	1.0	0 K
2160 min Summer	3.855	0.090	0.1	0.6	0 K
2880 min Summer	3.823	0.058	0.1	0.4	0 K
4320 min Summer	3.806	0.041	0.1	0.3	0 K
5760 min Summer	3.798	0.033	0.1	0.2	0 K
7200 min Summer	3.793	0.028	0.1	0.2	0 K
8640 min Summer	3.789	0.024	0.1	0.2	0 K
10080 min Summer	3.786	0.021	0.1	0.2	0 K
15 min Winter	3.976	0.211	0.2	1.5	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
15 min Summer	128.238	0.0	18
30 min Summer	86.178	0.0	32
60 min Summer	55.250	0.0	62
120 min Summer	34.177	0.0	104
180 min Summer	25.410	0.0	136
240 min Summer	20.436	0.0	170
360 min Summer	15.037	0.0	238
480 min Summer	12.081	0.0	306
600 min Summer	10.185	0.0	374
720 min Summer	8.854	0.0	440
960 min Summer	7.093	0.0	570
1440 min Summer	5.178	0.0	822
2160 min Summer	3.772	0.0	1168
2880 min Summer	3.009	0.0	1500
4320 min Summer	2.184	0.0	2204
5760 min Summer	1.738	0.0	2936
7200 min Summer	1.455	0.0	3672
8640 min Summer	1.260	0.0	4400
10080 min Summer	1.115	0.0	5104
15 min Winter	128.238	0.0	18

White Cottage
Climping Street
Climping



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Micro Drainage

Source Control 2016.1

Summary of Results for 100 year Return Period (+40%)

Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m ³)	Status
30 min Winter	4.038	0.273	0.2	1.9	0 K
60 min Winter	4.092	0.327	0.2	2.3	0 K
120 min Winter	4.118	0.353	0.2	2.5	0 K
180 min Winter	4.116	0.351	0.2	2.5	0 K
240 min Winter	4.107	0.342	0.2	2.4	0 K
360 min Winter	4.082	0.317	0.2	2.3	0 K
480 min Winter	4.055	0.290	0.2	2.1	0 K
600 min Winter	4.027	0.262	0.2	1.9	0 K
720 min Winter	4.001	0.236	0.2	1.7	0 K
960 min Winter	3.954	0.189	0.2	1.3	0 K
1440 min Winter	3.880	0.115	0.1	0.8	0 K
2160 min Winter	3.816	0.051	0.1	0.4	0 K
2880 min Winter	3.806	0.041	0.1	0.3	0 K
4320 min Winter	3.795	0.030	0.1	0.2	0 K
5760 min Winter	3.789	0.024	0.1	0.2	0 K
7200 min Winter	3.785	0.020	0.1	0.1	0 K
8640 min Winter	3.782	0.017	0.0	0.1	0 K
10080 min Winter	3.780	0.015	0.0	0.1	0 K

Storm Event	Rain (mm/hr)	Flooded Volume (m ³)	Time-Peak (mins)
30 min Winter	86.178	0.0	32
60 min Winter	55.250	0.0	60
120 min Winter	34.177	0.0	114
180 min Winter	25.410	0.0	144
240 min Winter	20.436	0.0	182
360 min Winter	15.037	0.0	258
480 min Winter	12.081	0.0	332
600 min Winter	10.185	0.0	404
720 min Winter	8.854	0.0	472
960 min Winter	7.093	0.0	606
1440 min Winter	5.178	0.0	852
2160 min Winter	3.772	0.0	1144
2880 min Winter	3.009	0.0	1496
4320 min Winter	2.184	0.0	2204
5760 min Winter	1.738	0.0	2936
7200 min Winter	1.455	0.0	3672
8640 min Winter	1.260	0.0	4408
10080 min Winter	1.115	0.0	5144

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Rainfall Details

Rainfall Model	FSR	Winter Storms	Yes
Return Period (years)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	19.500	Shortest Storm (mins)	15
Ratio R	0.350	Longest Storm (mins)	10080
Summer Storms	Yes	Climate Change %	+40

Time Area Diagram

Total Area (ha) 0.006

Time (mins)	Area (ha)
From:	To:
0	4 0.006

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Micro Drainage

Source Control 2016.1

Model Details

Storage is Online Cover Level (m) 4.665

Cellular Storage Structure

Invert Level (m) 3.765
Infiltration Coefficient Base (m/hr) 0.17296
Infiltration Coefficient Side (m/hr) 0.17296
Safety Factor 3.0
Porosity 0.95

Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	7.5	7.5	0.500	0.0	11.9
0.400	7.5	11.9			