

Global Variables

Region	FSR - England & Wales	Manhole Headloss Coefficient	0.500
Return Period (yrs)	1	MADD Factor * 10m³/ha Storage	2.000
M5-60 (mm)	18.700	Foul Sewage/Hectare (l/s)	0.00
Ratio R	0.400	Additional Flow - % of Total Flow	0
Volumetric Runoff Coef	0.750	Inlet Coefficient	0.800
Profile Type	Summer	Number of Input Hydrographs	0
PIMP (%)	100	Number of Time/Area Diagrams	0
Areal Reduction Factor	1.000	Number of Bifurcations	0
Storm Duration (mins)	15	Number of Overflows	0
Hot Start (mins)	0	Number of Off-Line Controls	1
Hot Start Level (mm)	0	Number of On-Line Controls	0

Starting Storm file name

J:\11321\2002\WINDES\CCRC EXTRA CARE\CCRC EXTRA CARE.SWS

Freely Discharging Outfalls

Outfall Pipe Number	Outfall MH/No	C.Level (m)	I.Level (m)	D,L (mm)	B (mm)
30.005		40.200	39.395	225	0

Infiltration Systems

Warning:- Volume should always be included unless the upstream pipe is being used for storage and/or as a carrier.

DS/PN	MH Loss	Height above DS PN (m)	Filename	Type	Include Volume
30.005	0.500	-0.600	Soakaway.src	Cellular Storage	Yes (capped) (lvl 39.400m)

Network Details

* - Indicates pipe has been modified outside of WinDes's Storm/Foul & Schedules

PN	Length (m)	Fall (m)	Slope (1:x)	Area (ha)	T.E. (mins)	Rain Pro	k (mm)	Hyd Sect	Dia (mm)
30.000	22.00	0.132	166.7	0.010	4.00	1	0.600	o	225
30.001	21.00	0.126	166.7	0.019	0.00	1	0.600	o	225
30.002	11.50	0.069	166.7	0.018	0.00	1	0.600	o	225
31.000	13.00	0.078	166.7	0.021	4.00	1	0.600	o	225
31.001	10.00	0.060	166.7	0.039	0.00	1	0.600	o	225
30.003	17.50	0.105	166.7	0.000	0.00	1	0.600	o	225
32.000	22.00	0.132	166.7	0.010	4.00	1	0.600	o	225
32.001	21.00	0.126	166.7	0.019	0.00	1	0.600	o	225
32.002	11.50	0.069	166.7	0.018	0.00	1	0.600	o	225
33.000	13.00	0.078	166.7	0.021	4.00	1	0.600	o	225
33.001	10.00	0.060	166.7	0.039	0.00	1	0.600	o	225
32.003	17.50	0.105	166.7	0.000	0.00	1	0.600	o	225
30.004	5.00	0.030	166.7	0.000	0.00	1	0.600	o	225
30.005	1.00	0.005	200.0	0.000	0.00	1	0.600	o	225
PN	USMH No.	US/CL (m)	US/IL (m)	US C.Depth (m)	DS/CL (m)	DS/IL (m)	DS C.Depth (m)	Ctrl No.	US/MH (mm)
30.000	1	40.587	39.462	0.900	40.455	39.330	0.900		1050
30.001	2	40.455	39.330	0.900	40.329	39.204	0.900		1050
30.002	3	40.329	39.204	0.900	40.260	39.135	0.900		1050
31.000	4	40.398	39.273	0.900	40.320	39.195	0.900		1050
31.001	5	40.320	39.195	0.900	40.260	39.135	0.900		1050
30.003	6	40.260	39.135	0.900	40.200	39.030	0.945		1050
32.000	7	40.587	39.462	0.900	40.455	39.330	0.900		1050
32.001	8	40.455	39.330	0.900	40.329	39.204	0.900		1050
32.002	9	40.329	39.204	0.900	40.260	39.135	0.900		1050
33.000	10	40.398	39.273	0.900	40.320	39.195	0.900		1050
33.001	11	40.320	39.195	0.900	40.260	39.135	0.900		1050
32.003	12	40.260	39.135	0.900	40.200	39.030	0.945		1050
30.004	13	40.200	39.030	0.945	40.200	39.000	0.975		1500
30.005	14	40.200	39.400	0.575	40.200	39.395	0.580		1050

Summary Wizard of "CRITICAL BY RETURN PERIOD"(Rank 1 by Max Level)
Results for Design Storms

Margin for Flood Risk warning (mm)	300	Inertia Status	OFF
DTS Status	ON	Analysis Time Step	Fine
DVD Status	OFF		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 0

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
30.000	15 Summer	1	0%	1				
30.001	15 Winter	1	0%	1	100/15 Winter			
30.002	15 Winter	1	0%	1	30/15 Summer			
31.000	15 Summer	1	0%	1	100/15 Summer			
31.001	15 Winter	1	0%	1	30/15 Summer			
30.003	15 Winter	1	0%	1	30/15 Summer			
32.000	15 Summer	1	0%	1				
32.001	15 Winter	1	0%	1	100/15 Winter			
32.002	15 Winter	1	0%	1	30/15 Summer			
33.000	15 Summer	1	0%	1	100/15 Summer			
33.001	15 Winter	1	0%	1	30/15 Summer			
32.003	15 Winter	1	0%	1	30/15 Summer			
30.004	15 Winter	1	0%	1	30/15 Summer			
30.005	360 Winter	1	0%	1			1/15 Summer	54

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	30.000	39.490	-0.197	0.000	0.04	0.0	1.4	0 K
	30.001	39.377	-0.178	0.000	0.09	0.0	3.4	0 K
	30.002	39.264	-0.165	0.000	0.16	0.0	5.4	0 K
	31.000	39.317	-0.181	0.000	0.08	0.0	2.9	0 K
	31.001	39.266	-0.154	0.000	0.21	0.0	7.2	0 K
	30.003	39.229	-0.131	0.000	0.35	0.0	12.4	0 K
	32.000	39.490	-0.197	0.000	0.04	0.0	1.4	0 K
	32.001	39.377	-0.178	0.000	0.09	0.0	3.4	0 K
	32.002	39.264	-0.165	0.000	0.16	0.0	5.4	0 K
	33.000	39.317	-0.181	0.000	0.08	0.0	2.9	0 K
	33.001	39.266	-0.154	0.000	0.21	0.0	7.2	0 K
	32.003	39.229	-0.131	0.000	0.35	0.0	12.4	0 K
	30.004	39.188	-0.067	0.000	0.83	0.0	24.4	0 K
	30.005	38.905	-0.720	0.000	0.00	1.2	0.0	0 K

Summary Wizard of "CRITICAL BY RETURN PERIOD"(Rank 1 by Max Level)
 Results for Design Storms

Margin for Flood Risk warning (mm)	300	Inertia Status	OFF
DTS Status	ON	Analysis Time Step	Fine
DVD Status	OFF		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 0

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
30.000	15 Summer	30	0%	1				
30.001	15 Winter	30	0%	1	100/15 Winter			
30.002	15 Winter	30	0%	1	30/15 Summer			
31.000	15 Winter	30	0%	1	100/15 Summer			
31.001	15 Winter	30	0%	1	30/15 Summer			
30.003	15 Winter	30	0%	1	30/15 Summer			
32.000	15 Summer	30	0%	1				
32.001	15 Winter	30	0%	1	100/15 Winter			
32.002	15 Winter	30	0%	1	30/15 Summer			
33.000	15 Winter	30	0%	1	100/15 Summer			
33.001	15 Winter	30	0%	1	30/15 Summer			
32.003	15 Winter	30	0%	1	30/15 Summer			
30.004	15 Winter	30	0%	1	30/15 Summer			
30.005	360 Winter	30	0%	1			1/15 Summer	54

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	30.000	39.508	-0.179	0.000	0.09	0.0	3.4	0 K
	30.001	39.459	-0.096	0.000	0.24	0.0	8.9	0 K
	30.002	39.443	0.014	0.000	0.35	0.0	12.1	SURCH'ED
	31.000	39.457	-0.041	0.000	0.18	0.0	6.1	0 K
	31.001	39.448	0.028	0.000	0.49	0.0	16.5	SURCH'ED
	30.003	39.426	0.066	0.000	0.75	0.0	27.0	SURCH'ED
	32.000	39.508	-0.179	0.000	0.09	0.0	3.4	0 K
	32.001	39.459	-0.096	0.000	0.24	0.0	8.9	0 K
	32.002	39.443	0.014	0.000	0.35	0.0	12.1	SURCH'ED
	33.000	39.457	-0.041	0.000	0.18	0.0	6.1	0 K
	33.001	39.448	0.028	0.000	0.49	0.0	16.5	SURCH'ED
	32.003	39.426	0.066	0.000	0.75	0.0	27.0	SURCH'ED
	30.004	39.364	0.109	0.000	1.86	0.0	54.4	SURCH'ED
	30.005	39.071	-0.554	0.000	0.00	1.3	0.0	0 K

Summary Wizard of "CRITICAL BY RETURN PERIOD"(Rank 1 by Max Level)
Results for Design Storms

Margin for Flood Risk warning (mm)	300	Inertia Status	OFF
DTS Status	ON	Analysis Time Step	Fine
DVD Status	OFF		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 0

PN	Storm	Return Period	Climate Change	Rank	First X Surchage	First Y Flood	First Z Overflow	O/F Act
30.000	15 Winter	100	0%	1				
30.001	15 Winter	100	0%	1	100/15 Winter			
30.002	15 Winter	100	0%	1	30/15 Summer			
31.000	15 Winter	100	0%	1	100/15 Summer			
31.001	15 Winter	100	0%	1	30/15 Summer			
30.003	15 Winter	100	0%	1	30/15 Summer			
32.000	15 Winter	100	0%	1				
32.001	15 Winter	100	0%	1	100/15 Winter			
32.002	15 Winter	100	0%	1	30/15 Summer			
33.000	15 Winter	100	0%	1	100/15 Summer			
33.001	15 Winter	100	0%	1	30/15 Summer			
32.003	15 Winter	100	0%	1	30/15 Summer			
30.004	15 Winter	100	0%	1	30/15 Summer			
30.005	480 Winter	100	0%	1			1/15 Summer	54

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	30.000	39.586	-0.101	0.000	0.11	0.0	4.1	0 K
	30.001	39.579	0.024	0.000	0.28	0.0	10.1	SURCH'ED
	30.002	39.562	0.133	0.000	0.44	0.0	15.2	SURCH'ED
	31.000	39.581	0.083	0.000	0.22	0.0	7.6	SURCH'ED
	31.001	39.569	0.149	0.000	0.65	0.0	21.9	SURCH'ED
	30.003	39.541	0.181	0.000	0.93	0.0	33.4	SURCH'ED
	32.000	39.586	-0.101	0.000	0.11	0.0	4.1	0 K
	32.001	39.579	0.024	0.000	0.28	0.0	10.1	SURCH'ED
	32.002	39.562	0.133	0.000	0.44	0.0	15.2	SURCH'ED
	33.000	39.581	0.083	0.000	0.22	0.0	7.6	SURCH'ED
	33.001	39.569	0.149	0.000	0.65	0.0	21.9	SURCH'ED
	32.003	39.541	0.181	0.000	0.93	0.0	33.4	SURCH'ED
	30.004	39.444	0.189	0.000	2.30	0.0	67.4	SURCH'ED
	30.005	39.171	-0.454	0.000	0.00	1.3	0.0	0 K

Summary Wizard of "CRITICAL BY RETURN PERIOD"(Rank 1 by Max Level)
 Results for Design Storms

Margin for Flood Risk warning (mm)	300	Inertia Status	OFF
DTS Status	ON	Analysis Time Step	Fine
DVD Status	OFF		

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 240, 360, 480, 960, 1440
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 30

PN	Storm	Return Period	Climate Change	Rank	First X Surcharge	First Y Flood	First Z Overflow	O/F Act
30.000	15 Winter	100	30%	1	100/15 Summer			
30.001	15 Winter	100	30%	1	100/15 Summer			
30.002	15 Winter	100	30%	1	30/15 Summer			
31.000	15 Winter	100	30%	1	100/15 Summer			
31.001	15 Winter	100	30%	1	30/15 Summer			
30.003	15 Winter	100	30%	1	30/15 Summer			
32.000	15 Winter	100	30%	1	100/15 Summer			
32.001	15 Winter	100	30%	1	100/15 Summer			
32.002	15 Winter	100	30%	1	30/15 Summer			
33.000	15 Winter	100	30%	1	100/15 Summer			
33.001	15 Winter	100	30%	1	30/15 Summer			
32.003	15 Winter	100	30%	1	30/15 Summer			
30.004	15 Winter	100	30%	1	30/15 Summer			
30.005	480 Winter	100	30%	1			1/15 Summer	54

Lvl Ex.	PN	Water Lvl. (m)	Surcharged Depth (m)	Flooded Vol (m³)	Flow/ Capacity	Overflow (l/s)	Pipe Flow (l/s)	Status
	30.000	39.821	0.134	0.000	0.12	0.0	4.5	SURCH'ED
	30.001	39.813	0.258	0.000	0.33	0.0	11.9	SURCH'ED
	30.002	39.788	0.359	0.000	0.54	0.0	18.6	SURCH'ED
	31.000	39.812	0.314	0.000	0.27	0.0	9.3	SURCH'ED
	31.001	39.797	0.377	0.000	0.84	0.0	28.0	SURCH'ED
	30.003	39.759	0.399	0.000	1.21	0.0	43.4	SURCH'ED
	32.000	39.821	0.134	0.000	0.12	0.0	4.5	SURCH'ED
	32.001	39.813	0.258	0.000	0.33	0.0	11.9	SURCH'ED
	32.002	39.788	0.359	0.000	0.54	0.0	18.6	SURCH'ED
	33.000	39.812	0.314	0.000	0.27	0.0	9.3	SURCH'ED
	33.001	39.797	0.377	0.000	0.84	0.0	28.0	SURCH'ED
	32.003	39.759	0.399	0.000	1.21	0.0	43.4	SURCH'ED
	30.004	39.596	0.341	0.000	2.98	0.0	87.2	SURCH'ED
	30.005	39.295	-0.330	0.000	0.00	1.4	0.0	0 K

Green Park Village
CCRC Extra Care
Soakaway

Designed By	CMB
Checked By	

Source Control W.11.4 net



Half Drain Time : 301 minutes

Storm Duration (mins)		Maximum Filtration (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m³)	Status
15	Summer	1.2	1.2	0.0948	0.0948	21.6	OK
30	Summer	1.2	1.2	0.1203	0.1203	27.4	OK
60	Summer	1.2	1.2	0.1438	0.1438	32.8	OK
120	Summer	1.3	1.3	0.1627	0.1627	37.1	OK
180	Summer	1.3	1.3	0.1692	0.1692	38.6	OK
240	Summer	1.3	1.3	0.1707	0.1707	38.9	OK
360	Summer	1.3	1.3	0.1697	0.1697	38.7	OK
480	Summer	1.3	1.3	0.1672	0.1672	38.1	OK
600	Summer	1.3	1.3	0.1637	0.1637	37.3	OK
720	Summer	1.3	1.3	0.1592	0.1592	36.3	OK
960	Summer	1.2	1.2	0.1503	0.1503	34.2	OK
1440	Summer	1.2	1.2	0.1313	0.1313	29.9	OK
2160	Summer	1.2	1.2	0.1053	0.1053	24.0	OK
2880	Summer	1.2	1.2	0.0843	0.0843	19.2	OK
4320	Summer	1.2	1.2	0.0563	0.0563	12.8	OK
5760	Summer	1.1	1.1	0.0452	0.0452	10.3	OK
7200	Summer	1.0	1.0	0.0392	0.0392	8.9	OK
8640	Summer	0.8	0.8	0.0347	0.0347	7.9	OK
10080	Summer	0.8	0.8	0.0312	0.0312	7.1	OK
15	Winter	1.2	1.2	0.1063	0.1063	24.3	OK
30	Winter	1.2	1.2	0.1353	0.1353	30.8	OK
60	Winter	1.3	1.3	0.1622	0.1622	37.0	OK
120	Winter	1.3	1.3	0.1852	0.1852	42.2	OK
180	Winter	1.3	1.3	0.1937	0.1937	44.2	OK
240	Winter	1.3	1.3	0.1967	0.1967	44.9	OK
360	Winter	1.3	1.3	0.1947	0.1947	44.4	OK
480	Winter	1.3	1.3	0.1907	0.1907	43.5	OK
600	Winter	1.3	1.3	0.1852	0.1852	42.3	OK
720	Winter	1.3	1.3	0.1787	0.1787	40.8	OK
960	Winter	1.3	1.3	0.1648	0.1648	37.5	OK
1440	Winter	1.2	1.2	0.1353	0.1353	30.8	OK
2160	Winter	1.2	1.2	0.0958	0.0958	21.9	OK
2880	Winter	1.2	1.2	0.0663	0.0663	15.1	OK
4320	Winter	1.1	1.1	0.0437	0.0437	10.0	OK
5760	Winter	0.9	0.9	0.0357	0.0357	8.1	OK
7200	Winter	0.7	0.7	0.0302	0.0302	6.9	OK
8640	Winter	0.6	0.6	0.0262	0.0262	6.0	OK
10080	Winter	0.6	0.6	0.0237	0.0237	5.4	OK

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
15 Summer	55.95	18
30 Summer	36.15	33
60 Summer	22.43	62
120 Summer	13.57	122
180 Summer	10.04	180
240 Summer	8.09	228
360 Summer	5.94	286
480 Summer	4.77	348
600 Summer	4.02	416
720 Summer	3.50	484
960 Summer	2.81	618
1440 Summer	2.05	892
2160 Summer	1.50	1276
2880 Summer	1.20	1620
4320 Summer	0.88	2292
5760 Summer	0.70	2992
7200 Summer	0.59	3680
8640 Summer	0.51	4416
10080 Summer	0.46	5144
15 Winter	55.95	18
30 Winter	36.15	33
60 Winter	22.43	62
120 Winter	13.57	120
180 Winter	10.04	176
240 Winter	8.09	232
360 Winter	5.94	332
480 Winter	4.77	376
600 Winter	4.02	452
720 Winter	3.50	528
960 Winter	2.81	676
1440 Winter	2.05	954
2160 Winter	1.50	1340
2880 Winter	1.20	1672
4320 Winter	0.88	2292
5760 Winter	0.70	3000
7200 Winter	0.59	3744
8640 Winter	0.51	4496
10080 Winter	0.46	5232

Rainfall Details

Region	ENG+WAL	Cv (Summer)	0.750	Summer Storms	Yes
Return Period (years)	10	Cv (Winter)	0.840	Winter Storms	Yes
M5-60 (mm)	18.700	Shortest Storm (mins)	15	Climate Change %	+0
Ratio-R	0.400	Longest Storm (mins)	10080		

Time / Area Diagram

Total Area (ha) = 0.214

Time	(mins)	Area
from:	to:	(ha)
	0	4 0.214

Cellular Storage Details

Infil Coef - Base (m/hr)	0.036000	Safety Factor	2.0	Invert Level (m)	0.000
Infil Coef - Sides (m/hr)	0.036000	Porosity	0.95	Ground Level (m)	0.600

Depth (m)	Area (m ²)	Infil. Area (m ²)	Depth (m)	Area (m ²)	Infil. Area (m ²)	Depth (m)	Area (m ²)	Infil. Area (m ²)	Depth (m)	Area (m ²)	Infil. Area (m ²)	Depth (m)	Area (m ²)	Infil. Area (m ²)
0.00	240.0	240.0	0.60	240.0	278.4	1.20	0.0	278.4	1.80	0.0	278.4	2.40	0.0	278.4
0.10	240.0	246.4	0.70	0.0	278.4	1.30	0.0	278.4	1.90	0.0	278.4	2.50	0.0	278.4
0.20	240.0	252.8	0.80	0.0	278.4	1.40	0.0	278.4	2.00	0.0	278.4			
0.30	240.0	259.2	0.90	0.0	278.4	1.50	0.0	278.4	2.10	0.0	278.4			
0.40	240.0	265.6	1.00	0.0	278.4	1.60	0.0	278.4	2.20	0.0	278.4			
0.50	240.0	272.0	1.10	0.0	278.4	1.70	0.0	278.4	2.30	0.0	278.4			

Note:

Infiltration Rate = 1 x 10 ⁻⁵m/s

Area = 20.0m x 12.0m x 0.6m deep

Green Park Village
CCRC Extra Care
Soakaway

Designed By CMB
Checked By

Source Control W.11.4 net



Half Drain Time : 402 minutes

Storm Duration (mins)		Maximum Filtration (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m³)	Status
15	Summer	1.2	1.2	0.1208	0.1208	27.5	OK
30	Summer	1.2	1.2	0.1547	0.1547	35.3	OK
60	Summer	1.3	1.3	0.1877	0.1877	42.8	OK
120	Summer	1.3	1.3	0.2152	0.2152	49.1	OK
180	Summer	1.3	1.3	0.2262	0.2262	51.6	OK
240	Summer	1.3	1.3	0.2302	0.2302	52.5	OK
360	Summer	1.3	1.3	0.2287	0.2287	52.2	OK
480	Summer	1.3	1.3	0.2257	0.2257	51.5	OK
600	Summer	1.3	1.3	0.2212	0.2212	50.5	OK
720	Summer	1.3	1.3	0.2167	0.2167	49.4	OK
960	Summer	1.3	1.3	0.2062	0.2062	47.0	OK
1440	Summer	1.3	1.3	0.1842	0.1842	42.0	OK
2160	Summer	1.2	1.2	0.1533	0.1533	35.0	OK
2880	Summer	1.2	1.2	0.1263	0.1263	28.8	OK
4320	Summer	1.2	1.2	0.0848	0.0848	19.3	OK
5760	Summer	1.2	1.2	0.0588	0.0588	13.4	OK
7200	Summer	1.2	1.2	0.0477	0.0477	10.8	OK
8640	Summer	1.0	1.0	0.0422	0.0422	9.6	OK
10080	Summer	0.9	0.9	0.0377	0.0377	8.6	OK
15	Winter	1.2	1.2	0.1353	0.1353	30.9	OK
30	Winter	1.3	1.3	0.1742	0.1742	39.7	OK
60	Winter	1.3	1.3	0.2117	0.2117	48.2	OK
120	Winter	1.3	1.3	0.2442	0.2442	55.7	OK
180	Winter	1.3	1.3	0.2582	0.2582	58.9	OK
240	Winter	1.3	1.3	0.2647	0.2647	60.3	OK
360	Winter	1.3	1.3	0.2652	0.2652	60.5	OK
480	Winter	1.3	1.3	0.2602	0.2602	59.3	OK
600	Winter	1.3	1.3	0.2542	0.2542	58.0	OK
720	Winter	1.3	1.3	0.2477	0.2477	56.5	OK
960	Winter	1.3	1.3	0.2327	0.2327	53.0	OK
1440	Winter	1.3	1.3	0.1997	0.1997	45.5	OK
2160	Winter	1.2	1.2	0.1523	0.1523	34.8	OK
2880	Winter	1.2	1.2	0.1123	0.1123	25.6	OK
4320	Winter	1.2	1.2	0.0573	0.0573	13.1	OK
5760	Winter	1.1	1.1	0.0432	0.0432	9.9	OK
7200	Winter	0.9	0.9	0.0367	0.0367	8.3	OK
8640	Winter	0.8	0.8	0.0317	0.0317	7.3	OK
10080	Winter	0.7	0.7	0.0282	0.0282	6.4	OK

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
15 Summer	70.81	19
30 Summer	46.13	33
60 Summer	28.76	62
120 Summer	17.43	122
180 Summer	12.87	182
240 Summer	10.34	240
360 Summer	7.55	320
480 Summer	6.05	380
600 Summer	5.08	442
720 Summer	4.41	508
960 Summer	3.52	646
1440 Summer	2.57	912
2160 Summer	1.87	1316
2880 Summer	1.49	1696
4320 Summer	1.08	2380
5760 Summer	0.86	3056
7200 Summer	0.72	3680
8640 Summer	0.62	4416
10080 Summer	0.55	5144
15 Winter	70.81	18
30 Winter	46.13	33
60 Winter	28.76	62
120 Winter	17.43	120
180 Winter	12.87	178
240 Winter	10.34	234
360 Winter	7.55	344
480 Winter	6.05	442
600 Winter	5.08	474
720 Winter	4.41	550
960 Winter	3.52	702
1440 Winter	2.57	996
2160 Winter	1.87	1404
2880 Winter	1.49	1784
4320 Winter	1.08	2380
5760 Winter	0.86	3008
7200 Winter	0.72	3744
8640 Winter	0.62	4496
10080 Winter	0.55	5152

Green Park Village
CCRC Extra Care
Soakaway

Designed By	CMB
Checked By	

Source Control W.11.4 net



Half Drain Time : 544 minutes

Storm Duration (mins)		Maximum Filtration (l/s)	Maximum Outflow (l/s)	Maximum Water Level (m OD)	Maximum Depth (m)	Maximum Volume (m³)	Status
15 Summer		1.3	1.3	0.1572	0.1572	35.8	OK
30 Summer		1.3	1.3	0.2042	0.2042	46.5	OK
60 Summer		1.3	1.3	0.2497	0.2497	57.0	OK
120 Summer		1.3	1.3	0.2907	0.2907	66.3	OK
180 Summer		1.3	1.3	0.3082	0.3082	70.3	OK
240 Summer		1.3	1.3	0.3162	0.3162	72.1	OK
360 Summer		1.3	1.3	0.3177	0.3177	72.5	OK
480 Summer		1.3	1.3	0.3132	0.3132	71.4	OK
600 Summer		1.3	1.3	0.3077	0.3077	70.1	OK
720 Summer		1.3	1.3	0.3017	0.3017	68.8	OK
960 Summer		1.3	1.3	0.2892	0.2892	66.0	OK
1440 Summer		1.3	1.3	0.2637	0.2637	60.1	OK
2160 Summer		1.3	1.3	0.2272	0.2272	51.8	OK
2880 Summer		1.3	1.3	0.1942	0.1942	44.3	OK
4320 Summer		1.2	1.2	0.1388	0.1388	31.6	OK
5760 Summer		1.2	1.2	0.0973	0.0973	22.2	OK
7200 Summer		1.2	1.2	0.0688	0.0688	15.7	OK
8640 Summer		1.2	1.2	0.0522	0.0522	11.9	OK
10080 Summer		1.1	1.1	0.0462	0.0462	10.5	OK
15 Winter		1.3	1.3	0.1762	0.1762	40.2	OK
30 Winter		1.3	1.3	0.2292	0.2292	52.3	OK
60 Winter		1.3	1.3	0.2817	0.2817	64.2	OK
120 Winter		1.3	1.3	0.3287	0.3287	75.0	OK
180 Winter		1.3	1.3	0.3507	0.3507	80.0	OK
240 Winter		1.3	1.3	0.3617	0.3617	82.4	OK
360 Winter		1.3	1.3	0.3667	0.3667	83.7	OK
480 Winter		1.3	1.3	0.3647	0.3647	83.1	OK
600 Winter		1.3	1.3	0.3572	0.3572	81.5	OK
720 Winter		1.3	1.3	0.3482	0.3482	79.4	OK
960 Winter		1.3	1.3	0.3322	0.3322	75.8	OK
1440 Winter		1.3	1.3	0.2962	0.2962	67.5	OK
2160 Winter		1.3	1.3	0.2417	0.2417	55.1	OK
2880 Winter		1.3	1.3	0.1917	0.1917	43.7	OK
4320 Winter		1.2	1.2	0.1113	0.1113	25.3	OK
5760 Winter		1.2	1.2	0.0598	0.0598	13.6	OK
7200 Winter		1.1	1.1	0.0452	0.0452	10.3	OK
8640 Winter		1.0	1.0	0.0392	0.0392	8.9	OK
10080 Winter		0.8	0.8	0.0347	0.0347	7.9	OK

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
15 Summer	91.67	19
30 Summer	60.26	33
60 Summer	37.78	64
120 Summer	22.92	122
180 Summer	16.90	182
240 Summer	13.54	242
360 Summer	9.83	360
480 Summer	7.84	430
600 Summer	6.57	488
720 Summer	5.69	552
960 Summer	4.52	676
1440 Summer	3.27	952
2160 Summer	2.36	1360
2880 Summer	1.87	1756
4320 Summer	1.35	2504
5760 Summer	1.07	3176
7200 Summer	0.89	3824
8640 Summer	0.77	4488
10080 Summer	0.68	5144
15 Winter	91.67	19
30 Winter	60.26	33
60 Winter	37.78	62
120 Winter	22.92	120
180 Winter	16.90	178
240 Winter	13.54	236
360 Winter	9.83	350
480 Winter	7.84	458
600 Winter	6.57	560
720 Winter	5.69	586
960 Winter	4.52	732
1440 Winter	3.27	1038
2160 Winter	2.36	1468
2880 Winter	1.87	1872
4320 Winter	1.35	2592
5760 Winter	1.07	3168
7200 Winter	0.89	3744
8640 Winter	0.77	4488
10080 Winter	0.68	5144

Micro Drainage®

Designed By CMB
Checked By

Source Control W.11.4 net

Half Drain Time : 741 minutes

Storm Duration (mins)	Rain (mm/hr)	Time-Peak (mins)
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15	Summer	119.17	19
30	Summer	78.33	34
60	Summer	49.11	64
120	Summer	29.80	122
180	Summer	21.97	182
240	Summer	17.60	242
360	Summer	12.78	362
480	Summer	10.19	480
600	Summer	8.54	562
720	Summer	7.39	614
960	Summer	5.88	740
1440	Summer	4.25	996
2160	Summer	3.07	1404
2880	Summer	2.43	1816
4320	Summer	1.75	2592
5760	Summer	1.39	3344
7200	Summer	1.16	4032
8640	Summer	1.00	4672
10080	Summer	0.88	5344
15	Winter	119.17	19
30	Winter	78.33	33
60	Winter	49.11	62
120	Winter	29.80	120
180	Winter	21.97	180
240	Winter	17.60	238
360	Winter	12.78	352
480	Winter	10.19	466
600	Winter	8.54	576
720	Winter	7.39	680
960	Winter	5.88	782
1440	Winter	4.25	1082
2160	Winter	3.07	1532
2880	Winter	2.43	1960
4320	Winter	1.75	2764
5760	Winter	1.39	3464
7200	Winter	1.16	4104
8640	Winter	1.00	4576
10080	Winter	0.88	5144