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3 Worsley Court High Street Worsley Manchester	Spout Farm Preston Road Longridge Existing RunOff	
Date 21/03/2020 File	Designed by srg Checked by	
Micro Drainage		Source Control 2019.1

ICP SUDS Mean Annual Flood

Input

Return Period (years)	100	Soil	0.450
Area (ha)	1.757	Urban	0.000
SAAR (mm)	1047	Region Number	Region 10

Results 1/s

QBAR Rural 12.4
QBAR Urban 12.4

Q100 years 25.7

Q1 year 10.8
Q30 years 21.0
Q100 years 25.7

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Micro Drainage	Network 2019.1	

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	PIMP (%)	100
M5-60 (mm)	18.800	Add Flow / Climate Change (%)	0
Ratio R	0.285	Minimum Backdrop Height (m)	0.000
Maximum Rainfall (mm/hr)	0	Maximum Backdrop Height (m)	0.000
Maximum Time of Concentration (mins)	30	Min Design Depth for Optimisation (m)	1.200
Foul Sewage (l/s/ha)	0.000	Min Vel for Auto Design only (m/s)	1.00
Volumetric Runoff Coeff.	0.750	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.251	4-8	0.613

Total Area Contributing (ha) = 0.864

Total Pipe Volume (m³) = 241.167

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)	Section Type	Auto Design
1.000	37.875	0.095	398.7	0.081	4.00	0.0	0.600	o	1050	Pipe/Conduit	
1.001	19.563	0.049	399.2	0.158	0.00	0.0	0.600	o	1050	Pipe/Conduit	
1.002	18.678	0.047	397.4	0.017	0.00	0.0	0.600	o	1050	Pipe/Conduit	
1.003	9.840	0.025	393.6	0.010	0.00	0.0	0.600	o	1050	Pipe/Conduit	
1.004	9.572	0.024	398.8	0.000	0.00	0.0	0.600	o	1050	Pipe/Conduit	

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	0.00	4.37	82.616	0.081	0.0	0.0	0.0	1.72	1489.1	0.0
1.001	0.00	4.56	82.521	0.239	0.0	0.0	0.0	1.72	1488.0	0.0
1.002	0.00	4.74	82.472	0.256	0.0	0.0	0.0	1.72	1491.5	0.0
1.003	0.00	4.83	82.425	0.266	0.0	0.0	0.0	1.73	1498.8	0.0
1.004	0.00	4.93	82.400	0.266	0.0	0.0	0.0	1.72	1488.8	0.0

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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)	Section Type	Auto Design
2.000	42.223	0.106	398.3	0.078	4.00	0.0	0.600	o	1050	Pipe/Conduit	
1.005	47.360	0.118	401.4	0.131	0.00	0.0	0.600	o	1050	Pipe/Conduit	
1.006	26.363	0.066	399.4	0.110	0.00	0.0	0.600	o	1050	Pipe/Conduit	
3.000	19.622	0.049	400.4	0.176	4.00	0.0	0.600	o	1050	Pipe/Conduit	
1.007	23.424	0.059	397.0	0.033	0.00	0.0	0.600	o	1050	Pipe/Conduit	
1.008	19.197	0.048	399.9	0.070	0.00	0.0	0.600	o	1050	Pipe/Conduit	
1.009	19.342	0.114	170.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.010	33.373	0.196	170.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	
1.011	51.781	0.305	170.0	0.000	0.00	0.0	0.600	o	225	Pipe/Conduit	

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)
2.000	0.00	4.41	82.482	0.078	0.0	0.0	0.0	1.72	1489.8	0.0
1.005	0.00	5.39	82.376	0.475	0.0	0.0	0.0	1.71	1484.1	0.0
1.006	0.00	5.64	82.258	0.585	0.0	0.0	0.0	1.72	1487.7	0.0
3.000	0.00	4.19	82.241	0.176	0.0	0.0	0.0	1.72	1485.8	0.0
1.007	0.00	5.87	82.192	0.794	0.0	0.0	0.0	1.72	1492.2	0.0
1.008	0.00	6.05	82.133	0.864	0.0	0.0	0.0	1.72	1486.7	0.0
1.009	0.00	6.38	82.085	0.864	0.0	0.0	0.0	1.00	39.8	0.0
1.010	0.00	6.93	81.971	0.864	0.0	0.0	0.0	1.00	39.8	0.0
1.011	0.00	7.80	81.775	0.864	0.0	0.0	0.0	1.00	39.8	0.0

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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	1050	1	85.150	82.616	1.484	Open Manhole	1950
1.001	o	1050	2	85.700	82.521	2.129	Open Manhole	2100
1.002	o	1050	3	85.950	82.472	2.428	Open Manhole	2100
1.003	o	1050	4	86.120	82.425	2.645	Open Manhole	2100
1.004	o	1050	5	86.000	82.400	2.550	Open Manhole	2100
2.000	o	1050	6	85.240	82.482	1.708	Open Manhole	2100
1.005	o	1050	7	85.900	82.376	2.474	Open Manhole	2100
1.006	o	1050	8	85.100	82.258	1.792	Open Manhole	2100
3.000	o	1050	9	84.500	82.241	1.209	Open Manhole	2100
1.007	o	1050	10	84.300	82.192	1.058	Open Manhole	2400
1.008	o	1050	11	84.370	82.133	1.187	Open Manhole	2100
1.009	o	225	12	84.150	82.085	1.840	Open Manhole	2400
1.010	o	225	13	84.000	81.971	1.804	Open Manhole	1200
1.011	o	225	14	83.350	81.775	1.350	Open Manhole	1200

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	37.875	398.7	2	85.700	82.521	2.129	Open Manhole	2100
1.001	19.563	399.2	3	85.950	82.472	2.428	Open Manhole	2100
1.002	18.678	397.4	4	86.120	82.425	2.645	Open Manhole	2100
1.003	9.840	393.6	5	86.000	82.400	2.550	Open Manhole	2100
1.004	9.572	398.8	7	85.900	82.376	2.474	Open Manhole	2100
2.000	42.223	398.3	7	85.900	82.376	2.474	Open Manhole	2100
1.005	47.360	401.4	8	85.100	82.258	1.792	Open Manhole	2100
1.006	26.363	399.4	10	84.300	82.192	1.058	Open Manhole	2400
3.000	19.622	400.4	10	84.300	82.192	1.058	Open Manhole	2400
1.007	23.424	397.0	11	84.370	82.133	1.187	Open Manhole	2100
1.008	19.197	399.9	12	84.150	82.085	1.015	Open Manhole	2400
1.009	19.342	170.0	13	84.000	81.971	1.804	Open Manhole	1200
1.010	33.373	170.0	14	83.350	81.775	1.350	Open Manhole	1200
1.011	51.781	170.0		82.490	81.470	0.795	Open Manhole	1050

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Simulation Criteria for Storm

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m³/ha Storage	2.000
Hot Start (mins)	0	Inlet Coefficient	0.800
Hot Start Level (mm)	0	Flow per Person per Day (l/per/day)	0.000
Manhole Headloss Coeff (Global)	0.500	Run Time (mins)	60
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	1

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

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Summer
Return Period (years)	2	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	18.800	Storm Duration (mins)	30
Ratio R	0.285		

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Online Controls for Storm

Complex Manhole: 12, DS/PN: 1.009, Volume (m³): 24.0

Hydro-Brake® Optimum

Unit Reference	MD-SHE-0154-1080-0800-1080
Design Head (m)	0.800
Design Flow (l/s)	10.8
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	154
Invert Level (m)	82.085
Minimum Outlet Pipe Diameter (mm)	225
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.800	10.8	Kick-Flo®	0.574	9.2
Flush-Flo™	0.266	10.8	Mean Flow over Head Range	-	9.1

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	5.5	1.200	13.1	3.000	20.2	7.000	30.4
0.200	10.7	1.400	14.1	3.500	21.8	7.500	31.4
0.300	10.8	1.600	15.0	4.000	23.2	8.000	32.4
0.400	10.5	1.800	15.9	4.500	24.6	8.500	33.3
0.500	10.1	2.000	16.7	5.000	25.9	9.000	34.3
0.600	9.4	2.200	17.4	5.500	27.1	9.500	35.2
0.800	10.8	2.400	18.2	6.000	28.2		
1.000	12.0	2.600	18.9	6.500	29.3		

Hydro-Brake® Optimum

Unit Reference	MD-SHE-0134-8800-1200-8800
Design Head (m)	1.200
Design Flow (l/s)	8.8
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	134
Invert Level (m)	82.785
Minimum Outlet Pipe Diameter (mm)	150

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Hydro-Brake® Optimum

Suggested Manhole Diameter (mm) 1200

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.200	8.8	Kick-Flo®	0.769	7.1
Flush-Flo™	0.355	8.8	Mean Flow over Head Range	-	7.6

The hydrological calculations have been based on the Head/Discharge relationship for the Hydro-Brake® Optimum as specified. Should another type of control device other than a Hydro-Brake Optimum® be utilised then these storage routing calculations will be invalidated

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	4.8	1.200	8.8	3.000	13.6	7.000	20.3
0.200	8.3	1.400	9.5	3.500	14.6	7.500	21.0
0.300	8.7	1.600	10.1	4.000	15.6	8.000	21.7
0.400	8.8	1.800	10.6	4.500	16.5	8.500	22.3
0.500	8.6	2.000	11.2	5.000	17.3	9.000	22.9
0.600	8.4	2.200	11.7	5.500	18.1	9.500	23.6
0.800	7.3	2.400	12.2	6.000	18.9		
1.000	8.1	2.600	12.7	6.500	19.6		

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Storage Structures for Storm Cellular Storage Manhole: 3, DS/PN: 1.002 Invert Level (m) 83.200 Safety Factor 2.0 Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95 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>102.0</td><td>0.0</td><td>0.801</td><td>0.0</td><td>0.0</td></tr><tr><td>0.800</td><td>102.0</td><td>0.0</td><td></td><td></td><td></td></tr></tbody></table>			Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	0.000	102.0	0.0	0.801	0.0	0.0	0.800	102.0	0.0			
Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)															
0.000	102.0	0.0	0.801	0.0	0.0															
0.800	102.0	0.0																		
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1 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor 1.000	Additional Flow - % of Total Flow 0.000
Hot Start (mins) 0	MADD Factor * 10m³/ha Storage 2.000
Hot Start Level (mm) 0	Inlet Coefficient 0.800
Manhole Headloss Coeff (Global) 0.500	Flow per Person per Day (l/per/day) 0.000
Foul Sewage per hectare (l/s) 0.000	

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R 0.285
Region England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.800 Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	1	15 Winter	1	+0%	100/60 Winter				82.690
1.001	2	120 Winter	1	+0%	100/60 Winter				82.668
1.002	3	120 Winter	1	+0%	100/60 Winter				82.668
1.003	4	120 Winter	1	+0%	100/60 Winter				82.668
1.004	5	120 Winter	1	+0%	100/60 Winter				82.668
2.000	6	120 Winter	1	+0%	100/60 Winter				82.668
1.005	7	120 Winter	1	+0%	100/60 Summer				82.668
1.006	8	120 Winter	1	+0%	100/30 Winter				82.667
3.000	9	120 Winter	1	+0%	100/30 Winter				82.666
1.007	10	120 Winter	1	+0%	100/30 Winter				82.666
1.008	11	120 Winter	1	+0%	100/30 Winter				82.665
1.009	12	120 Winter	1	+0%	1/15 Summer				82.664
1.010	13	720 Winter	1	+0%					82.053
1.011	14	720 Winter	1	+0%					81.856

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

PN	US/MH Name	Surcharged		Flooded		Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)			
1.000	1	-0.976	0.000	0.01		9.7	OK	
1.001	2	-0.903	0.000	0.01		10.7	OK	
1.002	3	-0.854	0.000	0.01		11.2	OK	
1.003	4	-0.807	0.000	0.02		11.0	OK	
1.004	5	-0.782	0.000	0.02		10.5	OK	
2.000	6	-0.864	0.000	0.00		3.3	OK	
1.005	7	-0.758	0.000	0.01		17.0	OK	
1.006	8	-0.641	0.000	0.02		16.2	OK	
3.000	9	-0.625	0.000	0.01		7.1	OK	
1.007	10	-0.576	0.000	0.02		16.7	OK	
1.008	11	-0.518	0.000	0.02		14.7	OK	
1.009	12	0.354	0.000	0.30		10.8	SURCHARGED	
1.010	13	-0.143	0.000	0.29		10.8	OK	
1.011	14	-0.144	0.000	0.28		10.8	OK	

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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

Simulation Criteria

Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	0.000
Hot Start (mins)	0	MADD Factor * 10m³/ha Storage	2.000
Hot Start Level (mm)	0	Inlet Coefficient	0.800
Manhole Headloss Coeff (Global)	0.500	Flow per Person per Day (l/per/day)	0.000
Foul Sewage per hectare (l/s)	0.000		

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

Synthetic Rainfall Details

Rainfall Model	FSR	Ratio R	0.285
Region	England and Wales	Cv (Summer)	0.750
M5-60 (mm)	18.800	Cv (Winter)	0.840

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

Profile(s)	Summer and Winter
Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960
Return Period(s) (years)	1, 30, 100
Climate Change (%)	0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	1	180 Winter	30	+0%	100/60 Winter				83.082
1.001	2	180 Winter	30	+0%	100/60 Winter				83.082
1.002	3	180 Winter	30	+0%	100/60 Winter				83.082
1.003	4	180 Winter	30	+0%	100/60 Winter				83.081
1.004	5	180 Winter	30	+0%	100/60 Winter				83.081
2.000	6	180 Winter	30	+0%	100/60 Winter				83.080
1.005	7	180 Winter	30	+0%	100/60 Summer				83.080
1.006	8	180 Winter	30	+0%	100/30 Winter				83.074
3.000	9	180 Winter	30	+0%	100/30 Winter				83.067
1.007	10	180 Winter	30	+0%	100/30 Winter				83.066
1.008	11	180 Winter	30	+0%	100/30 Winter				83.049
1.009	12	180 Winter	30	+0%	1/15 Summer				83.027
1.010	13	180 Winter	30	+0%					82.089
1.011	14	180 Winter	30	+0%					81.891

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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Surcharged		Flooded		Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)			
1.000	1	-0.584	0.000	0.01		6.0	OK	
1.001	2	-0.489	0.000	0.01		13.3	OK	
1.002	3	-0.440	0.000	0.01		12.2	OK	
1.003	4	-0.394	0.000	0.02		10.9	OK	
1.004	5	-0.369	0.000	0.02		9.8	OK	
2.000	6	-0.452	0.000	0.00		5.6	OK	
1.005	7	-0.346	0.000	0.01		15.8	OK	
1.006	8	-0.234	0.000	0.01		14.3	OK	
3.000	9	-0.224	0.000	0.01		13.5	OK	
1.007	10	-0.176	0.000	0.02		19.7	OK	
1.008	11	-0.134	0.000	0.02		21.4	OK	
1.009	12	0.717	0.000	0.56		20.2	SURCHARGED	
1.010	13	-0.107	0.000	0.54		20.2	OK	
1.011	14	-0.109	0.000	0.53		20.2	OK	

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Date 22/03/2020 File SPOUT FARM PROPOSED	Designed by srg Checked by							
Micro Drainage Network 2019.1								
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u> <u>Simulation Criteria</u> Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000 Hot Start Level (mm) 0 Inlet Coefficient 0.800 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000 Foul Sewage per hectare (l/s) 0.000 Number of Input Hydrographs 0 Number of Storage Structures 1 Number of Online Controls 1 Number of Time/Area Diagrams 0 Number of Offline Controls 0 Number of Real Time Controls 0 <u>Synthetic Rainfall Details</u> Rainfall Model FSR Ratio R 0.285 Region England and Wales Cv (Summer) 0.750 M5-60 (mm) 18.800 Cv (Winter) 0.840 Margin for Flood Risk Warning (mm) 300.0 Analysis Timestep 2.5 Second Increment (Extended) DTS Status OFF DVD Status ON Inertia Status ON Profile(s) Summer and Winter Duration(s) (mins) 15, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 Return Period(s) (years) 1, 30, 100 Climate Change (%) 0, 0, 40								
PN	US/MH Name Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
1.000	1 180 Winter	100	+40%	100/60 Winter				84.074
1.001	2 180 Winter	100	+40%	100/60 Winter				84.074
1.002	3 180 Winter	100	+40%	100/60 Winter				84.074
1.003	4 180 Winter	100	+40%	100/60 Winter				84.074
1.004	5 180 Winter	100	+40%	100/60 Winter				84.073
2.000	6 180 Winter	100	+40%	100/60 Winter				84.073
1.005	7 180 Winter	100	+40%	100/60 Summer				84.073
1.006	8 180 Winter	100	+40%	100/30 Winter				84.073
3.000	9 180 Winter	100	+40%	100/30 Winter				84.072
1.007	10 180 Winter	100	+40%	100/30 Winter				84.072
1.008	11 180 Winter	100	+40%	100/30 Winter				84.071
1.009	12 180 Winter	100	+40%	1/15 Summer				84.070
1.010	13 180 Winter	100	+40%					82.108
1.011	14 180 Winter	100	+40%					81.910

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Micro Drainage		Network 2019.1

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Surcharged		Flooded		Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)			
1.000	1	0.408	0.000	0.01		11.2	SURCHARGED	
1.001	2	0.503	0.000	0.03		27.6	SURCHARGED	
1.002	3	0.552	0.000	0.04		39.5	SURCHARGED	
1.003	4	0.599	0.000	0.07		43.8	SURCHARGED	
1.004	5	0.623	0.000	0.07		45.9	SURCHARGED	
2.000	6	0.541	0.000	0.01		13.1	SURCHARGED	
1.005	7	0.647	0.000	0.04		44.9	SURCHARGED	
1.006	8	0.765	0.000	0.04		43.0	SURCHARGED	
3.000	9	0.781	0.000	0.03		28.4	SURCHARGED	
1.007	10	0.830	0.000	0.04		40.2	FLOOD RISK	
1.008	11	0.888	0.000	0.04		35.5	FLOOD RISK	
1.009	12	1.760	0.000	0.71		25.5	FLOOD RISK	
1.010	13	-0.088	0.000	0.68		25.5	OK	
1.011	14	-0.090	0.000	0.67		25.5	OK	