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2nd Floor, Fountain H... 83 Fountain Street Manchester M2 2EE										
Date 07/11/2018 01:42 File 3036 - SITE 3 MD...			Designed by jansk Checked by							
Micro Drainage Network W.12.6.1										
<u>Manhole Schedules for Storm</u>										
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)
1	35.400	0.750	Open Manhole	450	1.000	34.650	225			
2	35.400	1.460	Open Manhole	1050	1.001	33.940	300	1.000	34.015	225
3	34.400	0.450	Open Manhole	150	2.000	33.950	100			
4	34.710	0.990	Open Manhole	1050	1.002	33.720	375	1.001	33.795	300
								2.000	33.795	100
5	35.390	1.770	Open Manhole	1050	1.003	33.620	375	1.002	33.620	375
6	34.390	0.800	Open Manhole	1050	3.000	33.590	375			
7	34.860	1.320	Open Manhole		1.004	33.540	375	1.003	33.540	375
								3.000	33.540	375
8	34.700	0.710	Open Manhole		4.000	33.990	150			
9	34.960	1.462	Junction	0	1.005	33.498	375	1.004	33.498	375
								4.000	33.723	150
10	35.000	0.850	Open Manhole	1050	5.000	34.150	225			
11	34.950	1.080	Open Manhole	1050	5.001	33.870	225	5.000	33.870	225
12	34.800	1.410	Open Manhole		1.006	33.390	375	1.005	33.390	375
								5.001	33.540	225
13	34.800	1.420	Junction		1.007	33.380	-1	1.006	33.380	375
14	35.450	2.220	Junction	0	1.008	33.230	375	1.007	33.230	-1
15	35.290	0.710	Open Manhole	150	6.000	34.580	150			
16	35.490	1.050	Open Manhole		6.001	34.440	225	6.000	34.515	150
17	35.290	0.710	Open Manhole		7.000	34.580	150			
18	35.380	1.160	Junction	0	6.002	34.220	225	6.001	34.220	225
								7.000	34.295	150
19	35.380	1.180	Open Manhole	1050	6.003	34.200	225	6.002	34.200	225
20	35.580	1.480	Open Manhole	1050	6.004	34.100	225	6.003	34.100	225
21	35.450	2.230	Open Manhole	1200	1.009	33.220	300	1.008	33.220	375
								6.004	34.070	225
	35.400	2.270	Open Manhole	0		OUTFALL		1.009	33.130	300
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Micro Drainage		Network W.12.6.1			

Area Summary for Storm

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	-	-	100	0.189	0.189	0.189
1.001	-	-	100	0.035	0.035	0.035
2.000	-	-	100	0.020	0.020	0.020
1.002	-	-	100	0.115	0.115	0.115
1.003	-	-	100	0.048	0.048	0.048
3.000	-	-	100	0.000	0.000	0.000
1.004	-	-	100	0.018	0.018	0.018
4.000	-	-	100	0.027	0.027	0.027
1.005	-	-	100	0.035	0.035	0.035
5.000	-	-	100	0.114	0.114	0.114
5.001	-	-	100	0.000	0.000	0.000
1.006	-	-	100	0.062	0.062	0.062
1.007	-	-	100	0.123	0.123	0.123
1.008	-	-	100	0.000	0.000	0.000
6.000	-	-	100	0.027	0.027	0.027
6.001	-	-	100	0.026	0.026	0.026
7.000	-	-	100	0.014	0.014	0.014
6.002	-	-	100	0.000	0.000	0.000
6.003	-	-	100	0.024	0.024	0.024
6.004	-	-	100	0.038	0.038	0.038
1.009	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.915	0.915	0.915

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)
1.009		35.400	33.130	0.000	0	0

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	Region	England and Wales
Return Period (years)	30	M5-60 (mm)	18.000

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Synthetic Rainfall Details Ratio R 0.335Cv (Winter) 0.840 Profile Type Summer Storm Duration (mins) 30 Cv (Summer) 0.750		
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Online Controls for Storm

Depth/Flow Relationship Manhole: 21, DS/PN: 1.009, Volume (m³): 2.9

Invert Level (m) 33.220

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.033	0.5910	0.457	6.3890	0.882	5.6550	1.306	5.8180
0.065	2.0480	0.490	6.3900	0.914	5.4880	1.339	5.8860
0.098	3.6930	0.522	6.3810	0.947	5.2920	1.371	5.9520
0.131	4.9120	0.555	6.3640	0.980	5.0970	1.404	6.0180
0.163	5.3410	0.588	6.3390	1.012	5.1690	1.437	6.0830
0.196	5.6240	0.620	6.3070	1.045	5.2450	1.469	6.1470
0.229	5.8430	0.653	6.2680	1.078	5.3210	1.502	6.2100
0.261	6.0110	0.686	6.2210	1.110	5.3950	1.535	6.2730
0.294	6.1390	0.718	6.1640	1.143	5.4680	1.567	6.3350
0.327	6.2340	0.751	6.0950	1.176	5.5400	1.600	6.3960
0.359	6.3020	0.784	6.0130	1.208	5.6110	1.760	6.6880
0.392	6.3470	0.816	5.9140	1.241	5.6810	1.920	6.9660
0.424	6.3750	0.849	5.7960	1.273	5.7500		

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Storage Structures for Storm

Tank or Pond Manhole: 6, DS/PN: 3.000

Invert Level (m) 33.590

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	345.1	0.800	674.8

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	1	0.500
1.001	2	0.500
2.000	3	0.500
1.002	4	0.500
1.003	5	0.500
3.000	6	0.500
1.004	7	0.500
4.000	8	0.500
1.005	9	0.000
5.000	10	0.500
5.001	11	0.500
1.006	12	0.500
1.007	13	0.000
1.008	14	0.000
6.000	15	0.500
6.001	16	0.500
7.000	17	0.500
6.002	18	0.000
6.003	19	0.500
6.004	20	0.500
1.009	21	0.500

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

Margin for Flood Risk Warning (mm)

300.0

Analysis Timestep

2.5 Second Increment (Extended)

DTS Status

ON

DVD Status

ON

Inertia Status

ON

Profile(s)

Summer and Winter

Duration(s) (mins)

15, 30, 60, 120, 240, 360, 480, 960, 1440

Return Period(s) (years)

30

Climate Change (%)

0

PN	Storm	Return Period	Climate Change	First X Surcharge	First Y Flood	First Z Overflow	O/F Act.	Lvl Exc.
1.000	15 Winter	30	0%	30/15 Summer				
1.001	60 Winter	30	0%	30/30 Winter				
2.000	60 Winter	30	0%	30/15 Summer				
1.002	30 Winter	30	0%	30/15 Winter				
1.003	30 Winter	30	0%	30/15 Summer				
3.000	240 Winter	30	0%					
1.004	30 Winter	30	0%	30/15 Summer				
4.000	30 Winter	30	0%					
1.005	30 Winter	30	0%					
5.000	15 Winter	30	0%					
5.001	60 Winter	30	0%					
1.006	60 Winter	30	0%	30/15 Summer				
1.007	60 Winter	30	0%					
1.008	120 Summer	30	0%	30/15 Summer				
6.000	15 Winter	30	0%					
6.001	15 Winter	30	0%					
7.000	15 Winter	30	0%					
6.002	15 Winter	30	0%					
6.003	15 Winter	30	0%					
6.004	15 Winter	30	0%	30/15 Summer				
1.009	30 Winter	30	0%	30/15 Summer				

PN	US/MH Name	Water Level (m)	Surch'd Depth (m)	Flooded Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
1.000	1	34.973	0.098	0.000	1.05	0.0	48.1	SURCHARGED
1.001	2	34.283	0.043	0.000	0.44	0.0	33.3	SURCHARGED
2.000	3	34.203	0.153	0.000	0.41	0.0	2.9	FLOOD RISK
1.002	4	34.182	0.087	0.000	0.78	0.0	74.5	SURCHARGED
1.003	5	34.105	0.110	0.000	0.83	0.0	75.5	SURCHARGED
3.000	6	33.949	-0.016	0.000	0.06	0.0	5.0	OK
1.004	7	34.026	0.111	0.000	0.64	0.0	49.1	SURCHARGED
4.000	8	34.060	-0.080	0.000	0.25	0.0	6.2	OK
1.005	9	33.873	0.000	0.000	0.54	0.0	55.7	SURCHARGED*
5.000	10	34.306	-0.069	0.000	0.80	0.0	32.0	OK
5.001	11	34.080	-0.015	0.000	0.22	0.0	17.8	OK
1.006	12	34.068	0.303	0.000	0.60	0.0	49.9	SURCHARGED

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

PN	US/MH Name	Water	Surch'd Depth (m)	Flooded	Flow / Cap.	O'flow (l/s)	Pipe	Status
		Level (m)		Volume (m³)			Flow (l/s)	
1.007	13	34.074	-0.106	0.000	0.03	0.0	66.2	OK*
1.008	14	34.030	0.425	0.000	0.07	0.0	7.2	SURCHARGED*
6.000	15	34.663	-0.067	0.000	0.58	0.0	7.8	OK
6.001	16	34.539	-0.126	0.000	0.38	0.0	15.3	OK
7.000	17	34.615	-0.115	0.000	0.12	0.0	4.0	OK
6.002	18	34.406	-0.039	0.000	0.64	0.0	19.3	OK*
6.003	19	34.397	-0.028	0.000	0.66	0.0	24.9	OK
6.004	20	34.345	0.020	0.000	1.14	0.0	34.2	SURCHARGED
1.009	21	34.066	0.546	0.000	0.08	0.0	6.4	SURCHARGED

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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)	30	Add Flow / Climate Change (%)	0
M5-60 (mm)	18.000	Minimum Backdrop Height (m)	0.200
Ratio R	0.335	Maximum Backdrop Height (m)	1.500
Maximum Rainfall (mm/hr)	20	Min Design Depth for Optimisation (m)	1.200
Foul Sewage (l/s/ha)	0.00	Min Vel for Auto Design only (m/s)	1.00
Volumetric Runoff Coeff.	0.750	Min Slope for Optimisation (1:X)	400
PIMP (%)	100		

Designed with Level Soffits

Time Area Diagram for Storm

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.427	4-8	0.439	8-12	0.049

Total Area Contributing (ha) = 0.915

Total Pipe Volume (m³) = 117.177

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	77.406	0.635	121.9	0.189	5.00	0.0	0.600	o	225
1.001	24.981	0.145	172.3	0.035	0.00	0.0	0.600	o	300
2.000	9.343	0.155	60.3	0.020	5.00	0.0	0.600	o	100
1.002	35.075	0.100	350.8	0.115	0.00	0.0	0.600	o	375
1.003	29.913	0.080	373.9	0.048	0.00	0.0	0.600	o	375

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	20.00	6.09	34.650	0.189	0.0	0.0	0.0	1.18	47.0	10.2
1.001	20.00	6.44	33.940	0.224	0.0	0.0	0.0	1.19	84.5	12.1
2.000	20.00	5.16	33.950	0.020	0.0	0.0	0.0	0.99	7.8	1.1
1.002	20.00	7.05	33.720	0.359	0.0	0.0	0.0	0.96	106.2	19.4
1.003	20.00	7.58	33.620	0.407	0.0	0.0	0.0	0.93	102.8	22.0

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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)
6.003	14.630	0.100	146.3	0.024	0.00	0.0	0.600	o	225
6.004	4.160	0.030	138.7	0.038	0.00	0.0	0.600	o	225
1.009	7.164	0.090	79.6	0.000	0.00	0.0	0.600	o	300

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)
6.003	20.00	5.97	34.200	0.091	0.0	0.0	0.0	1.08	42.9	4.9
6.004	20.00	6.03	34.100	0.129	0.0	0.0	0.0	1.11	44.1	7.0
1.009	20.00	9.29	33.220	0.915	0.0	0.0	0.0	1.76	124.7	49.6

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<u>Manhole Schedules for Storm</u>										
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam.,L*W (mm)	PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)
1	35.400	0.750	Open Manhole	450	1.000	34.650	225			
2	35.400	1.460	Open Manhole	1050	1.001	33.940	300	1.000	34.015	225
3	34.400	0.450	Open Manhole	150	2.000	33.950	100			
4	34.710	0.990	Open Manhole	1050	1.002	33.720	375	1.001	33.795	300
								2.000	33.795	100
5	35.390	1.770	Open Manhole	1050	1.003	33.620	375	1.002	33.620	375
6	34.390	0.800	Open Manhole	1050	3.000	33.590	375			
7	34.860	1.320	Open Manhole		1.004	33.540	375	1.003	33.540	375
								3.000	33.540	375
8	34.700	0.710	Open Manhole		4.000	33.990	150			
9	34.960	1.462	Junction	0	1.005	33.498	375	1.004	33.498	375
								4.000	33.723	150
10	35.000	0.850	Open Manhole	1050	5.000	34.150	225			
11	34.950	1.080	Open Manhole	1050	5.001	33.870	225	5.000	33.870	225
12	34.800	1.410	Open Manhole		1.006	33.390	375	1.005	33.390	375
								5.001	33.540	225
13	34.800	1.420	Junction		1.007	33.380	-1	1.006	33.380	375
14	35.450	2.220	Junction	0	1.008	33.230	375	1.007	33.230	-1
15	35.290	0.710	Open Manhole	150	6.000	34.580	150			
16	35.490	1.050	Open Manhole		6.001	34.440	225	6.000	34.515	150
17	35.290	0.710	Open Manhole		7.000	34.580	150			
18	35.380	1.160	Junction	0	6.002	34.220	225	6.001	34.220	225
								7.000	34.295	150
19	35.380	1.180	Open Manhole	1050	6.003	34.200	225	6.002	34.200	225
20	35.580	1.480	Open Manhole	1050	6.004	34.100	225	6.003	34.100	225
21	35.450	2.230	Open Manhole	1200	1.009	33.220	300	1.008	33.220	375
								6.004	34.070	225
	35.400	2.270	Open Manhole	0		OUTFALL		1.009	33.130	300
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Area Summary for Storm

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
1.000	-	-	100	0.189	0.189	0.189
1.001	-	-	100	0.035	0.035	0.035
2.000	-	-	100	0.020	0.020	0.020
1.002	-	-	100	0.115	0.115	0.115
1.003	-	-	100	0.048	0.048	0.048
3.000	-	-	100	0.000	0.000	0.000
1.004	-	-	100	0.018	0.018	0.018
4.000	-	-	100	0.027	0.027	0.027
1.005	-	-	100	0.035	0.035	0.035
5.000	-	-	100	0.114	0.114	0.114
5.001	-	-	100	0.000	0.000	0.000
1.006	-	-	100	0.062	0.062	0.062
1.007	-	-	100	0.123	0.123	0.123
1.008	-	-	100	0.000	0.000	0.000
6.000	-	-	100	0.027	0.027	0.027
6.001	-	-	100	0.026	0.026	0.026
7.000	-	-	100	0.014	0.014	0.014
6.002	-	-	100	0.000	0.000	0.000
6.003	-	-	100	0.024	0.024	0.024
6.004	-	-	100	0.038	0.038	0.038
1.009	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				0.915	0.915	0.915

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)
1.009		35.400	33.130	0.000	0	0

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	Region	England and Wales
Return Period (years)	30	M5-60 (mm)	18.000

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<u>Synthetic Rainfall Details</u> Ratio R 0.335 Cv (Winter) 0.840 Profile Type Summer Storm Duration (mins) 30 Cv (Summer) 0.750		
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Online Controls for Storm

Depth/Flow Relationship Manhole: 21, DS/PN: 1.009, Volume (m³): 2.9

Invert Level (m) 33.220

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.033	0.5910	0.457	6.3890	0.882	5.6550	1.306	5.8180
0.065	2.0480	0.490	6.3900	0.914	5.4880	1.339	5.8860
0.098	3.6930	0.522	6.3810	0.947	5.2920	1.371	5.9520
0.131	4.9120	0.555	6.3640	0.980	5.0970	1.404	6.0180
0.163	5.3410	0.588	6.3390	1.012	5.1690	1.437	6.0830
0.196	5.6240	0.620	6.3070	1.045	5.2450	1.469	6.1470
0.229	5.8430	0.653	6.2680	1.078	5.3210	1.502	6.2100
0.261	6.0110	0.686	6.2210	1.110	5.3950	1.535	6.2730
0.294	6.1390	0.718	6.1640	1.143	5.4680	1.567	6.3350
0.327	6.2340	0.751	6.0950	1.176	5.5400	1.600	6.3960
0.359	6.3020	0.784	6.0130	1.208	5.6110	1.760	6.6880
0.392	6.3470	0.816	5.9140	1.241	5.6810	1.920	6.9660
0.424	6.3750	0.849	5.7960	1.273	5.7500		

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Storage Structures for Storm

Tank or Pond Manhole: 6, DS/PN: 3.000

Invert Level (m) 33.590

Depth (m)	Area (m ²)	Depth (m)	Area (m ²)
0.000	345.1	0.800	674.8

Manhole Headloss for Storm

PN	US/MH Name	US/MH Headloss
1.000	1	0.500
1.001	2	0.500
2.000	3	0.500
1.002	4	0.500
1.003	5	0.500
3.000	6	0.500
1.004	7	0.500
4.000	8	0.500
1.005	9	0.000
5.000	10	0.500
5.001	11	0.500
1.006	12	0.500
1.007	13	0.000
1.008	14	0.000
6.000	15	0.500
6.001	16	0.500
7.000	17	0.500
6.002	18	0.000
6.003	19	0.500
6.004	20	0.500
1.009	21	0.500

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<u>Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>								
Margin for Flood Risk Warning (mm) 300.0								
Analysis Timestep 2.5 Second Increment (Extended)								
DTS Status ON								
DVD Status ON								
Inertia Status ON								
Profile(s) Summer and Winter								
Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440								
Return Period(s) (years) 100								
Climate Change (%) 30								
PN	Storm	Return Period	Climate Change	First X Surcharge	First Y Flood	First Z Overflow	O/F Act.	Lvl Exc.
1.000	15 Winter	100	+30%	100/15 Summer	100/15 Summer			4
1.001	60 Summer	100	+30%	100/15 Summer				
2.000	30 Winter	100	+30%	100/15 Summer	100/15 Summer			7
1.002	30 Winter	100	+30%	100/15 Summer	100/30 Winter			1
1.003	30 Winter	100	+30%	100/15 Summer				
3.000	480 Winter	100	+30%	100/30 Winter				
1.004	30 Winter	100	+30%	100/15 Summer				
4.000	30 Summer	100	+30%	100/15 Summer	100/30 Summer			
1.005	60 Winter	100	+30%					
5.000	30 Winter	100	+30%	100/15 Summer				
5.001	30 Winter	100	+30%	100/15 Summer				
1.006	30 Winter	100	+30%	100/15 Summer	100/30 Summer			2
1.007	30 Winter	100	+30%					
1.008	60 Winter	100	+30%	100/15 Summer				
6.000	30 Winter	100	+30%	100/15 Summer				
6.001	30 Winter	100	+30%	100/15 Summer				
7.000	30 Winter	100	+30%	100/30 Summer				
6.002	60 Winter	100	+30%					
6.003	30 Winter	100	+30%	100/15 Summer				
6.004	30 Winter	100	+30%	100/15 Summer				
1.009	30 Winter	100	+30%	100/15 Summer				
Water Flooded Pipe								
PN	US/MH Name	Level (m)	Surch'd Depth (m)	Volume (m³)	Flow / Cap.	O'flow (l/s)	Pipe Flow (l/s)	Status
1.000	1	35.405	0.530	4.813	1.25	0.0	57.0	FLOOD
1.001	2	34.756	0.516	0.000	0.89	0.0	67.3	SURCHARGED
2.000	3	34.403	0.353	2.840	1.18	0.0	8.5	FLOOD
1.002	4	34.710	0.615	0.336	1.09	0.0	103.8	FLOOD
1.003	5	34.694	0.699	0.000	1.31	0.0	118.6	SURCHARGED
3.000	6	34.339	0.374	0.000	0.09	0.0	7.8	FLOOD RISK
1.004	7	34.586	0.671	0.000	0.70	0.0	53.6	FLOOD RISK
4.000	8	34.695	0.555	0.012	0.45	0.0	11.3	FLOOD
1.005	9	33.873	0.000	0.000	0.31	0.0	31.6	SURCHARGED*
5.000	10	34.972	0.597	0.000	1.03	0.0	41.4	FLOOD RISK
5.001	11	34.894	0.799	0.000	0.46	0.0	36.9	FLOOD RISK
1.006	12	34.801	1.036	3.050	1.40	0.0	116.6	FLOOD
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Summary of Critical Results by Maximum Level (Rank 1) for Storm

PN	US/MH Name	Water	Surch'd Depth (m)	Flooded	Flow / Cap.	O'flow (l/s)	Pipe	Status
		Level (m)		Volume (m³)			Flow (l/s)	
1.007	13	34.180	0.000	0.000	0.07	0.0	154.5	SURCHARGED*
1.008	14	34.030	0.425	0.000	0.06	0.0	6.7	SURCHARGED*
6.000	15	35.057	0.327	0.000	0.79	0.0	10.6	FLOOD RISK
6.001	16	35.034	0.369	0.000	0.50	0.0	19.9	SURCHARGED
7.000	17	35.019	0.289	0.000	0.16	0.0	5.5	FLOOD RISK
6.002	18	34.445	0.000	0.000	0.63	0.0	18.8	SURCHARGED*
6.003	19	35.005	0.580	0.000	0.90	0.0	33.9	SURCHARGED
6.004	20	34.953	0.628	0.000	1.59	0.0	47.6	SURCHARGED
1.009	21	34.984	1.464	0.000	0.09	0.0	6.4	SURCHARGED