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York House Edison Park Dorcan Way Swindon SN3 3RB	Parcel KMF, Bicester  SW NW1	
Date Nov 2018 File 6008-SW NW1.mdx	Designed by NP Checked by RB	
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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for 6008-SW NW1.SWS











Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and Wales

Return Period (years)	100	Add Flow / Climate Change (%)	0
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.900
Ratio R	0.400	Maximum Backdrop Height (m)	1.500
Maximum Rainfall (mm/hr)	0	Min Design Depth for Optimisation (m)	1.200
Maximum Time of Concentration (mins)	30	Min Vel for Auto Design only (m/s)	1.00
Foul Sewage (l/s/ha)	0.000	Min Slope for Optimisation (1:X)	500
Volumetric Runoff Coeff.	0.750		


Designed with Level Soffits

Network Design Table for 6008-SW NW1.SWS

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	55.887	0.725	77.1	0.071	5.00	0.0	0.600	o	150	Pipe/Conduit	
1.001	30.906	0.700	44.2	0.047	0.00	0.0	0.600	o	225	Pipe/Conduit	
2.000	26.435	0.165	160.2	0.120	5.00	0.0	0.600	o	225	Pipe/Conduit	
2.001	5.905	0.060	98.4	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.002	31.337	0.200	156.7	0.045	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.003	25.552	0.225	113.6	0.063	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.004	10.449	0.150	69.7	0.019	0.00	0.0	0.600	o	300	Pipe/Conduit	
1.005	30.364	0.100	303.6	0.052	0.00	0.0	0.600	o	750	Pipe/Conduit	
1.006	15.602	0.050	312.0	0.037	0.00	0.0	0.600	o	750	Pipe/Conduit	
1.007	29.901	0.100	299.0	0.073	0.00	0.0	0.600	o	750	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	5.81	71.400	0.071	0.0	0.0	0.0	1.15	20.3	0.0
1.001	0.00	6.07	70.600	0.118	0.0	0.0	0.0	1.97	78.5	0.0
2.000	0.00	5.43	70.200	0.120	0.0	0.0	0.0	1.03	41.0	0.0
2.001	0.00	5.52	70.035	0.120	0.0	0.0	0.0	1.01	17.9	0.0
1.002	0.00	6.49	69.825	0.283	0.0	0.0	0.0	1.25	88.6	0.0
1.003	0.00	6.78	69.625	0.346	0.0	0.0	0.0	1.47	104.2	0.0
1.004	0.00	6.87	69.400	0.365	0.0	0.0	0.0	1.89	133.3	0.0
1.005	0.00	7.19	68.800	0.417	0.0	0.0	0.0	1.60	707.2	0.0
1.006	0.00	7.35	68.700	0.454	0.0	0.0	0.0	1.58	697.5	0.0
1.007	0.00	7.66	68.650	0.527	0.0	0.0	0.0	1.61	712.7	0.0

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Network Design Table for 6008-SW NW1.SWS

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
1.008	7.436	0.329	22.6	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	🔒

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	E Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
1.008	0.00	7.70	68.550	0.527	0.0	0.0	0.0	3.32	234.8	0.0

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PIPELINE SCHEDULES for 6008-SW NW1.SWS

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	150	1	72.940	71.400	1.390	Open Manhole	1200
1.001	o	225	2	73.358	70.600	2.533	Open Manhole	1200
2.000	o	225	11	72.150	70.200	1.725	Open Manhole	1200
2.001	o	150	12	72.160	70.035	1.975	Open Manhole	1200
1.002	o	300	3	72.762	69.825	2.637	Open Manhole	1200
1.003	o	300	4	71.978	69.625	2.053	Open Manhole	1200
1.004	o	300	5	71.429	69.400	1.729	Open Manhole	1200
1.005	o	750	6	71.429	68.800	1.879	Open Manhole	1800
1.006	o	750	7	71.527	68.700	2.077	Open Manhole	1800
1.007	o	750	8	71.325	68.650	1.925	Open Manhole	1800
1.008	o	300	9	71.000	68.550	2.150	Open Manhole	1800

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	55.887	77.1	2	73.358	70.675	2.533	Open Manhole	1200
1.001	30.906	44.2	3	72.762	69.900	2.637	Open Manhole	1200
2.000	26.435	160.2	12	72.160	70.035	1.900	Open Manhole	1200
2.001	5.905	98.4	3	72.762	69.975	2.637	Open Manhole	1200
1.002	31.337	156.7	4	71.978	69.625	2.053	Open Manhole	1200
1.003	25.552	113.6	5	71.429	69.400	1.729	Open Manhole	1200
1.004	10.449	69.7	6	71.429	69.250	1.879	Open Manhole	1800
1.005	30.364	303.6	7	71.527	68.700	2.077	Open Manhole	1800
1.006	15.602	312.0	8	71.325	68.650	1.925	Open Manhole	1800
1.007	29.901	299.0	9	71.000	68.550	1.700	Open Manhole	1800
1.008	7.436	22.6	10	70.883	68.221	2.362	Open Manhole	1500

Free Flowing Outfall Details for 6008-SW NW1.SWS

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.008	10	70.883	68.221	68.071	1500	0

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Simulation Criteria for 6008-SW NW1.SWS

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m <sup>3</sup> /ha Storage	2.000
Hot Start (mins)	0	Inlet Coeffiecient	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	2	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)	100	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	20.000	Storm Duration (mins)	30
Ratio R	0.400		

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Online Controls for 6008-SW NW1.SWS

Orifice Manhole: 12, DS/PN: 2.001, Volume (m<sup>3</sup>): 3.4

Diameter (m) 0.025 Discharge Coefficient 0.600 Invert Level (m) 70.035

Complex Manhole: 9, DS/PN: 1.008, Volume (m<sup>3</sup>): 18.6

Hydro-Brake Optimum®

Unit Reference MD-SHE-0157-1300-1500-1300  
 Design Head (m) 1.500  
 Design Flow (l/s) 13.0  
 Flush-Flo™ Calculated  
 Objective Minimise upstream storage  
 Application Surface  
 Sump Available Yes  
 Diameter (mm) 157  
 Invert Level (m) 68.550  
 Minimum Outlet Pipe Diameter (mm) 225  
 Suggested Manhole Diameter (mm) 1500

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.500	13.0
Flush-Flo™	0.443	13.0
Kick-Flo®	0.950	10.5
Mean Flow over Head Range	-	11.3

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	5.6	1.200	11.7	3.000	18.1	7.000	27.1
0.200	11.7	1.400	12.6	3.500	19.4	7.500	28.0
0.300	12.7	1.600	13.4	4.000	20.7	8.000	28.9
0.400	13.0	1.800	14.2	4.500	21.9	8.500	29.8
0.500	13.0	2.000	14.9	5.000	23.1	9.000	30.6
0.600	12.8	2.200	15.6	5.500	24.1	9.500	31.4
0.800	12.0	2.400	16.2	6.000	25.2		
1.000	10.7	2.600	16.9	6.500	26.2		

Weir

Discharge Coef 0.544 Width (m) 1.500 Invert Level (m) 70.050

York House Edison Park  
Dorcan Way  
Swindon SN3 3RB

Parcel KMF, Bicester  
SW NW1



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Storage Structures for 6008-SW NW1.SWS

Cellular Storage Manhole: 11, DS/PN: 2.000

Invert Level (m) 70.200 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 <sup>2</sup> )	Inf. Area (m <sup>2</sup> )	Depth (m)	Area (m <sup>2</sup> )	Inf. Area (m <sup>2</sup> )
0.000	88.0	88.0	0.801	0.0	118.0
0.800	88.0	118.0			

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1 year Return Period Summary of Critical Results by Maximum Level (Rank 1)  
for 6008-SW NW1.SWS

Simulation Criteria

Areal Reduction Factor 1.000    Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0    MADD Factor \* 10m<sup>3</sup>/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 2    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 0.400  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm)    20.000 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, 240, 360, 480, 960, 1440  
Return Period(s) (years)    1, 10, 30, 100  
Climate Change (%)    0, 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	1	15 Winter	1	+0%	30/15 Summer	100/15 Winter		
1.001	2	15 Winter	1	+0%	100/15 Summer			
2.000	11	240 Winter	1	+0%	10/60 Winter			
2.001	12	240 Winter	1	+0%	1/15 Summer			
1.002	3	15 Winter	1	+0%	30/30 Winter			
1.003	4	15 Winter	1	+0%	30/15 Winter			
1.004	5	15 Winter	1	+0%	10/30 Winter			
1.005	6	30 Winter	1	+0%	10/30 Winter			
1.006	7	30 Winter	1	+0%	10/15 Winter			
1.007	8	30 Winter	1	+0%	10/15 Winter			
1.008	9	30 Winter	1	+0%	1/15 Summer			

PN	US/MH Name	Water Surcharged			Flooded		Pipe		Level Exceeded
		Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Flow (l/s)	Flow (l/s)	Status	
1.000	1	71.475	-0.075	0.000	0.50	9.9		OK	1


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1 year Return Period Summary of Critical Results by Maximum Level (Rank 1)  
for 6008-SW NW1.SWS

PN	US/MH Name	Water	Surcharged	Flooded	Pipe		Status	Level Exceeded
		Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)		
1.001	2	70.669	-0.156	0.000	0.21	15.3	OK	
2.000	11	70.334	-0.091	0.000	0.02	0.9	OK	
2.001	12	70.333	0.148	0.000	0.05	0.7	SURCHARGED	
1.002	3	69.929	-0.196	0.000	0.25	20.6	OK	
1.003	4	69.737	-0.188	0.000	0.30	27.6	OK	
1.004	5	69.514	-0.186	0.000	0.31	29.8	OK	
1.005	6	69.057	-0.493	0.000	0.05	29.5	OK	
1.006	7	69.055	-0.395	0.000	0.05	24.1	OK	
1.007	8	69.054	-0.346	0.000	0.05	25.2	OK	
1.008	9	69.049	0.199	0.000	0.09	12.7	SURCHARGED	



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10 year Return Period Summary of Critical Results by Maximum Level (Rank 1)  
for 6008-SW NW1.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0 MADD Factor \* 10m<sup>3</sup>/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 2 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 0.400  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm) 20.000 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, 240, 360, 480, 960, 1440  
Return Period(s) (years) 1, 10, 30, 100  
Climate Change (%) 0, 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	1	15 Winter	10	+0%	30/15 Summer	100/15 Winter		
1.001	2	15 Winter	10	+0%	100/15 Summer			
2.000	11	240 Winter	10	+0%	10/60 Winter			
2.001	12	240 Winter	10	+0%	1/15 Summer			
1.002	3	15 Winter	10	+0%	30/30 Winter			
1.003	4	60 Winter	10	+0%	30/15 Winter			
1.004	5	60 Winter	10	+0%	10/30 Winter			
1.005	6	60 Winter	10	+0%	10/30 Winter			
1.006	7	60 Winter	10	+0%	10/15 Winter			
1.007	8	60 Winter	10	+0%	10/15 Winter			
1.008	9	60 Winter	10	+0%	1/15 Summer			


PN	US/MH Name	Water Surcharged			Flooded		Pipe		Level Exceeded
		Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Flow (l/s)	Flow (l/s)	Status	
1.000	1	71.518	-0.032	0.000	0.94	18.6		OK	1

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10 year Return Period Summary of Critical Results by Maximum Level (Rank 1)  
for 6008-SW NW1.SWS

PN	US/MH Name	Water	Surcharged	Flooded	Pipe		Status	Level Exceeded
		Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Overflow (l/s)		
1.001	2	70.704	-0.121	0.000	0.42	30.8	OK	
2.000	11	70.485	0.060	0.000	0.07	2.8	SURCHARGED	
2.001	12	70.577	0.392	0.000	0.06	0.9	SURCHARGED	
1.002	3	69.985	-0.140	0.000	0.54	43.5	OK	
1.003	4	69.832	-0.093	0.000	0.34	31.5	OK	
1.004	5	69.824	0.124	0.000	0.35	34.1	SURCHARGED	
1.005	6	69.819	0.269	0.000	0.07	38.6	SURCHARGED	
1.006	7	69.818	0.368	0.000	0.06	26.2	SURCHARGED	
1.007	8	69.816	0.416	0.000	0.05	26.9	SURCHARGED	
1.008	9	69.815	0.965	0.000	0.09	12.7	SURCHARGED	

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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)  
for 6008-SW NW1.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0 MADD Factor \* 10m<sup>3</sup>/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 2 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 0.400  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm) 20.000 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, 240, 360, 480, 960, 1440  
Return Period(s) (years) 1, 10, 30, 100  
Climate Change (%) 0, 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	1	15 Winter	30	+0%	30/15 Summer	100/15 Winter		
1.001	2	15 Winter	30	+0%	100/15 Summer			
2.000	11	240 Winter	30	+0%	10/60 Winter			
2.001	12	240 Winter	30	+0%	1/15 Summer			
1.002	3	30 Winter	30	+0%	30/30 Winter			
1.003	4	30 Winter	30	+0%	30/15 Winter			
1.004	5	30 Winter	30	+0%	10/30 Winter			
1.005	6	30 Winter	30	+0%	10/30 Winter			
1.006	7	30 Winter	30	+0%	10/15 Winter			
1.007	8	30 Winter	30	+0%	10/15 Winter			
1.008	9	30 Winter	30	+0%	1/15 Summer			


PN	US/MH Name	Water Surcharged			Flooded		Pipe		Level Exceeded
		Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap.	Flow (l/s)	Status		
1.000	1	71.720	0.170	0.000	1.10	21.7	SURCHARGED	1	

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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1)  
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PN	US/MH Name	Water	Surcharged	Flooded	Flow / Cap.	Overflow	Pipe	Status	Level Exceeded
		Level (m)	Depth (m)	Volume (m <sup>3</sup> )		Flow (l/s)	Flow (l/s)		
1.001	2	70.714	-0.111	0.000	0.50		36.7	OK	
2.000	11	70.585	0.160	0.000	0.08		3.2	SURCHARGED	
2.001	12	70.697	0.512	0.000	0.06		1.0	SURCHARGED	
1.002	3	70.296	0.171	0.000	0.54		43.3	SURCHARGED	
1.003	4	70.272	0.347	0.000	0.64		59.7	SURCHARGED	
1.004	5	70.195	0.495	0.000	0.66		64.3	SURCHARGED	
1.005	6	70.114	0.564	0.000	0.13		70.7	SURCHARGED	
1.006	7	70.109	0.659	0.000	0.09		41.5	SURCHARGED	
1.007	8	70.106	0.706	0.000	0.08		41.7	SURCHARGED	
1.008	9	70.100	1.250	0.000	0.29		41.2	SURCHARGED	

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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for 6008-SW NW1.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000  
Hot Start (mins) 0 MADD Factor \* 10m<sup>3</sup>/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 2 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 0.400  
Region England and Wales Cv (Summer) 0.750  
M5-60 (mm) 20.000 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, 240, 360, 480, 960, 1440  
Return Period(s) (years) 1, 10, 30, 100  
Climate Change (%) 0, 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.
1.000	1	15 Winter	100	+40%	30/15 Summer	100/15 Winter		
1.001	2	15 Winter	100	+40%	100/15 Summer			
2.000	11	360 Winter	100	+40%	10/60 Winter			
2.001	12	360 Winter	100	+40%	1/15 Summer			
1.002	3	15 Winter	100	+40%	30/30 Winter			
1.003	4	15 Winter	100	+40%	30/15 Winter			
1.004	5	15 Winter	100	+40%	10/30 Winter			
1.005	6	15 Summer	100	+40%	10/30 Winter			
1.006	7	15 Summer	100	+40%	10/15 Winter			
1.007	8	15 Winter	100	+40%	10/15 Winter			
1.008	9	15 Winter	100	+40%	1/15 Summer			

PN	US/MH Name	Water Surcharged			Flooded		Pipe Flow (l/s)	Pipe Status	Level Exceeded
		Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)			
1.000	1	72.940	1.390	0.292	1.61	31.8	FLOOD	1	

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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for 6008-SW NW1.SWS

PN	US/MH Name	Water		Surcharged		Flooded		Pipe Flow (l/s)	Status	Level Exceeded
		Level (m)	Depth (m)	Volume (m <sup>3</sup> )	Flow / Cap. (l/s)	Overflow (l/s)				
1.001	2	71.103	0.278	0.000	0.78		57.4	SURCHARGED		
2.000	11	70.988	0.563	0.000	0.09		3.5	SURCHARGED		
2.001	12	71.100	0.915	0.000	0.09		1.3	SURCHARGED		
1.002	3	70.818	0.693	0.000	0.95		76.8	SURCHARGED		
1.003	4	70.692	0.767	0.000	1.12		104.7	SURCHARGED		
1.004	5	70.456	0.756	0.000	1.03		99.9	SURCHARGED		
1.005	6	70.289	0.739	0.000	0.21		116.4	SURCHARGED		
1.006	7	70.273	0.823	0.000	0.26		118.0	SURCHARGED		
1.007	8	70.225	0.825	0.000	0.29		160.4	SURCHARGED		
1.008	9	70.203	1.353	0.000	1.12		160.2	SURCHARGED		