

400 Longwater
Green Park



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Network 2015.1

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	k (mm)	HYD SECT	DIA (mm)
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200.000	32.434	0.130	249.5	0.039	4.00	0.600	o	225
200.001	56.590	0.225	251.5	0.028	0.00	0.600	o	225
201.000	12.745	0.050	254.9	0.075	4.00	0.600	o	225
201.001	48.342	0.195	247.9	0.000	0.00	0.600	o	225
200.002	14.895	0.060	248.3	0.395	0.00	0.600	o	225
200.003	1.842	0.010	184.2	0.000	0.00	0.600	\	-2
202.000	45.900	0.185	248.1	0.035	4.00	0.600	\	-1
202.001	10.090	0.060	168.2	0.000	0.00	0.600	o	225
200.004	11.000	0.045	244.4	0.008	0.00	0.600	\	-2
203.000	3.973	0.025	158.9	0.000	4.00	0.600	o	225
203.001	7.500	0.045	166.7	0.437	0.00	0.600	o	225
200.005	25.663	0.105	244.4	0.006	0.00	0.600	\	-2
200.006	1.800	0.010	180.0	0.000	0.00	0.600	o	225
200.007	39.164	0.160	244.8	0.009	0.00	0.600	\	-2
204.000	13.466	0.054	249.4	0.075	4.00	0.600	o	225
204.001	53.243	0.215	247.6	0.000	0.00	0.600	o	225
204.002	6.496	0.040	162.4	0.190	0.00	0.600	o	225
200.008	2.973	0.015	198.2	0.010	0.00	0.600	\	-2
200.009	15.882	0.095	167.2	0.000	0.00	0.600	o	225

PN	US/MH Name	US/CL (m)	US/IL (m)	US C.Depth (m)	DS/CL (m)	DS/IL (m)	DS C.Depth (m)	Ctrl	US/MH (mm)
200.000	200	41.000	39.540	1.235	41.000	39.410	1.365		1200
200.001	201	41.000	39.410	1.365	40.250	39.185	0.840		1200
201.000	202	40.500	39.430	0.845	40.250	39.380	0.645		1200
201.001	203	40.250	39.380	0.645	40.250	39.185	0.840		1200
200.002	204	40.250	39.185	0.840	40.250	39.125	0.900	Hydro-Brake®	1500
200.003	205	40.250	39.075	0.455	40.250	39.065	0.465		0
202.000	206	40.300	39.360	-0.060	40.200	39.175	0.025		0
202.001	207	40.200	39.175	0.800	40.250	39.115	0.910	Orifice	0
200.004	208	40.250	39.065	0.960	40.200	39.020	0.955		0
203.000	209	40.250	39.140	0.885	40.250	39.115	0.910		1200
203.001	210	40.250	39.115	0.910	40.200	39.070	0.905	Hydro-Brake®	1500
200.005	211	40.200	39.020	0.955	40.200	38.915	1.060		0
200.006	212	40.200	38.915	1.060	40.200	38.905	1.070	Hydro-Brake®	1500
200.007	213	40.200	38.855	1.120	39.520	38.695	0.600		0
204.000	214	39.730	39.054	0.451	39.700	39.000	0.475		1200
204.001	215	39.700	39.000	0.475	39.640	38.785	0.630		1200
204.002	216	39.640	38.785	0.630	39.520	38.745	0.550	Hydro-Brake®	1500
200.008	217	39.520	38.695	0.600	39.400	38.680	0.495		0
200.009	218	39.400	38.680	0.495	39.130	38.585	0.320	Hydro-Brake®	1500

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Conduit Sections for SOUTHERN

NOTE: Diameters less than 66 refer to section numbers of hydraulic conduits. These conduits are marked by the symbols:- [] box culvert, \ / open channel, oo dual pipe, ooo triple pipe, O egg.

Section numbers < 0 are taken from user conduit table

Section Number	Conduit Type	Major Dimn. (mm)	Minor Dimn. (mm)	Side Slope (Deg)	Corner Splay (mm)	4*Hyd Radius (m)	XSect Area (m ²)
-1	\ /	3000	1000			1.664	1.500
-2	\ /	2880	720			1.288	1.037

Free Flowing Outfall Details for SOUTHERN

Outfall Pipe Number	Outfall Name	C. Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
200.009		39.130	38.585	0.000	0	0

Simulation Criteria for SOUTHERN

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 10m ³ /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 Offline Controls	0
Number of Online Controls	6	Number of Storage Structures	5
		Number of Time/Area Diagrams	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)	18.900	Storm Duration (mins)	30
Ratio R	0.400		

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Online Controls for SOUTHERN

Hydro-Brake Optimum® Manhole: 204, DS/PN: 200.002, Volume (m³): 5.9

Unit Reference MD-SHE-0092-3500-0725-3500
Design Head (m) 0.725
Design Flow (l/s) 3.5
Flush-Flo™ Calculated
Objective Minimise upstream storage
Diameter (mm) 92
Invert Level (m) 39.185
Minimum Outlet Pipe Diameter (mm) 150
Suggested Manhole Diameter (mm) 1200

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.725	3.4	Kick-Flo®	0.479	2.8
Flush-Flo™	0.215	3.4	Mean Flow over Head Range	-	2.9

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)	Depth (m)	Flow (l/s)
0.100	2.9	0.800	3.6	2.000	5.5	4.000	7.6	7.000	9.9
0.200	3.4	1.000	4.0	2.200	5.7	4.500	8.0	7.500	10.2
0.300	3.4	1.200	4.3	2.400	6.0	5.000	8.4	8.000	10.6
0.400	3.2	1.400	4.6	2.600	6.2	5.500	8.8	8.500	10.9
0.500	2.9	1.600	4.9	3.000	6.6	6.000	9.2	9.000	11.2
0.600	3.1	1.800	5.2	3.500	7.1	6.500	9.6	9.500	11.5

Orifice Manhole: 207, DS/PN: 202.001, Volume (m³): 68.9

Diameter (m) 0.100 Discharge Coefficient 0.600 Invert Level (m) 39.175

Hydro-Brake Optimum® Manhole: 210, DS/PN: 203.001, Volume (m³): 2.1

Unit Reference MD-SHE-0102-4000-0450-4000
Design Head (m) 0.450
Design Flow (l/s) 4.0
Flush-Flo™ Calculated
Objective Minimise upstream storage
Diameter (mm) 102
Invert Level (m) 39.115
Minimum Outlet Pipe Diameter (mm) 150
Suggested Manhole Diameter (mm) 1200

Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	0.450	3.9	Kick-Flo®	0.333	3.4
Flush-Flo™	0.160	3.9	Mean Flow over Head Range	-	3.2

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)	Depth (m)	Flow (l/s)
0.100	3.4	0.800	5.2	2.000	7.9	4.000	11.0	7.000	14.4
0.200	3.9	1.000	5.7	2.200	8.3	4.500	11.6	7.500	15.0
0.300	3.7	1.200	6.2	2.400	8.6	5.000	12.2	8.000	15.5
0.400	3.7	1.400	6.7	2.600	9.0	5.500	12.8	8.500	15.9
0.500	4.1	1.600	7.1	3.000	9.6	6.000	13.4	9.000	16.4
0.600	4.5	1.800	7.5	3.500	10.3	6.500	13.9	9.500	16.8

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Hydro-Brake Optimum® Manhole: 212, DS/PN: 200.006, Volume (m³): 28.1 Unit Reference MD-SHE-0090-4000-1280-4000 Design Head (m) 1.280 Design Flow (l/s) 4.0 Flush-Flo™ Calculated Objective Minimise upstream storage Diameter (mm) 90 Invert Level (m) 38.915 Minimum Outlet Pipe Diameter (mm) 150 Suggested Manhole Diameter (mm) 1200 <table><tr><td>Control Points</td><td>Head (m)</td><td>Flow (l/s)</td><td>Control Points</td><td>Head (m)</td><td>Flow (l/s)</td></tr><tr><td>Design Point (Calculated)</td><td>1.280</td><td>4.0</td><td>Kick-Flo®</td><td>0.783</td><td>3.2</td></tr><tr><td>Flush-Flo™</td><td>0.381</td><td>4.0</td><td>Mean Flow over Head Range</td><td>-</td><td>3.5</td></tr></table> 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 <table><tr><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td></tr><tr><td>0.100</td><td>2.8</td><td>0.800</td><td>3.2</td><td>2.000</td><td>4.9</td><td>4.000</td><td>6.8</td><td>7.000</td><td>8.8</td></tr><tr><td>0.200</td><td>3.7</td><td>1.000</td><td>3.5</td><td>2.200</td><td>5.1</td><td>4.500</td><td>7.1</td><td>7.500</td><td>9.1</td></tr><tr><td>0.300</td><td>3.9</td><td>1.200</td><td>3.9</td><td>2.400</td><td>5.3</td><td>5.000</td><td>7.5</td><td>8.000</td><td>9.4</td></tr><tr><td>0.400</td><td>4.0</td><td>1.400</td><td>4.1</td><td>2.600</td><td>5.5</td><td>5.500</td><td>7.9</td><td>8.500</td><td>9.7</td></tr><tr><td>0.500</td><td>3.9</td><td>1.600</td><td>4.4</td><td>3.000</td><td>5.9</td><td>6.000</td><td>8.2</td><td>9.000</td><td>9.9</td></tr><tr><td>0.600</td><td>3.8</td><td>1.800</td><td>4.7</td><td>3.500</td><td>6.3</td><td>6.500</td><td>8.5</td><td>9.500</td><td>10.2</td></tr></table> Hydro-Brake Optimum® Manhole: 216, DS/PN: 204.002, Volume (m³): 3.6 Unit Reference MD-SHE-0086-3000-0725-3000 Design Head (m) 0.725 Design Flow (l/s) 3.0 Flush-Flo™ Calculated Objective Minimise upstream storage Diameter (mm) 86 Invert Level (m) 38.785 Minimum Outlet Pipe Diameter (mm) 100 Suggested Manhole Diameter (mm) 1200 <table><tr><td>Control Points</td><td>Head (m)</td><td>Flow (l/s)</td><td>Control Points</td><td>Head (m)</td><td>Flow (l/s)</td></tr><tr><td>Design Point (Calculated)</td><td>0.725</td><td>3.0</td><td>Kick-Flo®</td><td>0.474</td><td>2.5</td></tr><tr><td>Flush-Flo™</td><td>0.214</td><td>3.0</td><td>Mean Flow over Head Range</td><td>-</td><td>2.6</td></tr></table> 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 <table><tr><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td><td>Depth (m)</td><td>Flow (l/s)</td></tr><tr><td>0.100</td><td>2.6</td><td>0.800</td><td>3.1</td><td>2.000</td><td>4.8</td><td>4.000</td><td>6.6</td><td>7.000</td><td>8.6</td></tr><tr><td>0.200</td><td>3.0</td><td>1.000</td><td>3.5</td><td>2.200</td><td>5.0</td><td>4.500</td><td>7.0</td><td>7.500</td><td>8.9</td></tr><tr><td>0.300</td><td>2.9</td><td>1.200</td><td>3.8</td><td>2.400</td><td>5.2</td><td>5.000</td><td>7.3</td><td>8.000</td><td>9.2</td></tr><tr><td>0.400</td><td>2.8</td><td>1.400</td><td>4.0</td><td>2.600</td><td>5.4</td><td>5.500</td><td>7.7</td><td>8.500</td><td>9.4</td></tr><tr><td>0.500</td><td>2.5</td><td>1.600</td><td>4.3</td><td>3.000</td><td>5.8</td><td>6.000</td><td>8.0</td><td>9.000</td><td>9.7</td></tr><tr><td>0.600</td><td>2.7</td><td>1.800</td><td>4.5</td><td>3.500</td><td>6.2</td><td>6.500</td><td>8.3</td><td>9.500</td><td>10.0</td></tr></table> Hydro-Brake Optimum® Manhole: 218, DS/PN: 200.009, Volume (m³): 3.6 Unit Reference MD-SHE-0110-5000-0720-5000 Design Head (m) 0.720 Design Flow (l/s) 5.0 Flush-Flo™ Calculated Objective Minimise upstream storage Diameter (mm) 110 Invert Level (m) 38.680 Minimum Outlet Pipe Diameter (mm) 150 Suggested Manhole Diameter (mm) 1200						Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)	Design Point (Calculated)	1.280	4.0	Kick-Flo®	0.783	3.2	Flush-Flo™	0.381	4.0	Mean Flow over Head Range	-	3.5	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	0.100	2.8	0.800	3.2	2.000	4.9	4.000	6.8	7.000	8.8	0.200	3.7	1.000	3.5	2.200	5.1	4.500	7.1	7.500	9.1	0.300	3.9	1.200	3.9	2.400	5.3	5.000	7.5	8.000	9.4	0.400	4.0	1.400	4.1	2.600	5.5	5.500	7.9	8.500	9.7	0.500	3.9	1.600	4.4	3.000	5.9	6.000	8.2	9.000	9.9	0.600	3.8	1.800	4.7	3.500	6.3	6.500	8.5	9.500	10.2	Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)	Design Point (Calculated)	0.725	3.0	Kick-Flo®	0.474	2.5	Flush-Flo™	0.214	3.0	Mean Flow over Head Range	-	2.6	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	0.100	2.6	0.800	3.1	2.000	4.8	4.000	6.6	7.000	8.6	0.200	3.0	1.000	3.5	2.200	5.0	4.500	7.0	7.500	8.9	0.300	2.9	1.200	3.8	2.400	5.2	5.000	7.3	8.000	9.2	0.400	2.8	1.400	4.0	2.600	5.4	5.500	7.7	8.500	9.4	0.500	2.5	1.600	4.3	3.000	5.8	6.000	8.0	9.000	9.7	0.600	2.7	1.800	4.5	3.500	6.2	6.500	8.3	9.500	10.0
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Control Points	Head (m)	Flow (l/s)	Control Points	Head (m)	Flow (l/s)
In Point (Calculated)	0.720	5.0	Kick-Flow®	0.492	4.2
Flush-Flow™	0.220	5.0	Mean Flow over Head Range	-	4.3

Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)	Depth (m)	Flow (l/s)
0.100	3.8	0.800	5.2	2.000	8.0	4.000	11.2	7.000	14.6
0.200	5.0	1.000	5.8	2.200	8.4	4.500	11.8	7.500	15.0
0.300	4.9	1.200	6.3	2.400	8.8	5.000	12.4	8.000	15.5
0.400	4.7	1.400	6.8	2.600	9.1	5.500	13.0	8.500	16.0
0.500	4.2	1.600	7.2	3.000	9.7	6.000	13.6	9.000	16.5
0.600	4.6	1.800	7.7	3.500	10.5	6.500	14.1	9.500	16.9

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Storage Structures for SOUTHERN

Infiltration Trench Manhole: 203, DS/PN: 201.001

Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	0.6
Infiltration Coefficient Side (m/hr)	0.00000	Trench Length (m)	12.7
Safety Factor	2.0	Slope (1:X)	250.0
Porosity	0.30	Cap Volume Depth (m)	0.720
Invert Level (m)	39.980	Cap Infiltration Depth (m)	0.000

Porous Car Park Manhole: 204, DS/PN: 200.002

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	29.0
Membrane Percolation (mm/hr)	1000	Length (m)	98.0
Max Percolation (l/s)	789.4	Slope (1:X)	250.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	39.410	Cap Volume Depth (m)	0.500

Cellular Storage Manhole: 210, DS/PN: 203.001

Invert Level (m)	39.115	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 ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)	Depth (m)	Area (m ²)	Inf. Area (m ²)
0.000	777.0	777.0	0.450	777.0	837.5	0.451	0.0	837.5

Infiltration Trench Manhole: 215, DS/PN: 204.001

Infiltration Coefficient Base (m/hr)	0.00000	Trench Width (m)	0.6
Infiltration Coefficient Side (m/hr)	0.00000	Trench Length (m)	13.5
Safety Factor	2.0	Slope (1:X)	250.0
Porosity	0.30	Cap Volume Depth (m)	0.570
Invert Level (m)	39.225	Cap Infiltration Depth (m)	0.000

Porous Car Park Manhole: 216, DS/PN: 204.002

Infiltration Coefficient Base (m/hr)	0.00000	Width (m)	25.0
Membrane Percolation (mm/hr)	1000	Length (m)	41.0
Max Percolation (l/s)	284.7	Slope (1:X)	250.0
Safety Factor	2.0	Depression Storage (mm)	5
Porosity	0.30	Evaporation (mm/day)	3
Invert Level (m)	39.010	Cap Volume Depth (m)	0.500

Peter Brett Associates LLP									Page 7																																																																																																																																																																																																																																																		
Caversham Bridge House Waterman Place Reading Berkshire RG1 8DN						400 Longwater Green Park																																																																																																																																																																																																																																																					
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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 Offline Controls			0		Number of Time/Area Diagrams		0																																																																																																																																																																																																																																															
Number of Online Controls			6		Number of Storage Structures			5		Number of Real Time Controls		0																																																																																																																																																																																																																																															
<u>Synthetic Rainfall Details</u>																																																																																																																																																																																																																																																											
Rainfall Model			FSR M5-60 (mm)			18.900 Cv (Summer)		0.750																																																																																																																																																																																																																																																			
Region			England and Wales			Ratio R		0.400 Cv (Winter)		0.840																																																																																																																																																																																																																																																	
Margin for Flood Risk Warning (mm)										300.0																																																																																																																																																																																																																																																	
Analysis Timestep						2.5 Second Increment (Extended)																																																																																																																																																																																																																																																					
DTS Status										OFF																																																																																																																																																																																																																																																	
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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																																																																																																																																																																																																																																																					
<table><tr><th>PN</th><th>US/MH Name</th><th>Storm</th><th>Return Period</th><th>Climate Change</th><th>First (X) Surge</th><th>First (Y) Flood</th><th>First (Z) Overflow</th><th>Overflow Act.</th><th>Water Level (m)</th><th>Surcharged Depth (m)</th><th>Flooded Volume (m³)</th></tr><tr><td>200.000</td><td>200</td><td>15 Winter</td><td>1</td><td>+0%</td><td>100/15 Summer</td><td></td><td></td><td></td><td>39.603</td><td>-0.162</td><td>0.000</td></tr><tr><td>200.001</td><td>201</td><td>240 Winter</td><td>1</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>39.572</td><td>-0.063</td><td>0.000</td></tr><tr><td>201.000</td><td>202</td><td>240 Winter</td><td>1</td><td>+0%</td><td>30/15 Summer</td><td></td><td></td><td></td><td>39.573</td><td>-0.082</td><td>0.000</td></tr><tr><td>201.001</td><td>203</td><td>240 Winter</td><td>1</td><td>+0%</td><td>30/15 Summer</td><td></td><td></td><td></td><td>39.572</td><td>-0.033</td><td>0.000</td></tr><tr><td>200.002</td><td>204</td><td>240 Winter</td><td>1</td><td>+0%</td><td>1/15 Summer</td><td></td><td></td><td></td><td>39.571</td><td>0.161</td><td>0.000</td></tr><tr><td>200.003</td><td>205</td><td>480 Winter</td><td>1</td><td>+0%</td><td></td><td></td><td></td><td></td><td>39.228</td><td>-0.567</td><td>0.000</td></tr><tr><td>202.000</td><td>206</td><td>15 Winter</td><td>1</td><td>+0%</td><td></td><td></td><td></td><td></td><td>39.412</td><td>-0.948</td><td>0.000</td></tr><tr><td>202.001</td><td>207</td><td>15 Winter</td><td>1</td><td>+0%</td><td>30/15 Winter</td><td></td><td></td><td></td><td>39.285</td><td>-0.115</td><td>0.000</td></tr><tr><td>200.004</td><td>208</td><td>480 Winter</td><td>1</td><td>+0%</td><td></td><td></td><td></td><td></td><td>39.228</td><td>-0.557</td><td>0.000</td></tr><tr><td>203.000</td><td>209</td><td>960 Winter</td><td>1</td><td>+0%</td><td>30/960 Winter</td><td></td><td></td><td></td><td>39.232</td><td>-0.133</td><td>0.000</td></tr><tr><td>203.001</td><td>210</td><td>960 Winter</td><td>1</td><td>+0%</td><td>30/360 Winter</td><td></td><td></td><td></td><td>39.232</td><td>-0.108</td><td>0.000</td></tr><tr><td>200.005</td><td>211</td><td>480 Winter</td><td>1</td><td>+0%</td><td></td><td></td><td></td><td></td><td>39.228</td><td>-0.512</td><td>0.000</td></tr><tr><td>200.006</td><td>212</td><td>480 Winter</td><td>1</td><td>+0%</td><td>1/15 Summer</td><td></td><td></td><td></td><td>39.227</td><td>0.087</td><td>0.000</td></tr><tr><td>200.007</td><td>213</td><td>240 Winter</td><td>1</td><td>+0%</td><td></td><td></td><td></td><td></td><td>39.066</td><td>-0.509</td><td>0.000</td></tr><tr><td>204.000</td><td>214</td><td>15 Winter</td><td>1</td><td>+0%</td><td>100/15 Summer</td><td></td><td></td><td></td><td>39.149</td><td>-0.130</td><td>0.000</td></tr><tr><td>204.001</td><td>215</td><td>120 Winter</td><td>1</td><td>+0%</td><td>30/15 Summer</td><td></td><td></td><td></td><td>39.121</td><td>-0.104</td><td>0.000</td></tr><tr><td>204.002</td><td>216</td><td>120 Winter</td><td>1</td><td>+0%</td><td>1/15 Summer</td><td></td><td></td><td></td><td>39.118</td><td>0.108</td><td>0.000</td></tr><tr><td>200.008</td><td>217</td><td>240 Winter</td><td>1</td><td>+0%</td><td></td><td></td><td></td><td></td><td>39.064</td><td>-0.351</td><td>0.000</td></tr><tr><td>200.009</td><td>218</td><td>240 Winter</td><td>1</td><td>+0%</td><td>1/15 Summer</td><td></td><td></td><td></td><td>39.107</td><td>0.202</td><td>0.000</td></tr></table>												PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)	200.000	200	15 Winter	1	+0%	100/15 Summer				39.603	-0.162	0.000	200.001	201	240 Winter	1	+0%	30/15 Winter				39.572	-0.063	0.000	201.000	202	240 Winter	1	+0%	30/15 Summer				39.573	-0.082	0.000	201.001	203	240 Winter	1	+0%	30/15 Summer				39.572	-0.033	0.000	200.002	204	240 Winter	1	+0%	1/15 Summer				39.571	0.161	0.000	200.003	205	480 Winter	1	+0%					39.228	-0.567	0.000	202.000	206	15 Winter	1	+0%					39.412	-0.948	0.000	202.001	207	15 Winter	1	+0%	30/15 Winter				39.285	-0.115	0.000	200.004	208	480 Winter	1	+0%					39.228	-0.557	0.000	203.000	209	960 Winter	1	+0%	30/960 Winter				39.232	-0.133	0.000	203.001	210	960 Winter	1	+0%	30/360 Winter				39.232	-0.108	0.000	200.005	211	480 Winter	1	+0%					39.228	-0.512	0.000	200.006	212	480 Winter	1	+0%	1/15 Summer				39.227	0.087	0.000	200.007	213	240 Winter	1	+0%					39.066	-0.509	0.000	204.000	214	15 Winter	1	+0%	100/15 Summer				39.149	-0.130	0.000	204.001	215	120 Winter	1	+0%	30/15 Summer				39.121	-0.104	0.000	204.002	216	120 Winter	1	+0%	1/15 Summer				39.118	0.108	0.000	200.008	217	240 Winter	1	+0%					39.064	-0.351	0.000	200.009	218	240 Winter	1	+0%	1/15 Summer				39.107	0.202	0.000
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)	Surcharged Depth (m)	Flooded Volume (m³)																																																																																																																																																																																																																																																
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200.002	204	240 Winter	1	+0%	1/15 Summer				39.571	0.161	0.000																																																																																																																																																																																																																																																
200.003	205	480 Winter	1	+0%					39.228	-0.567	0.000																																																																																																																																																																																																																																																
202.000	206	15 Winter	1	+0%					39.412	-0.948	0.000																																																																																																																																																																																																																																																
202.001	207	15 Winter	1	+0%	30/15 Winter				39.285	-0.115	0.000																																																																																																																																																																																																																																																
200.004	208	480 Winter	1	+0%					39.228	-0.557	0.000																																																																																																																																																																																																																																																
203.000	209	960 Winter	1	+0%	30/960 Winter				39.232	-0.133	0.000																																																																																																																																																																																																																																																
203.001	210	960 Winter	1	+0%	30/360 Winter				39.232	-0.108	0.000																																																																																																																																																																																																																																																
200.005	211	480 Winter	1	+0%					39.228	-0.512	0.000																																																																																																																																																																																																																																																
200.006	212	480 Winter	1	+0%	1/15 Summer				39.227	0.087	0.000																																																																																																																																																																																																																																																
200.007	213	240 Winter	1	+0%					39.066	-0.509	0.000																																																																																																																																																																																																																																																
204.000	214	15 Winter	1	+0%	100/15 Summer				39.149	-0.130	0.000																																																																																																																																																																																																																																																
204.001	215	120 Winter	1	+0%	30/15 Summer				39.121	-0.104	0.000																																																																																																																																																																																																																																																
204.002	216	120 Winter	1	+0%	1/15 Summer				39.118	0.108	0.000																																																																																																																																																																																																																																																
200.008	217	240 Winter	1	+0%					39.064	-0.351	0.000																																																																																																																																																																																																																																																
200.009	218	240 Winter	1	+0%	1/15 Summer				39.107	0.202	0.000																																																																																																																																																																																																																																																
<table><tr><th rowspan="2">PN</th><th colspan="2">US/MH</th><th rowspan="2">Flow / Cap.</th><th rowspan="2">Overflow (l/s)</th><th colspan="2">Pipe Flow (l/s)</th><th rowspan="2">Status</th><th rowspan="2">Level Exceeded</th></tr><tr><th>Name</th><th></th><th></th><th></th></tr><tr><td>200.000</td><td>200</td><td></td><td>0.17</td><td></td><td>5.2</td><td></td><td>OK</td><td></td></tr><tr><td>200.001</td><td>201</td><td></td><td>0.05</td><td></td><td>1.6</td><td></td><td>OK</td><td></td></tr><tr><td>201.000</td><td>202</td><td></td><td>0.07</td><td></td><td>1.9</td><td></td><td>OK</td><td></td></tr><tr><td>201.001</td><td>203</td><td></td><td>0.05</td><td></td><td>1.7</td><td></td><td>OK</td><td></td></tr><tr><td>200.002</td><td>204</td><td></td><td>0.12</td><td></td><td>3.4</td><td>SURCHARGED</td><td></td><td></td></tr><tr><td>200.003</td><td>205</td><td></td><td>0.00</td><td></td><td>3.4</td><td></td><td>OK</td><td></td></tr><tr><td>202.000</td><td>206</td><td></td><td>0.00</td><td></td><td>4.8</td><td></td><td>OK</td><td></td></tr><tr><td>202.001</td><td>207</td><td></td><td>0.12</td><td></td><td>4.3</td><td>OK*</td><td></td><td></td></tr><tr><td>200.004</td><td>208</td><td></td><td>0.00</td><td></td><td>4.0</td><td></td><td>OK</td><td></td></tr><tr><td>203.000</td><td>209</td><td></td><td>0.00</td><td></td><td>0.0</td><td></td><td>OK</td><td></td></tr><tr><td>203.001</td><td>210</td><td></td><td>0.11</td><td></td><td>3.2</td><td></td><td>OK</td><td></td></tr><tr><td>200.005</td><td>211</td><td></td><td>0.00</td><td></td><td>4.5</td><td></td><td>OK</td><td></td></tr><tr><td>200.006</td><td>212</td><td></td><td>0.13</td><td></td><td>3.7</td><td>SURCHARGED</td><td></td><td></td></tr><tr><td>200.007</td><td>213</td><td></td><td>0.00</td><td></td><td>4.0</td><td></td><td>OK</td><td></td></tr><tr><td>204.000</td><td>214</td><td></td><td>0.37</td><td></td><td>10.5</td><td></td><td>OK</td><td></td></tr></table>												PN	US/MH		Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)		Status	Level Exceeded	Name				200.000	200		0.17		5.2		OK		200.001	201		0.05		1.6		OK		201.000	202		0.07		1.9		OK		201.001	203		0.05		1.7		OK		200.002	204		0.12		3.4	SURCHARGED			200.003	205		0.00		3.4		OK		202.000	206		0.00		4.8		OK		202.001	207		0.12		4.3	OK*			200.004	208		0.00		4.0		OK		203.000	209		0.00		0.0		OK		203.001	210		0.11		3.2		OK		200.005	211		0.00		4.5		OK		200.006	212		0.13		3.7	SURCHARGED			200.007	213		0.00		4.0		OK		204.000	214		0.37		10.5		OK																																																																																													
PN	US/MH		Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)		Status	Level Exceeded																																																																																																																																																																																																																																																			
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200.000	200		0.17		5.2		OK																																																																																																																																																																																																																																																				
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200.002	204		0.12		3.4	SURCHARGED																																																																																																																																																																																																																																																					
200.003	205		0.00		3.4		OK																																																																																																																																																																																																																																																				
202.000	206		0.00		4.8		OK																																																																																																																																																																																																																																																				
202.001	207		0.12		4.3	OK*																																																																																																																																																																																																																																																					
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Peter Brett Associates LLP		Page 8
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Waterman Place	Green Park	
Reading Berkshire RG1 8DN		
Date 01.04.2016	Designed by CMB	
File 27159_2007 - SW NETWORK_REV1.mdx	Checked by	
Micro Drainage	Network 2015.1	

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

PN	US/MH Name	Flow / Cap.	Overflow (l/s)	Pipe	Status	Level
				Flow (l/s)		Exceeded
204.001	215	0.10		3.0	OK	
204.002	216	0.10		3.0	SURCHARGED	
200.008	217	0.01		15.4	OK	
200.009	218	0.14		5.0	FLOOD RISK	

400 Longwater
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Simulation Criteria

Number of Input Hydrographs	0	Number of Offline Controls	0	Number of Time/Area Diagrams	0
Number of Online Controls	6	Number of Storage Structures	5	Number of Real Time Controls	0

Synthetic Rainfall Details

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

									Water	Surcharged	Flooded
	US/MH		Return	Climate	First (X)	First (Y)	First (Z)	Overflow	Level	Depth	Volume
PN	Name	Storm	Period	Change	Surcharge	Flood	Overflow	Act.	(m)	(m)	(m³)
200.000	200	240	Winter	30	+0%	100/15	Summer		39.746	-0.019	0.000
200.001	201	240	Winter	30	+0%	30/15	Winter		39.745	0.110	0.000
201.000	202	240	Winter	30	+0%	30/15	Summer		39.747	0.092	0.000
201.001	203	240	Winter	30	+0%	30/15	Summer		39.745	0.140	0.000
200.002	204	240	Winter	30	+0%	1/15	Summer		39.744	0.334	0.000
200.003	205	1440	Winter	30	+0%				39.403	-0.392	0.000
202.000	206	15	Winter	30	+0%				39.466	-0.894	0.000
202.001	207	1440	Winter	30	+0%	30/15	Winter		39.404	0.004	0.000
200.004	208	1440	Winter	30	+0%				39.403	-0.382	0.000
203.000	209	1440	Winter	30	+0%	30/960	Winter		39.410	0.045	0.000
203.001	210	1440	Winter	30	+0%	30/360	Winter		39.410	0.070	0.000
200.005	211	1440	Winter	30	+0%				39.403	-0.337	0.000
200.006	212	1440	Winter	30	+0%	1/15	Summer		39.403	0.263	0.000
200.007	213	960	Winter	30	+0%				39.227	-0.348	0.000
204.000	214	15	Winter	30	+0%	100/15	Summer		39.277	-0.002	0.000
204.001	215	360	Winter	30	+0%	30/15	Summer		39.270	0.045	0.000
204.002	216	360	Winter	30	+0%	1/15	Summer		39.269	0.259	0.000
200.008	217	960	Winter	30	+0%				39.227	-0.188	0.000
200.009	218	360	Winter	30	+0%	1/15	Summer		39.250	0.345	0.000

PN	US/MH Name	Flow / Cap.	Overflow (l/s)	Pipe	Status	Level
				Flow (l/s)		Exceeded
200.000	200	0.07		2.3		OK
200.001	201	0.12		3.6	SURCHARGED	
201.000	202	0.16		4.4	SURCHARGED	
201.001	203	0.14		4.3	SURCHARGED	
200.002	204	0.12		3.4	SURCHARGED	
200.003	205	0.00		3.4		OK
202.000	206	0.00		11.7		OK
202.001	207	0.06		2.2	SURCHARGED*	
200.004	208	0.00		5.4		OK
203.000	209	0.00		0.0	SURCHARGED	
203.001	210	0.12		3.5	SURCHARGED	
200.005	211	0.00		4.6		OK
200.006	212	0.13		3.8	SURCHARGED	
200.007	213	0.00		3.9		OK
204.000	214	0.82		23.3		OK

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

PN	US/MH Name	Flow / Cap.	Overflow (l/s)	Pipe	Status	Level Exceeded
				Flow (l/s)		
204.001	215	0.10		3.1	SURCHARGED	
204.002	216	0.09		2.6	SURCHARGED	
200.008	217	0.01		20.9	FLOOD RISK*	
200.009	218	0.14		5.0	FLOOD RISK	

400 Longwater
Green Park



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Simulation Criteria

Number of Input Hydrographs	0	Number of Offline Controls	0	Number of Time/Area Diagrams	0
Number of Online Controls	6	Number of Storage Structures	5	Number of Real Time Controls	0

Synthetic Rainfall Details

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

									Water	Surcharged	Flooded
	US/MH		Return	Climate	First (X)	First (Y)	First (Z)	Overflow	Level	Depth	Volume
PN	Name	Storm	Period	Change	Surcharge	Flood	Overflow	Act.	(m)	(m)	(m³)
200.000	200	15 Winter	100	+30%	100/15 Summer				39.940	0.175	0.000
200.001	201	480 Winter	100	+30%	30/15 Winter				39.907	0.272	0.000
201.000	202	15 Winter	100	+30%	30/15 Summer				40.016	0.361	0.000
201.001	203	15 Winter	100	+30%	30/15 Summer				39.927	0.322	0.000
200.002	204	480 Winter	100	+30%	1/15 Summer				39.905	0.495	0.000
200.003	205	1440 Winter	100	+30%					39.711	-0.084	0.000
202.000	206	1440 Winter	100	+30%					39.711	-0.649	0.000
202.001	207	1440 Winter	100	+30%	30/15 Winter				39.711	0.311	0.000
200.004	208	1440 Winter	100	+30%					39.711	-0.074	0.000
203.000	209	1440 Winter	100	+30%	30/960 Winter				39.753	0.388	0.000
203.001	210	1440 Winter	100	+30%	30/360 Winter				39.753	0.413	0.000
200.005	211	1440 Winter	100	+30%					39.711	-0.029	0.000
200.006	212	1440 Winter	100	+30%	1/15 Summer				39.710	0.570	0.000
200.007	213	960 Winter	100	+30%					39.390	-0.185	0.000
204.000	214	15 Winter	100	+30%	100/15 Summer				39.551	0.272	0.000
204.001	215	15 Winter	100	+30%	30/15 Summer				39.464	0.239	0.000
204.002	216	480 Winter	100	+30%	1/15 Summer				39.453	0.443	0.000
200.008	217	960 Winter	100	+30%					39.390	-0.025	0.000
200.009	218	960 Winter	100	+30%	1/15 Summer				39.394	0.489	0.000

PN	US/MH Name	Flow / Cap.	Overflow (l/s)	Pipe	Status	Level Exceeded
				Flow (l/s)		
200.000	200	0.62		19.1	SURCHARGED	
200.001	201	0.12		3.9	SURCHARGED	
201.000	202	1.37		38.3	SURCHARGED	
201.001	203	1.15		36.0	SURCHARGED	
200.002	204	0.12		3.4	SURCHARGED	
200.003	205	0.00		3.4	OK	
202.000	206	0.00		1.0	OK	
202.001	207	0.09		3.2	SURCHARGED*	
200.004	208	0.00		6.4	OK	
203.000	209	0.00		0.0	SURCHARGED	
203.001	210	0.10		2.9	SURCHARGED	
200.005	211	0.00		5.7	OK	
200.006	212	0.13		3.9	SURCHARGED	
200.007	213	0.00		3.9	OK	
204.000	214	1.32		37.5	FLOOD RISK	

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

PN	US/MH Name	Flow / Cap.	Overflow (l/s)	Pipe	Status	Level Exceeded
				Flow (l/s)		
204.001	215	1.07		33.7	FLOOD RISK	
204.002	216	0.08		2.5	FLOOD RISK	
200.008	217	0.01		20.6	FLOOD RISK*	
200.009	218	0.14		5.0	FLOOD RISK	