

CROSS STREET, WOSBOROUGH

INFILTRATION TEST CARRIED OUT BY

SPANDRELL HOMES



Richard Bland

From: Richard Ryde <richard@spandrelhomes.co.uk>
Sent: 04 August 2026 14:03
To: Richard Bland
Subject: soakaway test

Hi Richard

Please find below results from the soakaway test carried out at Cross Street

Water filled to a depth of 690mm

Time	Mins	depth	total depth
10:10	0	660	0
10:30	20	690	30
10:50	40	710	50
11:10	60	720	60
11:30	80	730	70
11:50	100	740	80
12:10	120	750	90
12:30	140	760	100
12:50	160	770	110
13:10	180	780	120
13:30	200	790	130
13:50	220	795	135
14:10	240	800	140
14:30	260	805	145
14:50	280	810	150
15:10	300	815	155
15:30	320	815	155
15:50	340	820	160
16:10	360	820	160

After 6hours the water had dropped only 160mm, the hole was backfilled for safety reasons.

Regards

Richard Ryde
Director

Natali Developments Ltd
Spandrel Homes Ltd

07446 100 154

richard.natali@btconnect.com
richard@spandrelhomes.co.uk



Proud To Be In Partnership with:







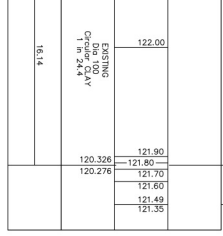
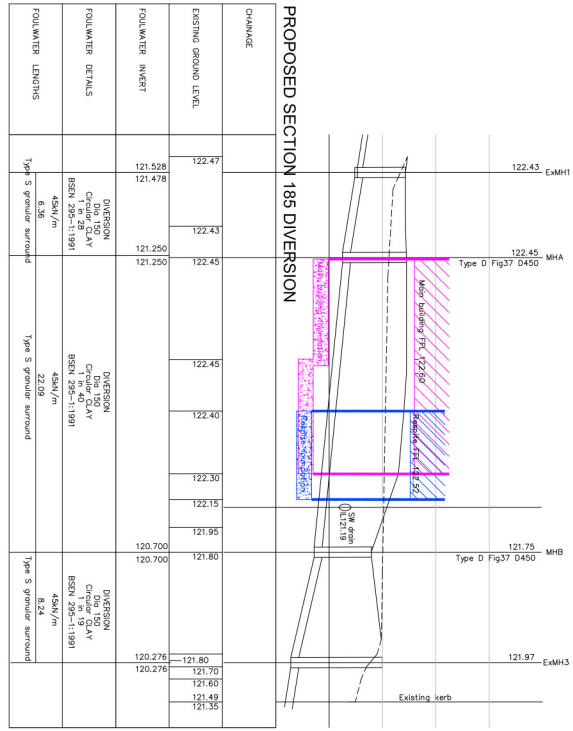
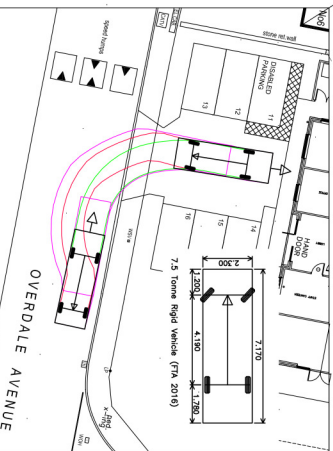




CROSS STREET, WOSBOROUGH

HYDRAULIC ANALYSIS MAXIMUM

DISCHARGE 3 L/S



Technical Specification

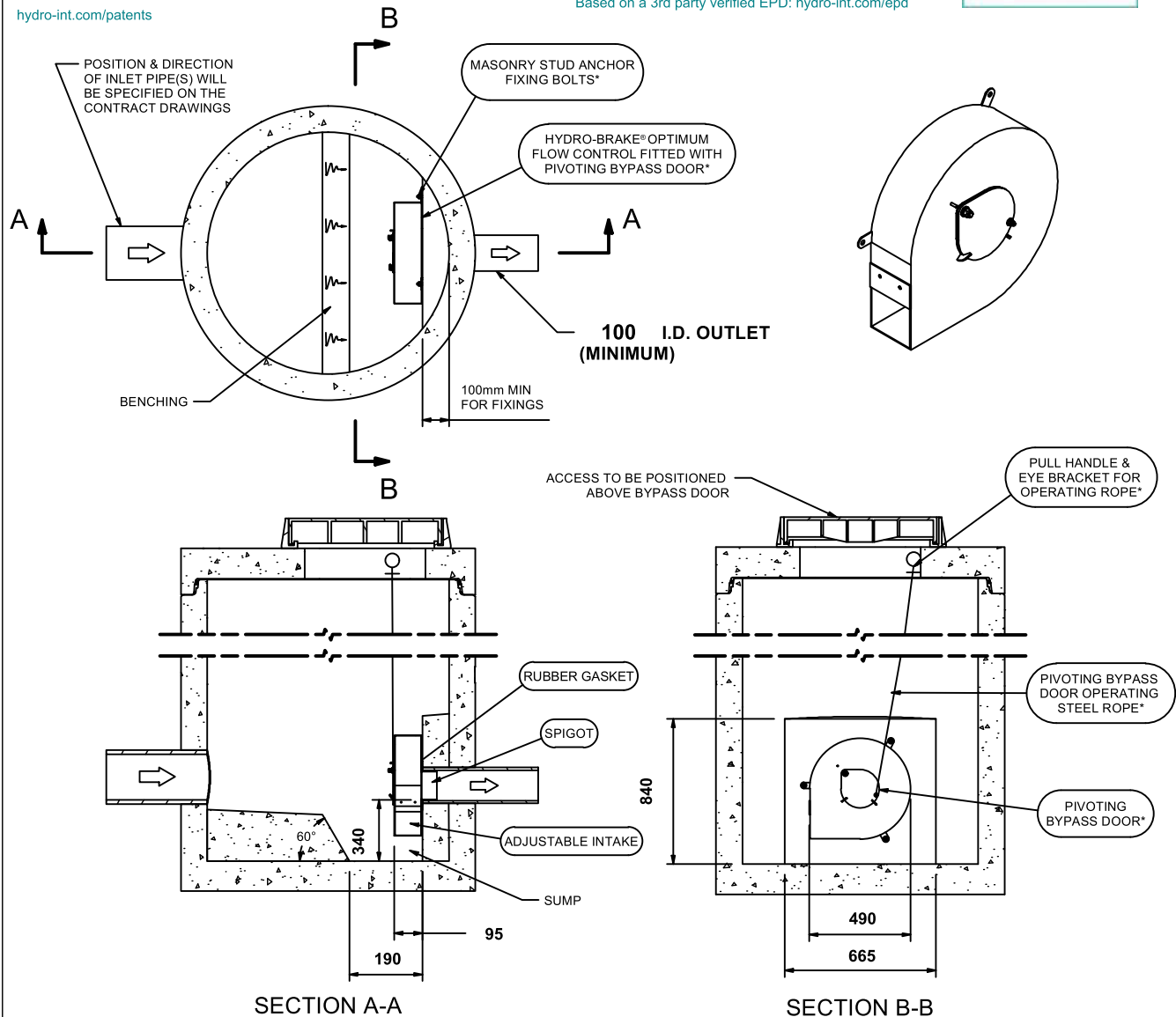
Control Point	Head (m)	Flow (l/s)
Primary Design	1.100	3.500
Flush-Flo™	0.329	3.498
Kick-Flo®	0.684	2.814
Mean Flow		3.065

hydro-int.com/patents

This Hydro-Brake® Optimum includes:

- All in 3 mm Grade 304L stainless steel
- Integral pivoting by-pass door allowing clear line of sight through to outlet, c/w operating rope
- Media blasted for corrosion resistance
- Variable flow rate post installation via adjustable inlet (if necessary)
- Indicative Weight: 15 kg
- Product Carbon Footprint: 56.03 kgCO₂e

Based on a 3rd party verified EPD: hydro-int.com/epd



IMPORTANT: ○ LIMIT OF HYDRO INTERNATIONAL SUPPLY
 THE DEVICE WILL BE HANDED TO SUIT SITE CONDITIONS
 FOR SITE SPECIFIC DETAILS AND MINIMUM CHAMBER SIZE REFER TO HYDRO INTERNATIONAL
 ALL CIVIL AND INSTALLATION WORK BY OTHERS
 * WHERE SUPPLIED
 HYDRO-BRAKE® IS A REGISTERED TRADEMARK FOR FLOW CONTROLS DESIGNED AND MANUFACTURED EXCLUSIVELY BY
 HYDRO INTERNATIONAL

THIS DESIGN LAYOUT IS FOR ILLUSTRATIVE PURPOSES ONLY. NOT TO SCALE.

DESIGN ADVICE



The head/flow characteristics of this SHE-0087-3500-1100-3500 Hydro-Brake® Optimum Flow Control are unique. Dynamic hydraulic modelling evaluates the full head/flow characteristic curve.
The use of any other flow control will invalidate any design based on this data and could constitute a flood risk.

Hydro International
 A CRH COMPANY

DATE	06/08/2026 08:57
SITE	wosborough
DESIGNER	richard bland
REF	cross street

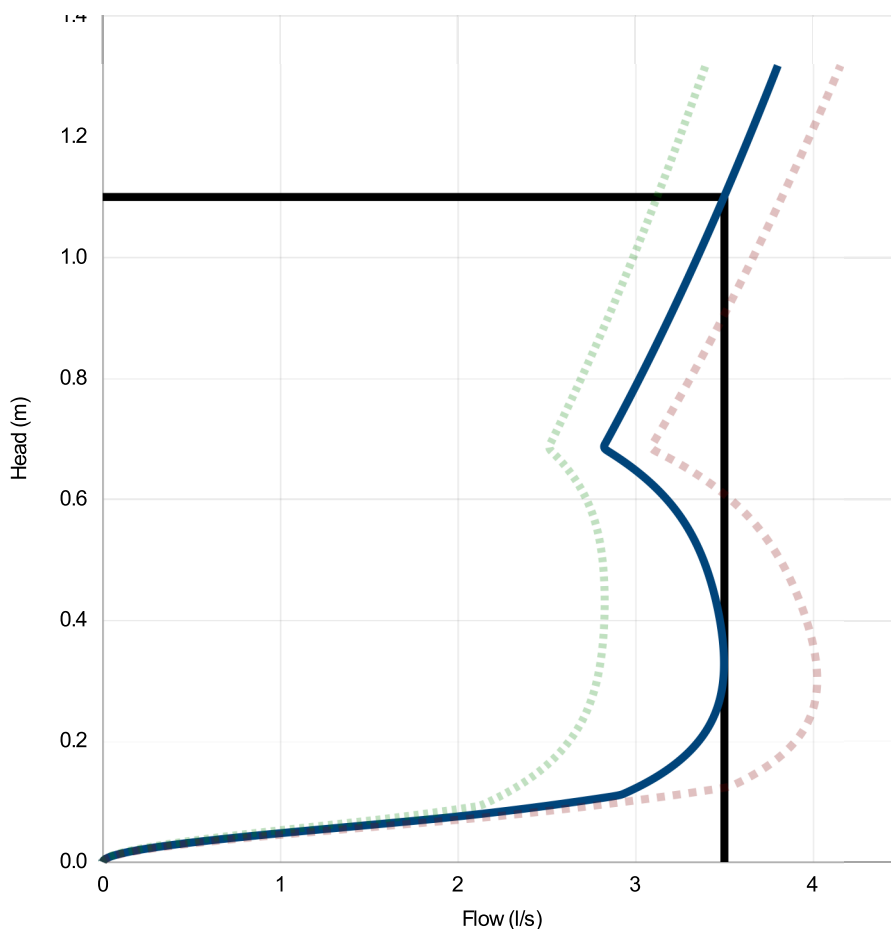
SHE-0087-3500-1100-3500
 Hydro-Brake® Optimum

Technical Specification

	Original Setting		Minimum Setting		Maximum Setting	
Control Point	Head (m)	Flow (l/s)	Head (m)	Flow (l/s)	Head (m)	Flow (l/s)
Primary Design	1.100	3.500	1.100	3.121	1.100	3.824
Flush-Flo™	0.329	3.498	0.429	2.826	0.302	4.023
Kick-Flo®	0.684	2.814	0.684	2.506	0.683	3.080
Mean Flow		3.065		2.596		3.431



hydro-int.com/patents



Head (m)	Flow (l/s)
0.000	0.000
0.038	0.668
0.076	2.012
0.114	2.939
0.152	3.174
0.190	3.325
0.228	3.418
0.266	3.471
0.303	3.494
0.341	3.497
0.379	3.486
0.417	3.464
0.455	3.432
0.493	3.390
0.531	3.334
0.569	3.258
0.607	3.154
0.645	3.014
0.683	2.827
0.721	2.882
0.759	2.950
0.797	3.016
0.834	3.081
0.872	3.145
0.910	3.207
0.948	3.267
0.986	3.326
1.024	3.385
1.062	3.442
1.100	3.498

DESIGN ADVICE



The head/flow characteristics of this SHE-0087-3500-1100-3500 Hydro-Brake® Optimum Flow Control are unique. Dynamic hydraulic modelling evaluates the full head/flow characteristic curve.

The use of any other flow control will invalidate any design based on this data and could constitute a flood risk.

Hydro
International

A CRH COMPANY

DATE 06/08/2026 08:57

Site wosborough

DESIGNER richard bland

Ref cross street

SHE-0087-3500-1100-3500

Hydro-Brake® Optimum

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File SW 26-6-26.MDX	Checked by	
XP Solutions		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)	19.000	Add Flow / Climate Change (%)	40
Ratio R	0.355	Minimum Backdrop Height (m)	0.200
Maximum Rainfall (mm/hr)	50	Maximum Backdrop Height (m)	1.500
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.	1.000	Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Network Design Table for Storm

« - Indicates pipe capacity < flow

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	10.800	0.180	60.0	0.011	4.00	0.0	0.600	o	100	Pipe/Conduit	
1.001	23.600	0.320	73.8	0.020	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.002	10.600	0.100	106.0	0.006	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.003	1.800	0.020	90.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
1.004	13.000	0.100	130.0	0.000	0.00	0.0	0.600	[]	-17	Pipe/Conduit	
1.005	1.800	0.020	90.0	0.000	0.00	0.0	0.600	o	300	Pipe/Conduit	
2.000	6.200	0.090	68.9	0.005	4.00	0.0	0.600	o	100	Pipe/Conduit	
2.001	10.800	0.110	98.2	0.043	0.00	0.0	0.600	o	150	Pipe/Conduit	
2.002	8.700	0.090	96.7	0.014	0.00	0.0	0.600	o	150	Pipe/Conduit	
2.003	21.900	0.220	99.5	0.005	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)
1.000	50.00	4.18	121.900	0.011	0.0	0.0	0.8	1.00	7.8	2.8
1.001	50.00	4.52	121.670	0.031	0.0	0.0	2.2	1.17	20.7	7.8
1.002	50.00	4.70	121.350	0.037	0.0	0.0	2.7	0.98	17.2	9.4
1.003	50.00	4.73	121.250	0.037	0.0	0.0	2.7	1.06	18.7	9.4
1.004	50.00	4.78	120.500	0.037	0.0	0.0	2.7	3.76	11282.8	9.4
1.005	50.00	4.80	120.400	0.037	0.0	0.0	2.7	1.66	117.2	9.4
2.000	50.00	4.11	121.720	0.005	0.0	0.0	0.4	0.93	7.3	1.3
2.001	50.00	4.29	121.580	0.048	0.0	0.0	3.5	1.01	17.9	12.1
2.002	50.00	4.43	121.470	0.062	0.0	0.0	4.5	1.02	18.1	15.7
2.003	50.00	4.71	121.305	0.067	0.0	0.0	4.8	1.31	52.1	16.9

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Online Controls for Storm

Hydro-Brake® Optimum Manhole: 12, DS/PN: 1.006, Volume (m³): 3.3

Unit Reference	MD-SHE-0087-3500-1100-3500
Design Head (m)	1.100
Design Flow (l/s)	3.5
Flush-Flo™	Calculated
Objective	Minimise upstream storage
Application	Surface
Sump Available	Yes
Diameter (mm)	87
Invert Level (m)	120.380
Minimum Outlet Pipe Diameter (mm)	100
Suggested Manhole Diameter (mm)	1200

Control Points	Head (m)	Flow (l/s)
Design Point (Calculated)	1.100	3.5
Flush-Flo™	0.329	3.5
Kick-Flo®	0.684	2.8
Mean Flow over Head Range	-	3.1

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	2.7	1.200	3.6	3.000	5.6	7.000	8.3
0.200	3.4	1.400	3.9	3.500	6.0	7.500	8.6
0.300	3.5	1.600	4.2	4.000	6.4	8.000	8.9
0.400	3.5	1.800	4.4	4.500	6.7	8.500	9.1
0.500	3.4	2.000	4.6	5.000	7.1	9.000	9.4
0.600	3.2	2.200	4.8	5.500	7.4	9.500	9.6
0.800	3.0	2.400	5.0	6.000	7.7		
1.000	3.3	2.600	5.2	6.500	8.0		

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Summary of Results for 15 minute 1 year Winter (Storm)

Margin for Flood Risk Warning (mm) 100.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status OFF
 DVD Status ON
 Inertia Status ON

		Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (1/s)	Flow (1/s)	Status
1.000	1	121.936	-0.064	0.000	0.29	2.1	OK
1.001	2	121.722	-0.098	0.000	0.26	5.1	OK
1.002	3	121.415	-0.085	0.000	0.38	5.9	OK
1.003	4	121.330	-0.070	0.000	0.55	6.0	OK
1.004	5	120.641	-0.859	0.000	0.00	5.9	OK
1.005	6	120.641	-0.059	0.000	0.06	3.2	OK
2.000	7	121.745	-0.075	0.000	0.15	1.0	OK
2.001	8	121.652	-0.078	0.000	0.46	7.4	OK
2.002	9	121.555	-0.065	0.000	0.60	9.5	OK
2.003	10	121.376	-0.154	0.000	0.22	10.3	OK
2.004	11	121.176	-0.134	0.000	0.35	10.3	OK
1.006	12	120.641	0.111	0.000	0.20	3.5	SURCHARGED

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Summary of Results for 30 minute 1 year Winter (Storm)

Margin for Flood Risk Warning (mm) 100.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status OFF
 DVD Status ON
 Inertia Status ON

		Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (1/s)	Flow (1/s)	Status
1.000	1	121.932	-0.068	0.000	0.22	1.6	OK
1.001	2	121.717	-0.103	0.000	0.21	4.2	OK
1.002	3	121.408	-0.092	0.000	0.32	4.9	OK
1.003	4	121.321	-0.079	0.000	0.45	4.9	OK
1.004	5	120.664	-0.836	0.000	0.00	4.9	OK
1.005	6	120.664	-0.036	0.000	0.06	3.3	OK
2.000	7	121.742	-0.078	0.000	0.11	0.7	OK
2.001	8	121.645	-0.085	0.000	0.39	6.3	OK
2.002	9	121.546	-0.074	0.000	0.51	8.1	OK
2.003	10	121.370	-0.160	0.000	0.18	8.7	OK
2.004	11	121.168	-0.142	0.000	0.29	8.8	OK
1.006	12	120.663	0.133	0.000	0.20	3.5	SURCHARGED

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Summary of Results for 120 minute 1 year Winter (Storm)

Margin for Flood Risk Warning (mm) 100.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status OFF
 DVD Status ON
 Inertia Status ON

		Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	Status
1.000	1	121.920	-0.080	0.000	0.09	0.7	OK
1.001	2	121.701	-0.119	0.000	0.10	1.9	OK
1.002	3	121.388	-0.112	0.000	0.15	2.3	OK
1.003	4	121.297	-0.103	0.000	0.21	2.3	OK
1.004	5	120.628	-0.872	0.000	0.00	2.3	OK
1.005	6	120.628	-0.072	0.000	0.05	2.5	OK
2.000	7	121.734	-0.086	0.000	0.05	0.3	OK
2.001	8	121.623	-0.107	0.000	0.19	3.0	OK
2.002	9	121.520	-0.100	0.000	0.24	3.8	OK
2.003	10	121.350	-0.180	0.000	0.09	4.1	OK
2.004	11	121.141	-0.169	0.000	0.14	4.1	OK
1.006	12	120.626	0.096	0.000	0.19	3.4	SURCHARGED

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Summary of Results for 15 minute 30 year Winter (Storm)

Margin for Flood Risk Warning (mm) 100.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status OFF
 DVD Status ON
 Inertia Status ON

		Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (1/s)	Flow (1/s)	Status
1.000	1	121.962	-0.038	0.000	0.70	5.1	OK
1.001	2	121.766	-0.054	0.000	0.73	14.4	OK
1.002	3	121.571	0.071	0.000	1.08	16.7	SURCHARGED
1.003	4	121.447	0.047	0.000	1.57	17.0	SURCHARGED
1.004	5	120.950	-0.550	0.000	0.00	16.8	OK
1.005	6	120.950	0.250	0.000	0.06	3.4	SURCHARGED
2.000	7	122.051	0.231	0.000	0.38	2.5	SURCHARGED
2.001	8	122.036	0.306	0.000	1.38	22.2	SURCHARGED
2.002	9	121.823	0.203	0.000	1.81	28.6	SURCHARGED
2.003	10	121.438	-0.092	0.000	0.64	30.4	OK
2.004	11	121.290	-0.020	0.000	1.00	29.8	OK
1.006	12	120.949	0.419	0.000	0.20	3.5	SURCHARGED

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Summary of Results for 30 minute 30 year Winter (Storm)

Margin for Flood Risk Warning (mm) 100.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status OFF
 DVD Status ON
 Inertia Status ON

		Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	Status
1.000	1	121.952	-0.048	0.000	0.53	3.9	OK
1.001	2	121.751	-0.069	0.000	0.56	10.9	OK
1.002	3	121.489	-0.011	0.000	0.84	13.0	OK
1.003	4	121.416	0.016	0.000	1.20	13.0	SURCHARGED
1.004	5	121.066	-0.434	0.000	0.00	12.8	OK
1.005	6	121.066	0.366	0.000	0.06	3.1	SURCHARGED
2.000	7	121.836	0.016	0.000	0.28	1.8	SURCHARGED
2.001	8	121.824	0.094	0.000	1.05	16.9	SURCHARGED
2.002	9	121.699	0.079	0.000	1.38	21.9	SURCHARGED
2.003	10	121.418	-0.112	0.000	0.50	23.7	OK
2.004	11	121.236	-0.074	0.000	0.79	23.5	OK
1.006	12	121.065	0.535	0.000	0.20	3.5	SURCHARGED

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Summary of Results for 60 minute 30 year Winter (Storm)

Margin for Flood Risk Warning (mm) 100.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status OFF
 DVD Status ON
 Inertia Status ON

		Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (1/s)	Flow (1/s)	Status
1.000	1	121.941	-0.059	0.000	0.35	2.6	OK
1.001	2	121.733	-0.087	0.000	0.37	7.3	OK
1.002	3	121.431	-0.069	0.000	0.56	8.7	OK
1.003	4	121.353	-0.047	0.000	0.79	8.6	OK
1.004	5	121.137	-0.363	0.000	0.00	8.5	OK
1.005	6	121.137	0.437	0.000	0.06	3.3	SURCHARGED
2.000	7	121.749	-0.071	0.000	0.18	1.2	OK
2.001	8	121.673	-0.057	0.000	0.70	11.3	OK
2.002	9	121.583	-0.037	0.000	0.92	14.6	OK
2.003	10	121.394	-0.136	0.000	0.33	15.6	OK
2.004	11	121.202	-0.108	0.000	0.52	15.6	OK
1.006	12	121.137	0.607	0.000	0.20	3.5	SURCHARGED

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Summary of Results for 120 minute 30 year Winter (Storm)

Margin for Flood Risk Warning (mm) 100.0

Analysis Timestep 2.5 Second Increment (Extended)

DTS Status OFF

DVD Status ON

Inertia Status ON

PN	US/MH Name	Water	Surcharged	Flooded	Pipe		Status
		Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	
1.000	1	121.932	-0.068	0.000	0.22	1.6	OK
1.001	2	121.719	-0.101	0.000	0.23	4.5	OK
1.002	3	121.411	-0.089	0.000	0.35	5.4	OK
1.003	4	121.325	-0.075	0.000	0.50	5.4	OK
1.004	5	121.125	-0.375	0.000	0.00	5.4	OK
1.005	6	121.125	0.425	0.000	0.06	3.3	SURCHARGED
2.000	7	121.742	-0.078	0.000	0.11	0.7	OK
2.001	8	121.649	-0.081	0.000	0.44	7.0	OK
2.002	9	121.551	-0.069	0.000	0.57	9.1	OK
2.003	10	121.374	-0.156	0.000	0.21	9.8	OK
2.004	11	121.173	-0.137	0.000	0.33	9.8	OK
1.006	12	121.125	0.595	0.000	0.20	3.5	SURCHARGED

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Summary of Results for 180 minute 30 year Winter (Storm)

Margin for Flood Risk Warning (mm) 100.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status OFF
 DVD Status ON
 Inertia Status ON

		Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (1/s)	Flow (1/s)	Status
1.000	1	121.927	-0.073	0.000	0.17	1.2	OK
1.001	2	121.712	-0.108	0.000	0.17	3.4	OK
1.002	3	121.402	-0.098	0.000	0.27	4.1	OK
1.003	4	121.314	-0.086	0.000	0.38	4.1	OK
1.004	5	121.081	-0.419	0.000	0.00	4.1	OK
1.005	6	121.081	0.381	0.000	0.06	3.4	SURCHARGED
2.000	7	121.739	-0.081	0.000	0.08	0.6	OK
2.001	8	121.639	-0.091	0.000	0.33	5.3	OK
2.002	9	121.539	-0.081	0.000	0.43	6.9	OK
2.003	10	121.364	-0.166	0.000	0.16	7.4	OK
2.004	11	121.161	-0.149	0.000	0.25	7.4	OK
1.006	12	121.083	0.553	0.000	0.20	3.5	SURCHARGED

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Summary of Results for 15 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 100.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status OFF
 DVD Status ON
 Inertia Status ON

		Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (1/s)	Flow (1/s)	Status
1.000	1	122.089	0.089	0.000	0.87	6.3	SURCHARGED
1.001	2	121.948	0.128	0.000	0.90	17.7	SURCHARGED
1.002	3	121.675	0.175	0.000	1.36	21.0	SURCHARGED
1.003	4	121.485	0.085	0.000	1.93	21.0	SURCHARGED
1.004	5	121.107	-0.393	0.000	0.00	20.7	OK
1.005	6	121.107	0.407	0.000	0.06	3.1	SURCHARGED
2.000	7	122.397	0.577	0.000	0.50	3.3	FLOOD RISK
2.001	8	122.377	0.647	0.000	1.77	28.5	FLOOD RISK
2.002	9	122.022	0.402	0.000	2.31	36.7	SURCHARGED
2.003	10	121.506	-0.024	0.000	0.82	39.2	OK
2.004	11	121.349	0.039	0.000	1.33	39.6	SURCHARGED
1.006	12	121.106	0.576	0.000	0.20	3.5	SURCHARGED

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Summary of Results for 30 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 100.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status OFF
 DVD Status ON
 Inertia Status ON

		Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	Status
1.000	1	121.962	-0.038	0.000	0.70	5.1	OK
1.001	2	121.766	-0.054	0.000	0.73	14.3	OK
1.002	3	121.568	0.068	0.000	1.10	17.0	SURCHARGED
1.003	4	121.446	0.046	0.000	1.56	16.9	SURCHARGED
1.004	5	121.268	-0.232	0.000	0.00	16.8	OK
1.005	6	121.268	0.568	0.000	0.05	2.9	SURCHARGED
2.000	7	122.049	0.229	0.000	0.36	2.4	SURCHARGED
2.001	8	122.034	0.304	0.000	1.37	22.1	SURCHARGED
2.002	9	121.821	0.201	0.000	1.80	28.5	SURCHARGED
2.003	10	121.438	-0.092	0.000	0.65	30.9	OK
2.004	11	121.293	-0.017	0.000	1.00	29.9	OK
1.006	12	121.268	0.738	0.000	0.20	3.5	SURCHARGED

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Summary of Results for 60 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 100.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status OFF
 DVD Status ON
 Inertia Status ON

		Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	Status
1.000	1	121.948	-0.052	0.000	0.47	3.4	OK
1.001	2	121.744	-0.076	0.000	0.49	9.6	OK
1.002	3	121.456	-0.044	0.000	0.73	11.3	OK
1.003	4	121.403	0.003	0.000	1.03	11.1	SURCHARGED
1.004	5	121.378	-0.122	0.000	0.00	11.0	OK
1.005	6	121.378	0.678	0.000	0.05	3.0	SURCHARGED
2.000	7	121.761	-0.059	0.000	0.24	1.5	OK
2.001	8	121.751	0.021	0.000	0.92	14.8	SURCHARGED
2.002	9	121.656	0.036	0.000	1.20	18.9	SURCHARGED
2.003	10	121.409	-0.121	0.000	0.43	20.5	OK
2.004	11	121.379	0.069	0.000	0.69	20.6	SURCHARGED
1.006	12	121.377	0.847	0.000	0.20	3.5	SURCHARGED

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Summary of Results for 120 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 100.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status OFF
 DVD Status ON
 Inertia Status ON

		Water	Surcharged	Flooded		Pipe	
PN	US/MH	Level	Depth	Volume	Flow / Overflow	Flow	Status
	Name	(m)	(m)	(m³)	Cap.	(l/s)	
1.000	1	121.937	-0.063	0.000	0.29	2.1	OK
1.001	2	121.726	-0.094	0.000	0.30	6.0	OK
1.002	3	121.421	-0.079	0.000	0.46	7.1	OK
1.003	4	121.400	0.000	0.000	0.66	7.1	SURCHARGED
1.004	5	121.399	-0.101	0.000	0.00	7.1	OK
1.005	6	121.399	0.699	0.000	0.06	3.3	SURCHARGED
2.000	7	121.745	-0.075	0.000	0.15	1.0	OK
2.001	8	121.662	-0.068	0.000	0.57	9.2	OK
2.002	9	121.568	-0.052	0.000	0.75	11.9	OK
2.003	10	121.404	-0.126	0.000	0.27	12.9	OK
2.004	11	121.399	0.089	0.000	0.43	12.9	SURCHARGED
1.006	12	121.399	0.869	0.000	0.20	3.5	SURCHARGED

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Summary of Results for 180 minute 100 year Winter (Storm)

Margin for Flood Risk Warning (mm) 100.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status OFF
 DVD Status ON
 Inertia Status ON

		Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Level (m)	Depth (m)	Volume (m ³)	Flow / Overflow Cap. (l/s)	Flow (l/s)	Status
1.000	1	121.932	-0.068	0.000	0.22	1.6	OK
1.001	2	121.718	-0.102	0.000	0.23	4.5	OK
1.002	3	121.411	-0.089	0.000	0.35	5.4	OK
1.003	4	121.365	-0.035	0.000	0.49	5.4	OK
1.004	5	121.364	-0.136	0.000	0.00	5.3	OK
1.005	6	121.364	0.664	0.000	0.06	3.4	SURCHARGED
2.000	7	121.742	-0.078	0.000	0.11	0.7	OK
2.001	8	121.649	-0.081	0.000	0.43	7.0	OK
2.002	9	121.551	-0.069	0.000	0.57	9.0	OK
2.003	10	121.374	-0.156	0.000	0.20	9.7	OK
2.004	11	121.366	0.056	0.000	0.32	9.7	SURCHARGED
1.006	12	121.364	0.834	0.000	0.20	3.5	SURCHARGED