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Pinnacle House 3 Meridian Way Norwich NR7 0TA	Havant Catchment A, B and F	
Date 04/05/2021	Designed by iran.limbu	
File SW NETWORK 1.MDX	Checked by	
XP Solutions	Network 2017.1.2	

Manhole Schedules for Storm

MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	Pipe Out PN Invert Level (m) Diameter (mm)	Pipes In PN Invert Level (m) Diameter (mm)	Backdrop (mm)
S12	13.338	0.892	Open Manhole	1200	5.014 12.446 450	12.000 12.783 600 5.013 12.446 450	
S13	13.000	0.650	Open Manhole	1200	5.015 12.350 450	5.014 12.350 450	
	12.890	0.650	Open Manhole	1200	OUTFALL	5.015 12.240 450	

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Area Summary for Storm

Pipe Number	PIMP Type	PIMP Name	PIMP (%)	Gross Area (ha)	Imp. Area (ha)	Pipe Total (ha)
5.000	-	-	100	0.059	0.059	0.059
5.001	-	-	100	0.059	0.059	0.059
5.002	-	-	100	0.059	0.059	0.059
5.003	-	-	100	0.059	0.059	0.059
6.000	-	-	100	0.059	0.059	0.059
5.004	-	-	100	0.059	0.059	0.059
7.000	-	-	100	0.150	0.150	0.150
7.001	-	-	100	0.150	0.150	0.150
7.002	-	-	100	0.150	0.150	0.150
7.003	-	-	100	0.056	0.056	0.056
8.000	-	-	100	0.056	0.056	0.056
7.004	-	-	100	0.000	0.000	0.000
5.005	User	-	100	0.013	0.013	0.013
9.000	-	-	100	0.044	0.044	0.044
9.001	-	-	100	0.044	0.044	0.044
9.002	-	-	100	0.044	0.044	0.044
9.003	-	-	100	0.044	0.044	0.044
9.004	-	-	100	0.044	0.044	0.044
10.000	-	-	100	0.072	0.072	0.072
10.001	-	-	100	0.072	0.072	0.072
10.002	-	-	100	0.072	0.072	0.072
10.003	-	-	100	0.072	0.072	0.072
9.005	-	-	100	0.000	0.000	0.000
5.006	-	-	100	0.000	0.000	0.000
5.007	User	-	100	0.029	0.029	0.029
	User	-	100	0.171	0.171	0.199
5.008	-	-	100	0.000	0.000	0.000
5.009	User	-	100	0.046	0.046	0.046
	User	-	100	0.160	0.160	0.206
	User	-	100	0.034	0.034	0.240
	User	-	100	0.118	0.118	0.358
5.010	User	-	100	0.027	0.027	0.027
11.000	User	-	100	0.282	0.282	0.282
11.001	User	-	100	0.136	0.136	0.136
5.011	User	-	100	0.045	0.045	0.045
5.012	User	-	100	0.021	0.021	0.021
12.000	-	-	100	0.000	0.000	0.000
5.013	-	-	100	0.000	0.000	0.000
5.014	-	-	100	0.000	0.000	0.000
5.015	-	-	100	0.000	0.000	0.000
				Total	Total	Total
				2.506	2.506	2.506

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)
5.015		12.890	12.240	12.240	1200	0

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Simulation Criteria for Storm

Volumetric Runoff Coeff	0.750	Additional Flow - % of Total Flow	0.000
Areal Reduction Factor	1.000	MADD Factor * 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)	2880
Foul Sewage per hectare (l/s)	0.000	Output Interval (mins)	24

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
 Number of Online Controls 2 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model	FEH	E (1km)	0.310
Return Period (years)	100	F (1km)	2.252
FEH Rainfall Version	1999	Summer Storms	Yes
Site Location GB 472400 107400 SU 72400 07400		Winter Storms	No
C (1km)	-0.029	Cv (Summer)	0.750
D1 (1km)	0.457	Cv (Winter)	0.840
D2 (1km)	0.295	Storm Duration (mins)	1440
D3 (1km)	0.387		

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Online Controls for Storm

Pump Manhole: S1, DS/PN: 5.004, Volume (m³): 10.6

Invert Level (m) 12.819

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)
0.200	65.0000	1.400	0.0000	2.600	0.0000	3.800	0.0000	5.000	0.0000
0.400	65.0000	1.600	0.0000	2.800	0.0000	4.000	0.0000	5.200	0.0000
0.600	65.0000	1.800	0.0000	3.000	0.0000	4.200	0.0000	5.400	0.0000
0.800	65.0000	2.000	0.0000	3.200	0.0000	4.400	0.0000	5.600	0.0000
1.000	65.0000	2.200	0.0000	3.400	0.0000	4.600	0.0000	5.800	0.0000
1.200	65.0000	2.400	0.0000	3.600	0.0000	4.800	0.0000	6.000	0.0000

Orifice Manhole: S11, DS/PN: 5.013, Volume (m³): 8.3

Diameter (m) 0.263 Discharge Coefficient 0.600 Invert Level (m) 12.783

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Storage Structures for Storm

Cellular Storage Manhole: ATT, DS/PN: 12.000

Invert Level (m) 12.783 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	640.0	640.0	1.000	640.0	744.0	1.001	0.0	744.0