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Grange House Bearsted Green Business Centre Bearsted, Kent, ME14 4DZ	East Hill Chatham Kent	
Date 13/01/2023 12:07 File K2275 SW Network 01.12.2...	Designed by C Hoskins Checked by S Wright	
Innovyze	Network 2017.1.2	

STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for K2275 SW NETWORK 1.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
1.011	18.292	0.079	231.6	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.012	11.763	0.062	189.7	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.013	23.524	0.050	470.5	0.000	0.00	0.0	0.600	o	600	Pipe/Conduit	
1.014	5.000	0.011	454.5	0.000	0.00	0.0	0.600	o	600	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)
1.011	6.58	9.12	91.025	1.198	0.0	0.0	0.0	1.60	451.3	21.9
1.012	6.50	9.23	91.000	1.198	0.0	0.0	0.0	1.76	498.9	21.9
1.013	6.26	9.58	90.938	1.198	0.0	0.0	0.0	1.12	315.5	21.9
1.014	6.22	9.65	90.888	1.198	0.0	0.0	0.0	1.14	321.1	21.9

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Manhole Schedules for K2275 SW NETWORK 1.SWS											
MH Name	MH CL (m)	MH Depth (m)	MH Connection	MH Diam., L*W (mm)	PN	Pipe Out Invert Level (m)	Diameter (mm)	PN	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
1	102.656	5.188	Open Manhole	1350	1.000	97.468	225				
2	100.671	3.547	Open Manhole	1350	1.001	97.124	225	1.000	97.274	225	150
3	99.782	2.742	Open Manhole	1350	1.002	97.040	225	1.001	97.040	225	
4	102.750	4.069	Open Manhole	1200	2.000	98.681	150				
5	101.964	3.530	Open Manhole	1200	2.001	98.434	225	2.000	98.434	150	
6	100.794	2.726	Open Manhole	1200	2.002	98.068	225	2.001	98.068	225	
7	99.460	2.493	Open Manhole	1350	1.003	96.967	300	1.002	96.967	225	
								2.002	97.042	225	
8	98.900	3.324	Open Manhole	1350	1.004	95.576	300	1.003	95.576	300	
9	98.201	3.984	Open Manhole	1350	1.005	94.217	300	1.004	94.217	300	
10	102.382	2.856	Open Manhole	1200	3.000	99.526	150				
11	100.683	3.820	Open Manhole	1200	3.001	96.863	225	3.000	96.938	150	
12	99.254	1.350	Open Manhole	1200	4.000	97.904	150				
13	98.913	1.575	Open Manhole	1200	4.001	97.338	225	4.000	97.413	150	
14	99.818	3.179	Open Manhole	1200	4.002	96.639	225	4.001	96.639	225	
15	100.177	3.977	Open Manhole	1200	3.002	96.200	300	3.001	96.275	225	
								4.002	96.275	225	
16	95.090	1.890	Open Manhole	1200	5.000	93.200	300				
17	94.987	1.997	Open Manhole	1350	3.003	92.990	450	3.002	93.140	300	
								5.000	93.140	300	
18	94.888	1.916	Open Manhole	1200	3.004	92.972	450	3.003	92.972	450	
19	94.488	1.674	Open Manhole	1350	3.005	92.814	450	3.004	92.814	450	
20	94.495	1.695	Open Manhole	1350	3.006	92.800	450	3.005	92.800	450	
21	94.829	2.067	Open Manhole	1350	3.007	92.762	450	3.006	92.762	450	
22	95.033	2.289	Open Manhole	1350	3.008	92.744	450	3.007	92.744	450	
23	96.382	3.713	Open Manhole	1350	3.009	92.669	450	3.008	92.669	450	
24	96.984	4.583	Open Manhole	1500	1.006	92.401	600	1.005	92.788	300	87
								3.009	92.551	450	
25	96.601	4.231	Open Manhole	1500	1.007	92.370	600	1.006	92.370	600	
26	95.136	2.835	Open Manhole	1500	1.008	92.301	600	1.007	92.301	600	
27	94.564	2.699	Open Manhole	1500	1.009	91.865	600	1.008	91.865	600	
28	93.500	2.134	Open Manhole	1500	1.010	91.366	600	1.009	91.366	600	
29	92.500	1.475	Open Manhole	1500	1.011	91.025	600	1.010	91.025	600	
30	91.750	0.804	Open Manhole	1500	1.012	91.000	600	1.011	90.946	600	
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<u>Synthetic Rainfall Details</u> C (1km) 0.000 D1 (1km) 0.000 D2 (1km) 0.000 D3 (1km) 0.000 E (1km) 0.000 F (1km) 0.000 Summer Storms Yes Winter Storms No Cv (Summer) 0.750 Cv (Winter) 0.840 Storm Duration (mins) 30		
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