

Paul Basham Associates		Page 1
Lancaster Court	189.5005 ANGMERING	
Fareham	P2 NW	
Hampshire, PO15 5TU	50% AEP +40% CC	
Date 08/10/2025	Designed by LEC	
File 251007_NW PHASE 2.MDX	Checked by COH	
Innovyze	Network 2020.1.3	

Time Area Diagram for Surface Network 3

Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)	Time (mins)	Area (ha)
0-4	0.837	4-8	1.215	8-12	0.114	12-16	0.000

Total Area Contributing (ha) = 2.166

Total Pipe Volume (m³) = 1336.015

Paul Basham Associates										Page 2		
Lancaster Court Fareham Hampshire, PO15 5TU					189.5005 ANGMERING P2 NW 50% AEP +40% CC							
Date 08/10/2025 File 251007_NW PHASE 2.MDX					Designed by LEC Checked by COH							
Innovyze					Network 2020.1.3							
STORM SEWER DESIGN by the Modified Rational Method												
Network Design Table for Surface Network 3												
« - Indicates pipe capacity < flow												
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	10.412	0.130	80.0	0.002	5.00	0.0	0.600		o	100	Pipe/Conduit	
1.001	9.266	0.116	79.9	0.012	0.00	0.0	0.600		o	150	Pipe/Conduit	
1.002	9.127	0.194	47.0	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
2.000	1.710	0.244	7.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
2.001	11.017	0.138	79.8	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
1.003	12.738	0.398	32.0	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
3.000	10.666	0.240	44.4	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
1.004	6.160	0.880	7.0	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
1.005	12.784	0.418	30.6	0.029	0.00	0.0	0.600		o	150	Pipe/Conduit	
4.000	9.641	0.121	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
4.001	8.793	0.670	13.1	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
1.006	21.670	0.648	33.5	0.071	0.00	0.0	0.600		o	375	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	5.20	39.100	0.002	0.0	0.0	0.0	0.86	6.8	0.4		
1.001	50.00	5.34	38.920	0.014	0.0	0.0	0.0	1.13	19.9	2.6		
1.002	50.00	5.44	38.804	0.014	0.0	0.0	0.0	1.47	26.0	2.6		
2.000	50.00	5.01	39.042	0.000	0.0	0.0	0.0	2.94	23.1	0.0		
2.001	50.00	5.22	38.798	0.000	0.0	0.0	0.0	0.86	6.8	0.0		
1.003	50.00	5.56	38.610	0.014	0.0	0.0	0.0	1.79	31.6	2.6		
3.000	50.00	5.15	38.500	0.000	0.0	0.0	0.0	1.16	9.1	0.0		
1.004	50.00	5.59	38.210	0.014	0.0	0.0	0.0	3.83	67.7	2.6		
1.005	50.00	5.70	37.388	0.043	0.0	0.0	0.0	1.83	32.3	7.8		
4.000	50.00	5.19	37.811	0.000	0.0	0.0	0.0	0.86	6.8	0.0		
4.001	50.00	5.25	37.690	0.000	0.0	0.0	0.0	2.14	16.8	0.0		
1.006	50.00	5.82	36.745	0.115	0.0	0.0	0.0	3.14	347.0	20.7		
©1982-2020 Innovyze												

Paul Basham Associates										Page 3		
Lancaster Court Fareham Hampshire, PO15 5TU					189.5005 ANGMERING P2 NW 50% AEP +40% CC							
Date 08/10/2025					Designed by LEC							
File 251007_NW PHASE 2.MDX					Checked by COH							
Innovyze					Network 2020.1.3							
STORM SEWER DESIGN by the Modified Rational Method												
Network Design Table for Surface Network 3												
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
5.000	11.773	0.147	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
5.001	7.703	0.096	80.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
6.000	10.903	0.155	70.3	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
5.002	3.657	0.070	52.2	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
5.003	14.426	1.078	13.4	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
7.000	9.220	0.115	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
7.001	14.067	0.844	16.7	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
8.000	8.861	0.210	42.3	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
8.001	7.206	0.133	54.3	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
8.002	5.978	0.444	13.5	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
7.002	4.272	0.234	18.3	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
1.007	55.615	0.171	325.0	0.103	0.00	0.0	0.600		o	450	Pipe/Conduit	
9.000	10.219	0.148	68.9	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
9.001	7.314	0.656	11.1	0.000	0.00	0.0	0.600		o	100	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)		
5.000	50.00	5.23	37.763	0.000	0.0	0.0	0.0	0.86	6.8	0.0		
5.001	50.00	5.38	37.616	0.000	0.0	0.0	0.0	0.86	6.8	0.0		
6.000	50.00	5.20	37.675	0.000	0.0	0.0	0.0	0.92	7.2	0.0		
5.002	50.00	5.43	37.520	0.000	0.0	0.0	0.0	1.07	8.4	0.0		
5.003	50.00	5.55	37.450	0.000	0.0	0.0	0.0	2.12	16.7	0.0		
7.000	50.00	5.18	37.565	0.000	0.0	0.0	0.0	0.86	6.8	0.0		
7.001	50.00	5.30	37.450	0.000	0.0	0.0	0.0	1.90	14.9	0.0		
8.000	50.00	5.12	37.392	0.000	0.0	0.0	0.0	1.19	9.3	0.0		
8.001	50.00	5.24	37.183	0.000	0.0	0.0	0.0	1.05	8.2	0.0		
8.002	50.00	5.29	37.050	0.000	0.0	0.0	0.0	2.12	16.6	0.0		
7.002	50.00	5.34	36.606	0.000	0.0	0.0	0.0	1.82	14.3	0.0		
1.007	50.00	6.65	36.022	0.217	0.0	0.0	0.0	1.12	178.5	39.3		
9.000	50.00	5.18	37.118	0.000	0.0	0.0	0.0	0.93	7.3	0.0		
9.001	50.00	5.24	36.970	0.000	0.0	0.0	0.0	2.33	18.3	0.0		
©1982-2020 Innovyze												

Paul Basham Associates											Page 4	
Lancaster Court Fareham Hampshire, PO15 5TU					189.5005 ANGMERING P2 NW 50% AEP +40% CC							
Date 08/10/2025 File 251007_NW PHASE 2.MDX					Designed by LEC Checked by COH							
Innovyze					Network 2020.1.3							
STORM SEWER DESIGN by the Modified Rational Method												
Network Design Table for Surface Network 3												
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
1.008	33.029	0.102	325.0	0.087	0.00	0.0	0.600		o	450	Pipe/Conduit	
10.000	9.805	0.123	80.0	0.012	5.00	0.0	0.600		o	100	Pipe/Conduit	
10.001	5.876	1.098	5.3	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
11.000	9.518	0.119	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
11.001	4.213	1.105	3.8	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
10.002	37.768	1.556	24.3	0.036	0.00	0.0	0.600		o	150	Pipe/Conduit	
12.000	11.550	0.144	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
12.001	9.646	0.200	48.2	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
13.000	10.031	0.462	21.7	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
13.001	2.533	0.150	16.9	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
12.002	6.296	0.751	8.4	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
1.009	29.804	0.092	325.0	0.055	0.00	0.0	0.600		o	450	Pipe/Conduit	
1.010	22.700	0.070	325.0	0.008	0.00	0.0	0.600		o	450	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	50.00	7.14	35.851	0.304		0.0	0.0	0.0	1.12	178.5	54.9	
10.000	50.00	5.19	38.877	0.012		0.0	0.0	0.0	0.86	6.8	2.2	
10.001	50.00	5.22	38.754	0.012		0.0	0.0	0.0	3.37	26.4	2.2	
11.000	50.00	5.18	38.880	0.000		0.0	0.0	0.0	0.86	6.8	0.0	
11.001	50.00	5.20	38.761	0.000		0.0	0.0	0.0	3.99	31.3	0.0	
10.002	50.00	5.53	37.606	0.048		0.0	0.0	0.0	2.05	36.3	8.7	
12.000	50.00	5.22	37.194	0.000		0.0	0.0	0.0	0.86	6.8	0.0	
12.001	50.00	5.37	37.050	0.000		0.0	0.0	0.0	1.11	8.7	0.0	
13.000	50.00	5.10	37.462	0.000		0.0	0.0	0.0	1.66	13.1	0.0	
13.001	50.00	5.12	37.000	0.000		0.0	0.0	0.0	1.89	14.8	0.0	
12.002	50.00	5.41	36.850	0.000		0.0	0.0	0.0	2.69	21.1	0.0	
1.009	50.00	7.58	35.794	0.407		0.0	0.0	0.0	1.12	178.5	73.5	
1.010	50.00	7.92	35.658	0.415		0.0	0.0	0.0	1.12	178.5	74.9	
©1982-2020 Innovyze												

Paul Basham Associates											Page 5	
Lancaster Court Fareham Hampshire, PO15 5TU					189.5005 ANGMERING P2 NW 50% AEP +40% CC							
Date 08/10/2025 File 251007_NW PHASE 2.MDX					Designed by LEC Checked by COH							
Innovyze					Network 2020.1.3							
STORM SEWER DESIGN by the Modified Rational Method												
Network Design Table for Surface Network 3												
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
1.011	22.299	0.069	325.0	0.064	0.00	0.0	0.600		o	450	Pipe/Conduit	
14.000	11.792	0.147	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
14.001	13.835	0.173	80.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
15.000	13.167	0.165	80.0	0.002	5.00	0.0	0.600		o	100	Pipe/Conduit	
16.000	9.904	0.124	80.0	0.007	5.00	0.0	0.600		o	100	Pipe/Conduit	
15.001	5.779	0.072	80.0	0.002	0.00	0.0	0.600		o	100	Pipe/Conduit	
14.002	24.178	0.378	63.9	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
17.000	10.759	0.755	14.2	0.009	5.00	0.0	0.600		o	100	Pipe/Conduit	
14.003	10.071	1.515	6.6	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
1.012	21.724	0.067	325.0	0.034	0.00	0.0	0.600		o	450	Pipe/Conduit	
1.013	23.535	0.072	325.0	0.026	0.00	0.0	0.600		o	450	Pipe/Conduit	
1.014	33.526	0.958	35.0	0.073	0.00	0.0	0.600		o	450	Pipe/Conduit	
Network Results Table												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E 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	50.00	8.25	35.588	0.479		0.0	0.0	0.0	1.12	178.5	86.5	
14.000	50.00	5.23	38.134	0.000		0.0	0.0	0.0	0.86	6.8	0.0	
14.001	50.00	5.50	37.986	0.000		0.0	0.0	0.0	0.86	6.8	0.0	
15.000	50.00	5.25	38.050	0.002		0.0	0.0	0.0	0.86	6.8	0.4	
16.000	50.00	5.19	38.009	0.007		0.0	0.0	0.0	0.86	6.8	1.3	
15.001	50.00	5.37	37.885	0.012		0.0	0.0	0.0	0.86	6.8	2.2	
14.002	50.00	5.82	37.763	0.012		0.0	0.0	0.0	1.26	22.3	2.2	
17.000	50.00	5.09	38.190	0.009		0.0	0.0	0.0	2.06	16.2	1.6	
14.003	50.00	5.86	37.385	0.021		0.0	0.0	0.0	3.93	69.5	3.8	
1.012	50.00	8.57	35.519	0.534		0.0	0.0	0.0	1.12	178.5	96.4	
1.013	50.00	8.92	35.452	0.560		0.0	0.0	0.0	1.12	178.5	101.1	
1.014	50.00	9.08	35.380	0.633		0.0	0.0	0.0	3.45	548.0	114.3	
©1982-2020 Innovyze												

Paul Basham Associates											Page 6	
Lancaster Court Fareham Hampshire, PO15 5TU					189.5005 ANGMERING P2 NW 50% AEP +40% CC							
Date 08/10/2025 File 251007_NW PHASE 2.MDX					Designed by LEC Checked by COH							
Innovyze					Network 2020.1.3							
STORM SEWER DESIGN by the Modified Rational Method												
Network Design Table for Surface Network 3												
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
18.000	5.166	0.065	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
18.001	13.896	0.174	80.0	0.003	0.00	0.0	0.600		o	100	Pipe/Conduit	
18.002	6.550	0.130	50.4	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
19.000	4.146	0.119	34.8	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
18.003	9.632	1.415	6.8	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
20.000	7.044	0.104	67.7	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
20.001	3.767	0.135	27.9	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
20.002	9.600	0.510	18.8	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
20.003	9.620	1.325	7.3	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
1.015	12.321	1.232	10.0	0.030	0.00	0.0	0.600		o	450	Pipe/Conduit	
21.000	10.919	0.136	80.0	0.010	5.00	0.0	0.600		o	100	Pipe/Conduit	
21.001	6.127	0.843	7.3	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
21.002	47.631	0.733	65.0	0.098	0.00	0.0	0.600		o	300	Pipe/Conduit	
1.016	7.877	0.342	23.0	0.000	0.00	0.0	0.600		o	450	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)		
18.000	50.00	5.10	36.548	0.000		0.0	0.0	0.0	0.86	6.8	0.0	
18.001	50.00	5.37	36.484	0.003		0.0	0.0	0.0	0.86	6.8	0.5	
18.002	50.00	5.47	36.310	0.003		0.0	0.0	0.0	1.09	8.5	0.5	
19.000	50.00	5.05	36.299	0.000		0.0	0.0	0.0	1.31	10.3	0.0	
18.003	50.00	5.52	36.180	0.003		0.0	0.0	0.0	2.98	23.4	0.5	
20.000	50.00	5.13	36.839	0.000		0.0	0.0	0.0	0.94	7.4	0.0	
20.001	50.00	5.17	36.735	0.000		0.0	0.0	0.0	1.47	11.5	0.0	
20.002	50.00	5.26	36.600	0.000		0.0	0.0	0.0	1.79	14.0	0.0	
20.003	50.00	5.31	36.090	0.000		0.0	0.0	0.0	2.89	22.7	0.0	
1.015	50.00	9.11	34.415	0.666		0.0	0.0	0.0	6.46	1027.0	120.3	
21.000	50.00	5.21	35.286	0.010		0.0	0.0	0.0	0.86	6.8	1.8	
21.001	50.00	5.25	35.150	0.010		0.0	0.0	0.0	2.89	22.7	1.8	
21.002	50.00	5.65	34.107	0.108		0.0	0.0	0.0	1.95	138.1	19.5	
1.016	50.00	9.14	33.225	0.774		0.0	0.0	0.0	4.25	676.5	139.8	
©1982-2020 Innovyze												

Paul Basham Associates

Lancaster Court
Fareham
Hampshire, PO15 5TU

Date 08/10/2025
File 251007_NW PHASE 2.MDX

Innovyze

189.5005 ANGMERING
P2 NW
50% AEP +40% CC

Designed by LEC
Checked by COH

Network 2020.1.3

Page 7



STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 3

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
22.000	9.614	0.534	18.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
22.001	15.386	0.246	62.5	0.004	0.00	0.0	0.600		o	100	Pipe/Conduit	
23.000	11.472	0.544	21.1	0.010	5.00	0.0	0.600		o	100	Pipe/Conduit	
22.002	4.772	0.940	5.1	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
22.003	15.004	1.522	9.9	0.020	0.00	0.0	0.600		o	150	Pipe/Conduit	
24.000	10.642	0.133	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
24.001	13.228	0.165	80.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
25.000	12.266	0.153	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
24.002	12.565	0.165	76.2	0.025	0.00	0.0	0.600		o	150	Pipe/Conduit	
22.004	50.482	0.620	81.4	0.055	0.00	0.0	0.600		o	225	Pipe/Conduit	
1.017	33.119	0.561	59.0	0.046	0.00	0.0	0.600		o	450	Pipe/Conduit	
26.000	8.268	0.387	21.4	0.006	5.00	0.0	0.600		o	100	Pipe/Conduit	
26.001	9.893	1.405	7.0	0.000	0.00	0.0	0.600		o	100	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)
22.000	50.00	5.09	37.098	0.000	0.0	0.0	0.0	1.83	14.4	0.0
22.001	50.00	5.35	36.564	0.004	0.0	0.0	0.0	0.98	7.7	0.7
23.000	50.00	5.11	36.862	0.010	0.0	0.0	0.0	1.69	13.3	1.8
22.002	50.00	5.37	36.318	0.014	0.0	0.0	0.0	3.46	27.1	2.4
22.003	50.00	5.45	35.327	0.033	0.0	0.0	0.0	3.23	57.1	6.0
24.000	50.00	5.21	34.318	0.000	0.0	0.0	0.0	0.86	6.8	0.0
24.001	50.00	5.46	34.185	0.000	0.0	0.0	0.0	0.86	6.8	0.0
25.000	50.00	5.24	34.173	0.000	0.0	0.0	0.0	0.86	6.8	0.0
24.002	50.00	5.64	33.970	0.025	0.0	0.0	0.0	1.15	20.4	4.5
22.004	50.00	6.22	33.730	0.113	0.0	0.0	0.0	1.45	57.7	20.4
1.017	50.00	9.35	32.885	0.933	0.0	0.0	0.0	2.65	421.6	168.4
26.000	50.00	5.08	34.467	0.006	0.0	0.0	0.0	1.68	13.2	1.1
26.001	50.00	5.14	34.080	0.006	0.0	0.0	0.0	2.93	23.0	1.1

©1982-2020 Innovyze

Paul Basham Associates											Page 8	
Lancaster Court Fareham Hampshire, PO15 5TU					189.5005 ANGMERING P2 NW 50% AEP +40% CC							
Date 08/10/2025 File 251007_NW PHASE 2.MDX					Designed by LEC Checked by COH							
Innovyze					Network 2020.1.3							
STORM SEWER DESIGN by the Modified Rational Method												
Network Design Table for Surface Network 3												
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
1.018	22.661	0.629	36.0	0.055	0.00	0.0	0.600		o	450	Pipe/Conduit	
27.000	11.177	1.131	9.9	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
27.001	12.971	0.170	76.3	0.009	0.00	0.0	0.600		o	100	Pipe/Conduit	
28.000	9.370	1.159	8.1	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
27.002	6.856	0.132	51.9	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
1.019	16.453	1.266	13.0	0.018	0.00	0.0	0.600		o	450	Pipe/Conduit	
29.000	7.951	0.124	63.9	0.002	5.00	0.0	0.600		o	100	Pipe/Conduit	
30.000	4.703	0.150	31.3	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
29.001	11.155	0.898	12.4	0.011	0.00	0.0	0.600		o	100	Pipe/Conduit	
31.000	7.500	0.133	56.4	0.006	5.00	0.0	0.600		o	100	Pipe/Conduit	
31.001	8.759	0.668	13.1	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
Network Results Table												
PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	E I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)		
1.018	50.00	9.46	32.325	0.994	0.0	0.0	0.0	3.40	540.3	179.5		
27.000	50.00	5.08	33.471	0.000	0.0	0.0	0.0	2.47	19.4	0.0		
27.001	50.00	5.32	32.340	0.009	0.0	0.0	0.0	0.88	6.9	1.6		
28.000	50.00	5.06	33.329	0.000	0.0	0.0	0.0	2.74	21.5	0.0		
27.002	50.00	5.43	32.170	0.009	0.0	0.0	0.0	1.07	8.4	1.6		
1.019	50.00	9.51	31.688	1.021	0.0	0.0	0.0	5.66	900.5	184.3		
29.000	50.00	5.14	32.264	0.002	0.0	0.0	0.0	0.96	7.6	0.4		
30.000	50.00	5.06	32.290	0.000	0.0	0.0	0.0	1.38	10.9	0.0		
29.001	50.00	5.22	32.140	0.013	0.0	0.0	0.0	2.20	17.3	2.3		
31.000	50.00	5.12	32.043	0.006	0.0	0.0	0.0	1.03	8.1	1.1		
31.001	50.00	5.19	31.910	0.006	0.0	0.0	0.0	2.15	16.8	1.1		
©1982-2020 Innovyze												

Paul Basham Associates											Page 9	
Lancaster Court Fareham Hampshire, PO15 5TU					189.5005 ANGMERING P2 NW 50% AEP +40% CC							
Date 08/10/2025 File 251007_NW PHASE 2.MDX					Designed by LEC Checked by COH							
Innovyze					Network 2020.1.3							
STORM SEWER DESIGN by the Modified Rational Method												
Network Design Table for Surface Network 3												
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
29.002	30.204	0.121	250.0	0.030	0.00	0.0	0.600		o	450	Pipe/Conduit	
32.000	7.524	0.094	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
32.001	2.496	0.031	80.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
32.002	12.480	0.156	80.0	0.015	0.00	0.0	0.600		o	100	Pipe/Conduit	
32.003	15.694	0.282	55.6	0.007	0.00	0.0	0.600		o	100	Pipe/Conduit	
33.000	7.131	0.089	80.0	0.004	5.00	0.0	0.600		o	100	Pipe/Conduit	
33.001	5.088	0.064	80.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
34.000	7.111	0.089	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
34.001	2.618	0.033	80.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
33.002	11.959	0.505	23.7	0.007	0.00	0.0	0.600		o	100	Pipe/Conduit	
32.004	9.436	0.033	285.5	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
35.000	7.833	1.017	7.7	0.006	5.00	0.0	0.600		o	100	Pipe/Conduit	
29.003	23.133	0.093	250.0	0.025	0.00	0.0	0.600		o	450	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)		
29.002	50.00	5.61	30.659	0.049		0.0	0.0	0.0	1.28	203.8	8.9	
32.000	50.00	5.15	31.739	0.000		0.0	0.0	0.0	0.86	6.8	0.0	
32.001	50.00	5.19	31.645	0.000		0.0	0.0	0.0	0.86	6.8	0.0	
32.002	50.00	5.44	31.614	0.015		0.0	0.0	0.0	0.86	6.8	2.6	
32.003	50.00	5.69	31.458	0.022		0.0	0.0	0.0	1.04	8.1	4.0	
33.000	50.00	5.14	31.833	0.004		0.0	0.0	0.0	0.86	6.8	0.8	
33.001	50.00	5.24	31.743	0.004		0.0	0.0	0.0	0.86	6.8	0.8	
34.000	50.00	5.14	32.018	0.000		0.0	0.0	0.0	0.86	6.8	0.0	
34.001	50.00	5.19	31.929	0.000		0.0	0.0	0.0	0.86	6.8	0.0	
33.002	50.00	5.36	31.680	0.012		0.0	0.0	0.0	1.59	12.5	2.1	
32.004	50.00	5.95	31.175	0.034		0.0	0.0	0.0	0.59	10.4	6.1	
35.000	50.00	5.05	31.937	0.006		0.0	0.0	0.0	2.80	22.0	1.0	
29.003	50.00	6.26	30.593	0.113		0.0	0.0	0.0	1.28	203.8	20.4	
©1982-2020 Innovyze												

Paul Basham Associates											Page 10	
Lancaster Court Fareham Hampshire, PO15 5TU					189.5005 ANGMERING P2 NW 50% AEP +40% CC							
Date 08/10/2025 File 251007_NW PHASE 2.MDX					Designed by LEC Checked by COH							
Innovyze					Network 2020.1.3							
STORM SEWER DESIGN by the Modified Rational Method												
Network Design Table for Surface Network 3												
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
1.020	7.558	0.054	140.0	0.000	0.00	0.0	0.600		o	525	Pipe/Conduit	
36.000	3.508	0.024	148.2	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
36.001	2.286	0.029	80.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
36.002	13.189	0.165	80.0	0.020	0.00	0.0	0.600		o	100	Pipe/Conduit	
37.000	7.902	0.452	17.5	0.007	5.00	0.0	0.600		o	100	Pipe/Conduit	
36.003	4.457	0.689	6.5	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
36.004	10.709	0.214	50.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
38.000	7.521	0.709	10.6	0.006	5.00	0.0	0.600		o	100	Pipe/Conduit	
38.001	5.737	0.896	6.4	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
1.021	11.627	0.147	79.0	0.013	0.00	0.0	0.600		o	525	Pipe/Conduit	
39.000	8.659	0.116	74.5	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
39.001	8.590	0.743	11.6	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
1.022	7.917	0.417	19.0	0.006	0.00	0.0	0.600		o	525	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)		
1.020	50.00	9.58	30.371	1.134		0.0	0.0		0.0	1.89	409.4	204.7
36.000	50.00	5.09	31.865	0.000		0.0	0.0		0.0	0.63	4.9	0.0
36.001	50.00	5.14	31.841	0.000		0.0	0.0		0.0	0.86	6.8	0.0
36.002	50.00	5.39	31.813	0.020		0.0	0.0		0.0	0.86	6.8	3.5
37.000	50.00	5.07	32.100	0.007		0.0	0.0		0.0	1.86	14.6	1.3
36.003	50.00	5.42	31.648	0.027		0.0	0.0		0.0	3.06	24.0	4.9
36.004	50.00	5.58	30.959	0.027		0.0	0.0		0.0	1.09	8.6	4.9
38.000	50.00	5.05	32.349	0.006		0.0	0.0		0.0	2.39	18.7	1.1
38.001	50.00	5.08	31.640	0.006		0.0	0.0		0.0	3.08	24.2	1.1
1.021	50.00	9.66	30.319	1.180		0.0	0.0		0.0	2.52	545.9	213.1
39.000	50.00	5.16	31.456	0.000		0.0	0.0		0.0	0.89	7.0	0.0
39.001	50.00	5.22	31.340	0.000		0.0	0.0		0.0	2.29	18.0	0.0
1.022	50.00	9.68	30.172	1.186		0.0	0.0		0.0	5.16	1116.1	214.1
©1982-2020 Innovyze												

Paul Basham Associates

Lancaster Court
Fareham
Hampshire, PO15 5TU

Date 08/10/2025
File 251007_NW PHASE 2.MDX

189.5005 ANGMERING
P2 NW
50% AEP +40% CC

Designed by LEC
Checked by COH

Innovyze

Network 2020.1.3

Page 11



STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 3

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
40.000	8.581	0.380	22.6	0.006	5.00	0.0	0.600		o	100	Pipe/Conduit	
41.000	7.820	0.098	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
40.001	4.149	0.738	5.6	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
1.023	20.562	1.028	20.0	0.036	0.00	0.0	0.600		o	525	Pipe/Conduit	
42.000	12.883	1.093	11.8	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
43.000	9.792	1.293	7.6	0.002	5.00	0.0	0.600		o	100	Pipe/Conduit	
1.024	27.774	1.029	27.0	0.024	0.00	0.0	0.600		o	525	Pipe/Conduit	
44.000	10.869	0.072	151.0	0.005	5.00	0.0	0.600		o	150	Pipe/Conduit	
44.001	22.989	0.153	150.0	0.017	0.00	0.0	0.600		o	225	Pipe/Conduit	
44.002	7.777	0.052	150.0	0.000	0.00	0.0	0.600		o	225	Pipe/Conduit	
1.025	7.778	0.134	58.0	0.016	0.00	0.0	0.600		o	525	Pipe/Conduit	
45.000	9.306	0.193	48.2	0.014	5.00	0.0	0.600		o	100	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)
40.000	50.00	5.09	31.300	0.006	0.0	0.0	0.0	1.63	12.8	1.1
41.000	50.00	5.15	31.018	0.000	0.0	0.0	0.0	0.86	6.8	0.0
40.001	50.00	5.17	30.920	0.006	0.0	0.0	0.0	3.28	25.8	1.1
1.023	50.00	9.75	29.757	1.228	0.0	0.0	0.0	5.02	1087.8	221.7
42.000	50.00	5.09	30.369	0.000	0.0	0.0	0.0	2.26	17.8	0.0
43.000	50.00	5.06	30.437	0.002	0.0	0.0	0.0	2.83	22.2	0.4
1.024	50.00	9.86	28.719	1.254	0.0	0.0	0.0	4.32	935.8	226.5
44.000	50.00	5.22	28.407	0.005	0.0	0.0	0.0	0.82	14.4	0.9
44.001	50.00	5.58	28.209	0.022	0.0	0.0	0.0	1.07	42.4	4.0
44.002	50.00	5.70	28.056	0.022	0.0	0.0	0.0	1.07	42.4	4.0
1.025	50.00	9.90	27.704	1.293	0.0	0.0	0.0	2.95	637.6	233.5
45.000	50.00	5.14	32.962	0.014	0.0	0.0	0.0	1.11	8.7	2.6

©1982-2020 Innovyze

Paul Basham Associates											Page 12	
Lancaster Court Fareham Hampshire, PO15 5TU						189.5005 ANGMERING P2 NW 50% AEP +40% CC						
Date 08/10/2025 File 251007_NW PHASE 2.MDX						Designed by LEC Checked by COH						
Innovyze						Network 2020.1.3						
STORM SEWER DESIGN by the Modified Rational Method												
Network Design Table for Surface Network 3												
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
45.001	5.565	0.354	15.7	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
45.002	25.786	1.127	22.9	0.034	0.00	0.0	0.600		o	150	Pipe/Conduit	
46.000	15.733	0.197	80.0	0.005	5.00	0.0	0.600		o	100	Pipe/Conduit	
46.001	6.279	0.737	8.5	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
46.002	16.310	0.604	27.0	0.012	0.00	0.0	0.600		o	225	Pipe/Conduit	
45.003	22.742	0.948	24.0	0.017	0.00	0.0	0.600		o	300	Pipe/Conduit	
47.000	10.068	0.357	28.2	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
47.001	6.015	1.128	5.3	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
45.004	11.406	0.758	15.0	0.000	0.00	0.0	0.600		o	300	Pipe/Conduit	
48.000	3.308	0.870	3.8	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
45.005	23.558	1.175	20.0	0.031	0.00	0.0	0.600		o	300	Pipe/Conduit	
49.000	7.707	0.184	41.9	0.008	5.00	0.0	0.600		o	100	Pipe/Conduit	
49.001	4.862	0.127	38.3	0.000	0.00	0.0	0.600		o	100	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)		
45.001	50.00	5.19	32.769	0.014	0.0	0.0	0.0	1.96	15.4	2.6		
45.002	50.00	5.39	32.365	0.048	0.0	0.0	0.0	2.11	37.4	8.7		
46.000	50.00	5.30	32.816	0.005	0.0	0.0	0.0	0.86	6.8	0.9		
46.001	50.00	5.34	32.619	0.005	0.0	0.0	0.0	2.67	20.9	0.9		
46.002	50.00	5.45	31.757	0.017	0.0	0.0	0.0	2.53	100.5	3.1		
45.003	50.00	5.57	31.088	0.082	0.0	0.0	0.0	3.22	227.9	14.9		
47.000	50.00	5.12	31.830	0.000	0.0	0.0	0.0	1.46	11.5	0.0		
47.001	50.00	5.14	31.474	0.000	0.0	0.0	0.0	3.37	26.5	0.0		
45.004	50.00	5.62	30.145	0.082	0.0	0.0	0.0	4.07	287.9	14.9		
48.000	50.00	5.01	30.457	0.000	0.0	0.0	0.0	3.99	31.4	0.0		
45.005	50.00	5.73	29.387	0.113	0.0	0.0	0.0	3.53	249.3	20.4		
49.000	50.00	5.11	30.121	0.008	0.0	0.0	0.0	1.19	9.4	1.5		
49.001	50.00	5.17	29.937	0.008	0.0	0.0	0.0	1.25	9.8	1.5		
©1982-2020 Innovyze												

Paul Basham Associates											Page 13	
Lancaster Court Fareham Hampshire, PO15 5TU					189.5005 ANGMERING P2 NW 50% AEP +40% CC							
Date 08/10/2025 File 251007_NW PHASE 2.MDX					Designed by LEC Checked by COH							
Innovyze					Network 2020.1.3							
STORM SEWER DESIGN by the Modified Rational Method												
Network Design Table for Surface Network 3												
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
50.000	6.607	0.166	39.8	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
51.000	4.415	0.635	7.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
50.001	5.451	0.510	10.7	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
49.002	39.123	1.398	28.0	0.054	0.00	0.0	0.600		o	300	Pipe/Conduit	
45.006	23.119	0.077	300.0	0.032	0.00	0.0	0.600		o	375	Pipe/Conduit	
45.007	4.763	0.016	300.0	0.000	0.00	0.0	0.600		o	375	Pipe/Conduit	
52.000	11.196	0.538	20.8	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
52.001	2.303	0.210	11.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
53.000	3.607	0.045	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
53.001	8.956	0.112	80.0	0.006	0.00	0.0	0.600		o	100	Pipe/Conduit	
52.002	5.643	0.071	80.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
45.008	30.979	0.103	300.0	0.023	0.00	0.0	0.600		o	375	Pipe/Conduit	
45.009	8.018	0.027	300.0	0.000	0.00	0.0	0.600		o	375	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)		
50.000	50.00	5.09	30.486	0.000		0.0	0.0	0.0	1.23	9.6	0.0	
51.000	50.00	5.02	30.954	0.000		0.0	0.0	0.0	2.95	23.2	0.0	
50.001	50.00	5.13	30.320	0.000		0.0	0.0	0.0	2.38	18.7	0.0	
49.002	50.00	5.39	29.610	0.063		0.0	0.0	0.0	2.98	210.9	11.3	
45.006	50.00	6.10	28.123	0.208		0.0	0.0	0.0	1.04	115.0	37.6	
45.007	50.00	6.17	28.046	0.208		0.0	0.0	0.0	1.04	115.0	37.6	
52.000	50.00	5.11	29.078	0.000		0.0	0.0	0.0	1.70	13.4	0.0	
52.001	50.00	5.13	28.540	0.000		0.0	0.0	0.0	2.34	18.4	0.0	
53.000	50.00	5.07	28.488	0.000		0.0	0.0	0.0	0.86	6.8	0.0	
53.001	50.00	5.24	28.442	0.006		0.0	0.0	0.0	0.86	6.8	1.1	
52.002	50.00	5.35	28.331	0.006		0.0	0.0	0.0	0.86	6.8	1.1	
45.008	50.00	6.67	28.030	0.237		0.0	0.0	0.0	1.04	115.0	42.9	
45.009	50.00	6.80	27.927	0.237		0.0	0.0	0.0	1.04	115.0	42.9	
©1982-2020 Innovyze												

Paul Basham Associates											Page 14		
Lancaster Court Fareham Hampshire, PO15 5TU						189.5005 ANGMERING P2 NW 50% AEP +40% CC							
Date 08/10/2025 File 251007_NW PHASE 2.MDX						Designed by LEC Checked by COH							
Innovyze						Network 2020.1.3							
STORM SEWER DESIGN by the Modified Rational Method													
Network Design Table for Surface Network 3													
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design	
45.010	32.120	0.170	188.9	0.000	0.00	0.0		0.045	3 \=/	100	1:3 Swale		
54.000	10.057	0.126	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit		
54.001	13.666	0.171	80.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit		
54.002	11.560	0.144	80.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit		
55.000	8.397	0.084	100.0	0.043	5.00	0.0	0.600		o	225	Pipe/Conduit		
55.001	16.538	0.165	100.2	0.017	0.00	0.0	0.600		o	225	Pipe/Conduit		
54.003	10.065	0.113	89.0	0.013	0.00	0.0	0.600		o	225	Pipe/Conduit		
45.011	34.493	0.219	157.5	0.000	0.00	0.0		0.045	3 \=/	100	1:3 Swale		
1.026	6.444	0.041	157.2	0.000	0.00	0.0		0.045	3 \=/	100	1:3 Swale		
1.027	15.494	0.070	221.3	0.000	0.00	0.0		0.045	3 \=/	100	1:3 Swale		
1.028	5.381	0.050	107.6	0.000	0.00	0.0		0.045	3 \=/	100	1:3 Swale		
56.000	13.047	0.480	27.2	0.002	5.00	0.0	0.600		o	100	Pipe/Conduit		
56.001	15.816	0.620	25.5	0.012	0.00	0.0	0.600		o	100	Pipe/Conduit		
57.000	9.443	0.210	45.0	0.006	5.00	0.0	0.600		o	100	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)			
45.010	50.00	7.34	27.900	0.237	0.0	0.0	0.0	0.98	2963.3	42.9			
54.000	50.00	5.19	28.430	0.000	0.0	0.0	0.0	0.86	6.8	0.0			
54.001	50.00	5.46	28.304	0.000	0.0	0.0	0.0	0.86	6.8	0.0			
54.002	50.00	5.68	28.133	0.000	0.0	0.0	0.0	0.86	6.8	0.0			
55.000	50.00	5.11	28.060	0.043	0.0	0.0	0.0	1.31	52.0	7.8			
55.001	50.00	5.32	27.976	0.060	0.0	0.0	0.0	1.31	51.9	10.9			
54.003	50.00	5.80	27.863	0.074	0.0	0.0	0.0	1.39	55.1	13.3			
45.011	50.00	7.87	27.730	0.311	0.0	0.0	0.0	1.08	3245.6	56.2			
1.026	50.00	10.00	27.511	1.604	0.0	0.0	0.0	1.08	3249.1	289.7			
1.027	50.00	10.28	27.470	1.604	0.0	0.0	0.0	0.91	2737.9	289.7			
1.028	50.00	10.35	27.400	1.604	0.0	0.0	0.0	1.30	3926.4	289.7			
56.000	50.00	5.15	28.750	0.002	0.0	0.0	0.0	1.49	11.7	0.4			
56.001	50.00	5.32	28.270	0.014	0.0	0.0	0.0	1.53	12.1	2.5			
57.000	50.00	5.14	28.380	0.006	0.0	0.0	0.0	1.15	9.1	1.1			
©1982-2020 Innovyze													

Paul Basham Associates

Page 17

Lancaster Court
Fareham
Hampshire, PO15 5TU

189.5005 ANGMERING
P2 NW
50% AEP +40% CC

Date 08/10/2025
File 251007_NW PHASE 2.MDX

Designed by LEC
Checked by COH

Innovyze

Network 2020.1.3

STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 3

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
65.002	5.631	0.080	70.4	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
65.003	18.236	0.860	21.2	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
59.008	13.106	0.085	154.2	0.000	0.00	0.0		0.045	3 \=/	100	1:3 Swale	
59.009	12.562	0.085	147.0	0.021	0.00	0.0	0.600		o	225	Pipe/Conduit	
59.010	43.586	0.295	148.0	0.036	0.00	0.0	0.600		o	225	Pipe/Conduit	
67.000	3.306	0.405	8.2	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
59.011	33.471	0.820	40.8	0.017	0.00	0.0	0.600		o	225	Pipe/Conduit	
59.012	2.982	0.225	13.3	0.000	0.00	0.0		0.045	3 \=/	100	1:3 Swale	
68.000	14.858	0.238	62.4	0.000	5.00	0.0	0.600		o	150	Pipe/Conduit	
68.001	12.381	0.093	133.0	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
68.002	19.387	1.275	15.2	0.000	0.00	0.0		0.045	3 \=/	100	1:3 Swale	
59.013	31.895	0.225	141.8	0.000	0.00	0.0	0.600		o	375	Pipe/Conduit	
59.014	16.970	0.160	106.1	0.000	0.00	0.0		0.045	3 \=/	100	1:3 Swale	
59.015	23.137	0.760	30.4	0.026	0.00	0.0		0.045	3 \=/	100	1:3 Swale	
59.016	5.334	0.274	19.5	0.000	0.00	0.0		0.045	3 \=/	100	1:3 Swale	

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)
65.002	50.00	5.51	38.940	0.012	0.0	0.0	0.0	0.92	7.2	2.2
65.003	50.00	5.69	38.860	0.012	0.0	0.0	0.0	1.68	13.2	2.2
59.008	50.00	9.11	37.985	0.143	0.0	0.0	0.0	1.09	3280.3	25.9
59.009	50.00	9.30	37.900	0.165	0.0	0.0	0.0	1.08	42.8	29.7
59.010	50.00	9.98	37.815	0.201	0.0	0.0	0.0	1.07	42.6	36.3
67.000	50.00	5.02	37.925	0.000	0.0	0.0	0.0	2.72	21.4	0.0
59.011	50.00	10.25	37.520	0.218	0.0	0.0	0.0	2.05	81.7	39.4
59.012	50.00	10.27	36.700	0.218	0.0	0.0	0.0	3.44	8204.2	39.4
68.000	50.00	5.19	38.081	0.000	0.0	0.0	0.0	1.28	22.5	0.0
68.001	50.00	5.43	37.843	0.000	0.0	0.0	0.0	0.87	15.4	0.0
68.002	50.00	5.65	37.750	0.000	0.0	0.0	0.0	1.46	330.1	0.0
59.013	50.00	10.62	36.475	0.218	0.0	0.0	0.0	1.52	167.9	39.4
59.014	50.00	10.83	36.250	0.218	0.0	0.0	0.0	1.31	3955.2	39.4
59.015	50.00	10.99	36.090	0.244	0.0	0.0	0.0	2.45	7382.4	44.0
59.016	50.00	11.02	35.330	0.244	0.0	0.0	0.0	3.01	8536.2	44.0

©1982-2020 Innovyze

Paul Basham Associates										Page 18																																																																																																																																																																																																																																																																																																																																																	
Lancaster Court Fareham Hampshire, PO15 5TU					189.5005 ANGMERING P2 NW 50% AEP +40% CC																																																																																																																																																																																																																																																																																																																																																						
Date 08/10/2025 File 251007_NW PHASE 2.MDX					Designed by LEC Checked by COH																																																																																																																																																																																																																																																																																																																																																						
Innovyze					Network 2020.1.3																																																																																																																																																																																																																																																																																																																																																						
<u>STORM SEWER DESIGN by the Modified Rational Method</u> <u>Network Design Table for Surface Network 3</u> <table><tr><th>PN</th><th>Length (m)</th><th>Fall (m)</th><th>Slope (1:X)</th><th>I.Area (ha)</th><th>T.E. (mins)</th><th>Base Flow (l/s)</th><th>k (mm)</th><th>n</th><th>HYD SECT</th><th>DIA (mm)</th><th>Section Type</th><th>Auto Design</th></tr><tr><td>69.000</td><td>21.977</td><td>1.696</td><td>13.0</td><td>0.004</td><td>5.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>100</td><td>Pipe/Conduit</td><td></td></tr><tr><td>70.000</td><td>9.651</td><td>0.121</td><td>79.7</td><td>0.002</td><td>5.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>100</td><td>Pipe/Conduit</td><td></td></tr><tr><td>69.001</td><td>13.857</td><td>0.173</td><td>80.2</td><td>0.008</td><td>0.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>100</td><td>Pipe/Conduit</td><td></td></tr><tr><td>71.000</td><td>10.187</td><td>0.206</td><td>49.4</td><td>0.002</td><td>5.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>100</td><td>Pipe/Conduit</td><td></td></tr><tr><td>69.002</td><td>5.825</td><td>0.335</td><td>17.4</td><td>0.004</td><td>0.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>100</td><td>Pipe/Conduit</td><td></td></tr><tr><td>69.003</td><td>3.004</td><td>0.200</td><td>15.0</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>100</td><td>Pipe/Conduit</td><td></td></tr><tr><td>69.004</td><td>11.253</td><td>0.200</td><td>56.3</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>150</td><td>Pipe/Conduit</td><td></td></tr><tr><td>59.017</td><td>6.547</td><td>0.336</td><td>19.5</td><td>0.010</td><td>0.00</td><td>0.0</td><td></td><td>0.045</td><td>3 \=/</td><td>100</td><td>1:3 Swale</td><td></td></tr><tr><td>59.018</td><td>45.264</td><td>2.912</td><td>15.5</td><td>0.048</td><td>0.00</td><td>0.0</td><td></td><td>0.045</td><td>3 \=/</td><td>100</td><td>1:3 Swale</td><td></td></tr><tr><td>72.000</td><td>10.235</td><td>1.020</td><td>10.0</td><td>0.000</td><td>5.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>100</td><td>Pipe/Conduit</td><td></td></tr><tr><td>72.001</td><td>5.040</td><td>0.300</td><td>16.8</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>100</td><td>Pipe/Conduit</td><td></td></tr><tr><td>72.002</td><td>10.850</td><td>0.370</td><td>29.3</td><td>0.000</td><td>0.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>100</td><td>Pipe/Conduit</td><td></td></tr><tr><td>72.003</td><td>14.857</td><td>0.430</td><td>34.6</td><td>0.002</td><td>0.00</td><td>0.0</td><td>0.600</td><td></td><td>o</td><td>100</td><td>Pipe/Conduit</td><td></td></tr></table> <u>Network Results Table</u> <table><tr><th>PN</th><th>Rain (mm/hr)</th><th>T.C. (mins)</th><th>US/IL (m)</th><th>Σ I.Area (ha)</th><th>Σ Base Flow (l/s)</th><th>Foul (l/s)</th><th>Add Flow (l/s)</th><th>Vel (m/s)</th><th>Cap (l/s)</th><th>Flow (l/s)</th></tr><tr><td>69.000</td><td>50.00</td><td>5.17</td><td>37.704</td><td>0.004</td><td>0.0</td><td>0.0</td><td>0.0</td><td>2.16</td><td>16.9</td><td>0.8</td></tr><tr><td>70.000</td><td>50.00</td><td>5.19</td><td>36.129</td><td>0.002</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.86</td><td>6.8</td><td>0.4</td></tr><tr><td>69.001</td><td>50.00</td><td>5.46</td><td>36.008</td><td>0.015</td><td>0.0</td><td>0.0</td><td>0.0</td><td>0.86</td><td>6.8</td><td>2.6</td></tr><tr><td>71.000</td><td>50.00</td><td>5.15</td><td>36.041</td><td>0.002</td><td>0.0</td><td>0.0</td><td>0.0</td><td>1.10</td><td>8.6</td><td>0.4</td></tr><tr><td>69.002</td><td>50.00</td><td>5.51</td><td>35.835</td><td>0.020</td><td>0.0</td><td>0.0</td><td>0.0</td><td>1.86</td><td>14.6</td><td>3.7</td></tr><tr><td>69.003</td><td>50.00</td><td>5.53</td><td>35.500</td><td>0.020</td><td>0.0</td><td>0.0</td><td>0.0</td><td>2.00</td><td>15.7</td><td>3.7</td></tr><tr><td>69.004</td><td>50.00</td><td>5.67</td><td>35.300</td><td>0.020</td><td>0.0</td><td>0.0</td><td>0.0</td><td>1.34</td><td>23.7</td><td>3.7</td></tr><tr><td>59.017</td><td>50.00</td><td>11.05</td><td>35.056</td><td>0.275</td><td>0.0</td><td>0.0</td><td>0.0</td><td>3.03</td><td>8815.9</td><td>49.6</td></tr><tr><td>59.018</td><td>50.00</td><td>11.28</td><td>34.720</td><td>0.323</td><td>0.0</td><td>0.0</td><td>0.0</td><td>3.42</td><td>10112.9</td><td>58.3</td></tr><tr><td>72.000</td><td>50.00</td><td>5.07</td><td>36.100</td><td>0.000</td><td>0.0</td><td>0.0</td><td>0.0</td><td>2.45</td><td>19.3</td><td>0.0</td></tr><tr><td>72.001</td><td>50.00</td><td>5.11</td><td>35.080</td><td>0.000</td><td>0.0</td><td>0.0</td><td>0.0</td><td>1.89</td><td>14.9</td><td>0.0</td></tr><tr><td>72.002</td><td>50.00</td><td>5.24</td><td>34.780</td><td>0.000</td><td>0.0</td><td>0.0</td><td>0.0</td><td>1.43</td><td>11.2</td><td>0.0</td></tr><tr><td>72.003</td><td>50.00</td><td>5.43</td><td>34.410</td><td>0.002</td><td>0.0</td><td>0.0</td><td>0.0</td><td>1.32</td><td>10.3</td><td>0.4</td></tr></table>												PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design	69.000	21.977	1.696	13.0	0.004	5.00	0.0	0.600		o	100	Pipe/Conduit		70.000	9.651	0.121	79.7	0.002	5.00	0.0	0.600		o	100	Pipe/Conduit		69.001	13.857	0.173	80.2	0.008	0.00	0.0	0.600		o	100	Pipe/Conduit		71.000	10.187	0.206	49.4	0.002	5.00	0.0	0.600		o	100	Pipe/Conduit		69.002	5.825	0.335	17.4	0.004	0.00	0.0	0.600		o	100	Pipe/Conduit		69.003	3.004	0.200	15.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit		69.004	11.253	0.200	56.3	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit		59.017	6.547	0.336	19.5	0.010	0.00	0.0		0.045	3 \=/	100	1:3 Swale		59.018	45.264	2.912	15.5	0.048	0.00	0.0		0.045	3 \=/	100	1:3 Swale		72.000	10.235	1.020	10.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit		72.001	5.040	0.300	16.8	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit		72.002	10.850	0.370	29.3	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit		72.003	14.857	0.430	34.6	0.002	0.00	0.0	0.600		o	100	Pipe/Conduit		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)	69.000	50.00	5.17	37.704	0.004	0.0	0.0	0.0	2.16	16.9	0.8	70.000	50.00	5.19	36.129	0.002	0.0	0.0	0.0	0.86	6.8	0.4	69.001	50.00	5.46	36.008	0.015	0.0	0.0	0.0	0.86	6.8	2.6	71.000	50.00	5.15	36.041	0.002	0.0	0.0	0.0	1.10	8.6	0.4	69.002	50.00	5.51	35.835	0.020	0.0	0.0	0.0	1.86	14.6	3.7	69.003	50.00	5.53	35.500	0.020	0.0	0.0	0.0	2.00	15.7	3.7	69.004	50.00	5.67	35.300	0.020	0.0	0.0	0.0	1.34	23.7	3.7	59.017	50.00	11.05	35.056	0.275	0.0	0.0	0.0	3.03	8815.9	49.6	59.018	50.00	11.28	34.720	0.323	0.0	0.0	0.0	3.42	10112.9	58.3	72.000	50.00	5.07	36.100	0.000	0.0	0.0	0.0	2.45	19.3	0.0	72.001	50.00	5.11	35.080	0.000	0.0	0.0	0.0	1.89	14.9	0.0	72.002	50.00	5.24	34.780	0.000	0.0	0.0	0.0	1.43	11.2	0.0	72.003	50.00	5.43	34.410	0.002	0.0	0.0	0.0	1.32	10.3	0.4
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design																																																																																																																																																																																																																																																																																																																																															
69.000	21.977	1.696	13.0	0.004	5.00	0.0	0.600		o	100	Pipe/Conduit																																																																																																																																																																																																																																																																																																																																																
70.000	9.651	0.121	79.7	0.002	5.00	0.0	0.600		o	100	Pipe/Conduit																																																																																																																																																																																																																																																																																																																																																
69.001	13.857	0.173	80.2	0.008	0.00	0.0	0.600		o	100	Pipe/Conduit																																																																																																																																																																																																																																																																																																																																																
71.000	10.187	0.206	49.4	0.002	5.00	0.0	0.600		o	100	Pipe/Conduit																																																																																																																																																																																																																																																																																																																																																
69.002	5.825	0.335	17.4	0.004	0.00	0.0	0.600		o	100	Pipe/Conduit																																																																																																																																																																																																																																																																																																																																																
69.003	3.004	0.200	15.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit																																																																																																																																																																																																																																																																																																																																																
69.004	11.253	0.200	56.3	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit																																																																																																																																																																																																																																																																																																																																																
59.017	6.547	0.336	19.5	0.010	0.00	0.0		0.045	3 \=/	100	1:3 Swale																																																																																																																																																																																																																																																																																																																																																
59.018	45.264	2.912	15.5	0.048	0.00	0.0		0.045	3 \=/	100	1:3 Swale																																																																																																																																																																																																																																																																																																																																																
72.000	10.235	1.020	10.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit																																																																																																																																																																																																																																																																																																																																																
72.001	5.040	0.300	16.8	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit																																																																																																																																																																																																																																																																																																																																																
72.002	10.850	0.370	29.3	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit																																																																																																																																																																																																																																																																																																																																																
72.003	14.857	0.430	34.6	0.002	0.00	0.0	0.600		o	100	Pipe/Conduit																																																																																																																																																																																																																																																																																																																																																
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)																																																																																																																																																																																																																																																																																																																																																	
69.000	50.00	5.17	37.704	0.004	0.0	0.0	0.0	2.16	16.9	0.8																																																																																																																																																																																																																																																																																																																																																	
70.000	50.00	5.19	36.129	0.002	0.0	0.0	0.0	0.86	6.8	0.4																																																																																																																																																																																																																																																																																																																																																	
69.001	50.00	5.46	36.008	0.015	0.0	0.0	0.0	0.86	6.8	2.6																																																																																																																																																																																																																																																																																																																																																	
71.000	50.00	5.15	36.041	0.002	0.0	0.0	0.0	1.10	8.6	0.4																																																																																																																																																																																																																																																																																																																																																	
69.002	50.00	5.51	35.835	0.020	0.0	0.0	0.0	1.86	14.6	3.7																																																																																																																																																																																																																																																																																																																																																	
69.003	50.00	5.53	35.500	0.020	0.0	0.0	0.0	2.00	15.7	3.7																																																																																																																																																																																																																																																																																																																																																	
69.004	50.00	5.67	35.300	0.020	0.0	0.0	0.0	1.34	23.7	3.7																																																																																																																																																																																																																																																																																																																																																	
59.017	50.00	11.05	35.056	0.275	0.0	0.0	0.0	3.03	8815.9	49.6																																																																																																																																																																																																																																																																																																																																																	
59.018	50.00	11.28	34.720	0.323	0.0	0.0	0.0	3.42	10112.9	58.3																																																																																																																																																																																																																																																																																																																																																	
72.000	50.00	5.07	36.100	0.000	0.0	0.0	0.0	2.45	19.3	0.0																																																																																																																																																																																																																																																																																																																																																	
72.001	50.00	5.11	35.080	0.000	0.0	0.0	0.0	1.89	14.9	0.0																																																																																																																																																																																																																																																																																																																																																	
72.002	50.00	5.24	34.780	0.000	0.0	0.0	0.0	1.43	11.2	0.0																																																																																																																																																																																																																																																																																																																																																	
72.003	50.00	5.43	34.410	0.002	0.0	0.0	0.0	1.32	10.3	0.4																																																																																																																																																																																																																																																																																																																																																	
©1982-2020 Innovyze																																																																																																																																																																																																																																																																																																																																																											

Paul Basham Associates										Page 19		
Lancaster Court Fareham Hampshire, PO15 5TU					189.5005 ANGMERING P2 NW 50% AEP +40% CC							
Date 08/10/2025 File 251007_NW PHASE 2.MDX					Designed by LEC Checked by COH							
Innovyze										Network 2020.1.3		
STORM SEWER DESIGN by the Modified Rational Method												
Network Design Table for Surface Network 3												
PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
73.000	5.109	0.100	51.1	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
73.001	15.898	0.220	72.3	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
72.004	13.868	1.080	12.8	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
74.000	12.826	0.487	26.3	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
72.005	8.001	0.270	29.6	0.008	0.00	0.0	0.600		o	150	Pipe/Conduit	
75.000	8.459	0.106	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
72.006	4.631	0.320	14.5	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
76.000	6.342	0.061	104.6	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
72.007	11.190	0.410	27.3	0.000	0.00	0.0	0.600		o	150	Pipe/Conduit	
59.019	1.675	0.108	15.5	0.000	0.00	0.0		0.045	3 \=/	100	1:3 Swale	
59.020	14.124	0.706	20.0	0.037	0.00	0.0	0.600		o	300	Pipe/Conduit	
59.021	14.642	0.294	49.8	0.018	0.00	0.0	0.600		o	300	Pipe/Conduit	
59.022	33.432	1.868	17.9	0.016	0.00	0.0		0.045	3 \=/	300	1:3 Swale	
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)		
73.000	50.00	5.08	34.300	0.000	0.0	0.0	0.0	1.08	8.5	0.0		
73.001	50.00	5.37	34.200	0.000	0.0	0.0	0.0	0.91	7.1	0.0		
72.004	50.00	5.53	33.980	0.002	0.0	0.0	0.0	2.17	17.0	0.4		
74.000	50.00	5.14	33.387	0.000	0.0	0.0	0.0	1.51	11.9	0.0		
72.005	50.00	5.61	32.900	0.010	0.0	0.0	0.0	1.86	32.8	1.9		
75.000	50.00	5.16	32.736	0.000	0.0	0.0	0.0	0.86	6.8	0.0		
72.006	50.00	5.64	32.630	0.010	0.0	0.0	0.0	2.66	47.0	1.9		
76.000	50.00	5.14	32.371	0.000	0.0	0.0	0.0	0.75	5.9	0.0		
72.007	50.00	5.73	32.310	0.010	0.0	0.0	0.0	1.93	34.2	1.9		
59.019	50.00	11.28	31.808	0.333	0.0	0.0	0.0	3.44	10343.0	60.1		
59.020	50.00	11.35	31.700	0.370	0.0	0.0	0.0	3.53	249.6	66.8		
59.021	50.00	11.46	30.994	0.388	0.0	0.0	0.0	2.23	157.8	70.1		
59.022	50.00	11.63	30.700	0.404	0.0	0.0	0.0	3.23	10028.1	73.0		
©1982-2020 Innovyze												

Paul Basham Associates

Page 20

Lancaster Court
Fareham
Hampshire, PO15 5TU

189.5005 ANGMERING
P2 NW
50% AEP +40% CC

Date 08/10/2025
File 251007_NW PHASE 2.MDX

Designed by LEC
Checked by COH

Innovyze

Network 2020.1.3

STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 3

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
77.000	6.640	0.443	15.0	0.002	5.00	0.0	0.600		o	100	Pipe/Conduit	
77.001	2.606	0.174	15.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
77.002	10.428	0.695	15.0	0.004	0.00	0.0	0.600		o	225	Pipe/Conduit	
77.003	12.295	0.307	40.0	0.015	0.00	0.0	0.600		o	225	Pipe/Conduit	
78.000	7.508	0.094	80.0	0.004	5.00	0.0	0.600		o	100	Pipe/Conduit	
78.001	4.823	0.060	80.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
79.000	4.059	0.051	80.0	0.000	5.00	0.0	0.600		o	100	Pipe/Conduit	
79.001	3.499	0.044	80.0	0.007	0.00	0.0	0.600		o	100	Pipe/Conduit	
79.002	2.635	0.033	80.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
78.002	11.153	0.139	80.0	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
77.004	5.367	0.215	25.0	0.000	0.00	0.0	0.600		o	225	Pipe/Conduit	
77.005	5.834	0.233	25.0	0.000	0.00	0.0	0.600		o	225	Pipe/Conduit	
77.006	7.451	0.298	25.0	0.000	0.00	0.0	0.600		o	225	Pipe/Conduit	
77.007	10.290	0.412	25.0	0.000	0.00	0.0	0.600		o	225	Pipe/Conduit	
59.023	1.466	0.082	17.9	0.000	0.00	0.0		0.045	3 \=/	300	1:3 Swale	

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	I.Area (ha)	Base Flow (l/s)	Foul Flow (l/s)	Add Flow (l/s)	Vel (m/s)	Cap (l/s)	Flow (l/s)
77.000	50.00	5.06	31.802	0.002	0.0	0.0	0.0	2.00	15.7	0.4
77.001	50.00	5.08	31.359	0.002	0.0	0.0	0.0	2.00	15.7	0.4
77.002	50.00	5.13	31.060	0.006	0.0	0.0	0.0	3.40	135.0	1.1
77.003	50.00	5.23	30.365	0.021	0.0	0.0	0.0	2.07	82.5	3.9
78.000	50.00	5.15	30.414	0.004	0.0	0.0	0.0	0.86	6.8	0.8
78.001	50.00	5.24	30.320	0.004	0.0	0.0	0.0	0.86	6.8	0.8
79.000	50.00	5.08	30.387	0.000	0.0	0.0	0.0	0.86	6.8	0.0
79.001	50.00	5.15	30.336	0.007	0.0	0.0	0.0	0.86	6.8	1.3
79.002	50.00	5.20	30.292	0.007	0.0	0.0	0.0	0.86	6.8	1.3
78.002	50.00	5.45	30.259	0.012	0.0	0.0	0.0	0.86	6.8	2.1
77.004	50.00	5.49	30.058	0.033	0.0	0.0	0.0	2.63	104.5	6.0
77.005	50.00	5.53	29.843	0.033	0.0	0.0	0.0	2.63	104.5	6.0
77.006	50.00	5.57	29.610	0.033	0.0	0.0	0.0	2.63	104.5	6.0
77.007	50.00	5.64	29.312	0.033	0.0	0.0	0.0	2.63	104.5	6.0
59.023	50.00	11.64	28.832	0.437	0.0	0.0	0.0	3.27	10487.6	78.9

©1982-2020 Innovyze

Paul Basham Associates

Lancaster Court
Fareham
Hampshire, PO15 5TU

Date 08/10/2025
File 251007_NW PHASE 2.MDX

189.5005 ANGMERING
P2 NW
50% AEP +40% CC

Designed by LEC
Checked by COH

Page 21



Innovyze

Network 2020.1.3

STORM SEWER DESIGN by the Modified Rational Method

Network Design Table for Surface Network 3

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	n	HYD SECT	DIA (mm)	Section Type	Auto Design
59.024	10.644	0.712	14.9	0.000	0.00	0.0	0.600		o	300	Pipe/Conduit	
59.025	11.074	0.459	24.1	0.000	0.00	0.0	0.600		o	450	Pipe/Conduit	
59.026	10.802	0.117	92.6	0.000	0.00	0.0	0.600		o	675	Pipe/Conduit	
80.000	6.973	0.170	41.1	0.004	5.00	0.0	0.600		o	100	Pipe/Conduit	
80.001	2.894	0.112	25.7	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
80.002	10.531	0.379	27.8	0.016	0.00	0.0	0.600		o	100	Pipe/Conduit	
80.003	9.421	0.776	12.1	0.000	0.00	0.0	0.600		o	100	Pipe/Conduit	
80.004	12.645	0.672	18.8	0.033	0.00	0.0	0.600		o	150	Pipe/Conduit	
59.027	3.863	0.042	92.6	0.000	0.00	0.0	0.600		o	675	Pipe/Conduit	
59.028	9.923	0.400	24.8	0.000	0.00	0.0		0.045	3 \=/	675	1:3 Swale	
59.029	17.074	0.700	24.4	0.000	0.00	0.0	0.600		o	675	Pipe/Conduit	
59.030	3.142	0.019	162.6	0.000	0.00	0.0	0.600		o	675	Pipe/Conduit	
1.031	13.121	0.181	72.5	0.000	0.00	0.0		0.045	3 \=/	675	1:3 Swale	
1.032	29.898	2.400	12.5	0.000	0.00	0.0	0.600		o	450	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)
59.024	50.00	11.68	28.750	0.437	0.0	0.0	0.0	4.09	288.9	78.9
59.025	50.00	11.73	27.688	0.437	0.0	0.0	0.0	4.15	660.2	78.9
59.026	50.00	11.79	27.004	0.437	0.0	0.0	0.0	2.72	974.8	78.9
80.000	50.00	5.10	29.572	0.004	0.0	0.0	0.0	1.21	9.5	0.8
80.001	50.00	5.13	29.402	0.004	0.0	0.0	0.0	1.53	12.0	0.8
80.002	50.00	5.25	29.290	0.020	0.0	0.0	0.0	1.47	11.5	3.6
80.003	50.00	5.32	28.911	0.020	0.0	0.0	0.0	2.23	17.5	3.6
80.004	50.00	5.41	28.135	0.053	0.0	0.0	0.0	2.33	41.2	9.5
59.027	50.00	11.82	26.887	0.490	0.0	0.0	0.0	2.72	974.8	88.5
59.028	50.00	11.87	26.800	0.490	0.0	0.0	0.0	2.88	10287.4	88.5
59.029	50.00	11.93	26.400	0.490	0.0	0.0	0.0	5.32	1904.0	88.5
59.030	50.00	11.95	25.700	0.490	0.0	0.0	0.0	2.05	734.5	88.5
1.031	50.00	12.08	25.681	2.166	0.0	0.0	0.0	1.68	6018.0	391.1
1.032	50.00	12.17	25.500	2.166	0.0	0.0	0.0	5.78	919.9	391.1

Free Flowing Outfall Details for Surface Network 3

Outfall Pipe Number	Outfall C. Name	Level (m)	I. Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.032	S148	25.365	23.100	0.000	0	0

©1982-2020 Innovyze

Paul Basham Associates		Page 22
Lancaster Court Fareham Hampshire, PO15 5TU	189.5005 ANGMERING P2 NW 50% AEP +40% CC	
Date 08/10/2025 File 251007_NW PHASE 2.MDX	Designed by LEC Checked by COH	
Innovyze Network 2020.1.3		

Simulation Criteria for Surface Network 3

Volumetric Runoff Coeff	1.000	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 Storage Structures	0
Number of Online Controls	0	Number of Time/Area Diagrams	0
Number of Offline Controls	0	Number of Real Time Controls	0

Synthetic Rainfall Details

Rainfall Model	FEH
Return Period (years)	100
FEH Rainfall Version	2013
Site Location	GB 507546 105033 TQ 07546 05033
Data Type	Point
Summer Storms	Yes
Winter Storms	Yes
Cv (Summer)	1.000
Cv (Winter)	0.840
Storm Duration (mins)	30

©1982-2020 Innovyze

Paul Basham Associates		Page 23						
Lancaster Court Fareham Hampshire, PO15 5TU	189.5005 ANGMERING P2 NW 50% AEP +40% CC							
Date 08/10/2025 File 251007_NW PHASE 2.MDX	Designed by LEC Checked by COH							
Innovyze	Network 2020.1.3							
Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3								
Simulation Criteria								
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 Storage Structures 0								
Number of Online Controls 0 Number of Time/Area Diagrams 0								
Number of Offline Controls 0 Number of Real Time Controls 0								
Synthetic Rainfall Details								
Rainfall Model		FEH						
FEH Rainfall Version		2013						
Site Location GB 507546 105033 TQ 07546 05033								
Data Type		Point						
Cv (Summer)		0.850						
Cv (Winter)		0.900						
Margin for Flood Risk Warning (mm)		200.0						
Analysis Timestep 2.5 Second Increment (Extended)								
DTS Status		ON						
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)		2						
Climate Change (%)		40						
Water								
PN	US/MH	Return	Climate	First (X)	First (Y)	First (Z)	Overflow	Level
	Name	Storm	Period	Change	Surcharge	Flood	Overflow	Act. (m)
1.000	PS1292	15 Summer	2	+40%				39.121
1.001	PS1291	15 Summer	2	+40%				38.964
1.002	PS1290	15 Summer	2	+40%				38.842
2.000	PS1297	15 Summer	2	+40%				39.042
2.001	PS1296	15 Summer	2	+40%				38.798
1.003	PS1289	15 Summer	2	+40%				38.644
3.000	PS1283	15 Summer	2	+40%				38.500
1.004	PS1282	15 Summer	2	+40%				38.233
1.005	S75	15 Summer	2	+40%				37.447
4.000	PS1193	15 Summer	2	+40%				37.811
4.001	PS1192	15 Summer	2	+40%				37.690
1.006	S76	15 Summer	2	+40%				36.820
5.000	PS1186	15 Summer	2	+40%				37.763
5.001	PS1185	15 Summer	2	+40%				37.616
6.000	PS1181	15 Summer	2	+40%				37.675
5.002	PS1180	15 Summer	2	+40%				37.520
5.003	PS1179	15 Summer	2	+40%				37.450
©1982-2020 Innovyze								

Paul Basham Associates		Page 24
Lancaster Court Fareham Hampshire, PO15 5TU	189.5005 ANGMERING P2 NW 50% AEP +40% CC	
Date 08/10/2025 File 251007_NW PHASE 2.MDX	Designed by LEC Checked by COH	
Innovyze	Network 2020.1.3	

Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3

PN	US/MH Name	Surcharged Flooded		Flow / Overflow Cap. (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m³)					
1.000	PS1292	-0.079	0.000	0.10		0.6	OK	
1.001	PS1291	-0.106	0.000	0.19		3.3	OK	
1.002	PS1290	-0.112	0.000	0.14		3.3	OK	
2.000	PS1297	-0.100	0.000	0.00		0.0	OK	
2.001	PS1296	-0.100	0.000	0.00		0.0	OK	
1.003	PS1289	-0.116	0.000	0.11		3.3	OK	
3.000	PS1283	-0.100	0.000	0.00		0.0	OK	
1.004	PS1282	-0.127	0.000	0.06		3.3	OK	
1.005	S75	-0.090	0.000	0.33		9.6	OK	
4.000	PS1193	-0.100	0.000	0.00		0.0	OK	
4.001	PS1192	-0.100	0.000	0.00		0.0	OK	
1.006	S76	-0.300	0.000	0.09		25.4	OK	
5.000	PS1186	-0.100	0.000	0.00		0.0	OK	
5.001	PS1185	-0.100	0.000	0.00		0.0	OK	
6.000	PS1181	-0.100	0.000	0.00		0.0	OK	
5.002	PS1180	-0.100	0.000	0.00		0.0	OK	
5.003	PS1179	-0.100	0.000	0.00		0.0	OK	

Paul Basham Associates								Page 25	
Lancaster Court Fareham Hampshire, PO15 5TU				189.5005 ANGMERING P2 NW 50% AEP +40% CC					
Date 08/10/2025 File 251007_NW PHASE 2.MDX				Designed by LEC Checked by COH					
Innovyze				Network 2020.1.3					
Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3									
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
7.000	PS1176	15 Summer	2	+40%					37.565
7.001	PS1174	15 Summer	2	+40%					37.450
8.000	PS1172	15 Summer	2	+40%					37.392
8.001	PS1171	15 Summer	2	+40%					37.183
8.002	PS1166	15 Summer	2	+40%					37.050
7.002	PS2930	15 Summer	2	+40%					36.606
1.007	S77	15 Summer	2	+40%					36.190
9.000	PS1223	15 Summer	2	+40%					37.118
9.001	PS1222	15 Summer	2	+40%					36.970
1.008	S78	15 Winter	2	+40%					36.083
10.000	PS1332	15 Summer	2	+40%					38.928
10.001	PS1331	15 Summer	2	+40%					38.779
11.000	PS1322	15 Summer	2	+40%					38.880
11.001	PS1320	15 Summer	2	+40%					38.761
10.002	S79	15 Summer	2	+40%					37.664
12.000	PS1129	15 Summer	2	+40%					37.194
12.001	PS1128	15 Summer	2	+40%					37.050
13.000	PS1125	15 Summer	2	+40%					37.462
13.001	PS1124	15 Summer	2	+40%					37.000
12.002	PS2888	15 Summer	2	+40%					36.850
1.009	S81	15 Winter	2	+40%					36.029
1.010	S82	15 Winter	2	+40%					35.916
1.011	S83	15 Winter	2	+40%					35.857
14.000	PS1273	15 Summer	2	+40%					38.134
14.001	PS1271	15 Summer	2	+40%					37.986
15.000	PS1267	15 Summer	2	+40%					38.071
16.000	PS1265	15 Summer	2	+40%					38.048
15.001	PS1264	15 Summer	2	+40%					37.937
14.002	PS1263	15 Summer	2	+40%					37.801
17.000	PS1278	15 Summer	2	+40%					38.216
14.003	PS1277	15 Summer	2	+40%					37.415
1.012	S84	15 Winter	2	+40%					35.794
1.013	S85	15 Winter	2	+40%					35.726
1.014	S86	15 Winter	2	+40%					35.527
18.000	PS1487	15 Summer	2	+40%					36.548
18.001	PS1486	15 Summer	2	+40%					36.505
18.002	PS1485	15 Summer	2	+40%					36.330
19.000	PS1483	15 Summer	2	+40%					36.299
18.003	PS1482	15 Summer	2	+40%					36.191
20.000	PS2743	15 Summer	2	+40%					36.839
20.001	PS2744	15 Summer	2	+40%					36.735
20.002	PS2745	15 Summer	2	+40%					36.600
20.003	PS1082	15 Summer	2	+40%					36.090
1.015	S89	15 Winter	2	+40%					34.545
21.000	PS2785	15 Summer	2	+40%					35.332
21.001	PS1496	15 Summer	2	+40%					35.174
21.002	S90	15 Summer	2	+40%					34.195
1.016	S92	15 Winter	2	+40%					33.421
22.000	PS1008	15 Summer	2	+40%					37.098
©1982-2020 Innovyze									

Paul Basham Associates								Page 26	
Lancaster Court Fareham Hampshire, PO15 5TU				189.5005 ANGMERING P2 NW 50% AEP +40% CC					
Date 08/10/2025 File 251007_NW PHASE 2.MDX				Designed by LEC Checked by COH					
Innovyze				Network 2020.1.3					
Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3									

Paul Basham Associates		Page 27
Lancaster Court Fareham Hampshire, PO15 5TU	189.5005 ANGMERING P2 NW 50% AEP +40% CC	
Date 08/10/2025 File 251007_NW PHASE 2.MDX	Designed by LEC Checked by COH	
Innovyze	Network 2020.1.3	

Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3

PN	US/MH Name	Surcharged Flooded		Flow / Overflow		Half Drain	Pipe	Status	Level Exceeded
		Depth (m)	Volume (m ³)	Cap.	(l/s)	Time (mins)	Flow (l/s)		
22.000	PS1008	-0.100	0.000	0.00			0.0	OK	

Paul Basham Associates								Page 28	
Lancaster Court Fareham Hampshire, PO15 5TU				189.5005 ANGMERING P2 NW 50% AEP +40% CC					
Date 08/10/2025 File 251007_NW PHASE 2.MDX				Designed by LEC Checked by COH					
Innovyze				Network 2020.1.3					
Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3									
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
22.001	PS2746	15 Summer	2	+40%					36.586
23.000	PS1025	15 Summer	2	+40%					36.893
22.002	PS1019	15 Summer	2	+40%					36.343
22.003	S94	15 Summer	2	+40%					35.366
24.000	PS999	15 Summer	2	+40%					34.318
24.001	PS998	15 Summer	2	+40%					34.185
25.000	PS994	15 Summer	2	+40%					34.173
24.002	S93	15 Summer	2	+40%					34.027
22.004	S95	15 Summer	2	+40%					33.838
1.017	S97	15 Winter	2	+40%					33.089
26.000	PS962	15 Summer	2	+40%					34.491
26.001	PS961	15 Summer	2	+40%					34.098
1.018	S99	15 Winter	2	+40%					32.515
27.000	PS1066	15 Summer	2	+40%					33.471
27.001	PS1060	15 Summer	2	+40%					32.377
28.000	PS2975	15 Summer	2	+40%					33.329
27.002	PS1059	15 Summer	2	+40%					32.204
1.019	S100	15 Winter	2	+40%					31.846
29.000	PS780	15 Summer	2	+40%					32.284
30.000	PS776	15 Summer	2	+40%					32.290
29.001	PS779	15 Summer	2	+40%					32.169
31.000	PS2886	15 Summer	2	+40%					32.075
31.001	PS773	15 Summer	2	+40%					31.932
29.002	S101	15 Winter	2	+40%					30.760
32.000	PS794	15 Summer	2	+40%					31.739
32.001	PS2792	15 Winter	2	+40%					31.659
32.002	PS2793	15 Summer	2	+40%					31.664
32.003	PS793	15 Summer	2	+40%					31.516
33.000	PS804	15 Summer	2	+40%					31.862
33.001	PS803	15 Summer	2	+40%					31.773
34.000	PS2796	15 Summer	2	+40%					32.018
34.001	PS799	15 Summer	2	+40%					31.929
33.002	PS2797	15 Summer	2	+40%					31.713
32.004	PS792	15 Summer	2	+40%					31.281
35.000	PS1395	15 Summer	2	+40%					31.955
29.003	S102	15 Winter	2	+40%					30.737
1.020	S103	15 Winter	2	+40%					30.716
36.000	PS815	15 Winter	2	+40%					31.868
36.001	PS2801	15 Winter	2	+40%					31.872
36.002	PS823	15 Summer	2	+40%					31.874
37.000	PS831	15 Summer	2	+40%					32.125
36.003	PS2803	15 Summer	2	+40%					31.686
36.004	PS813	15 Summer	2	+40%					31.026
38.000	PS1054	15 Summer	2	+40%					32.370
38.001	PS1052	15 Summer	2	+40%					31.658
1.021	S104	15 Winter	2	+40%					30.634
39.000	PS2992	15 Summer	2	+40%					31.456
39.001	PS1051	15 Summer	2	+40%					31.340
1.022	S105	15 Winter	2	+40%					30.402
©1982-2020 Innovyze									

Paul Basham Associates		Page 30
Lancaster Court Fareham Hampshire, PO15 5TU	189.5005 ANGMERING P2 NW 50% AEP +40% CC	
Date 08/10/2025 File 251007_NW PHASE 2.MDX	Designed by LEC Checked by COH	
Innovyze	Network 2020.1.3	

Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3

PN	US/MH Name	Surcharged Flooded		Flow / Overflow		Half Drain	Pipe	Status	Level Exceeded
		Depth (m)	Volume (m ³)	Cap.	(l/s)	Time (mins)	Flow (l/s)		
1.022	S105	-0.295	0.000	0.40			197.9	OK	

Paul Basham Associates								Page 31	
Lancaster Court Fareham Hampshire, PO15 5TU				189.5005 ANGMERING P2 NW 50% AEP +40% CC					
Date 08/10/2025 File 251007_NW PHASE 2.MDX				Designed by LEC Checked by COH					
Innovyze				Network 2020.1.3					
Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3									
PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
40.000	PS812	15 Summer	2	+40%					31.325
41.000	PS2993	15 Summer	2	+40%					31.018
40.001	PS827	15 Summer	2	+40%					30.938
1.023	S106	15 Winter	2	+40%					29.939
42.000	PS929	15 Summer	2	+40%					30.369
43.000	PS810	15 Summer	2	+40%					30.449
1.024	S107	15 Winter	2	+40%					28.904
44.000	PS875	15 Summer	2	+40%					28.440
44.001	PS874	15 Summer	2	+40%					28.264
44.002	PS868	15 Summer	2	+40%					28.117
1.025	S108	15 Winter	2	+40%					28.049
45.000	PS947	15 Summer	2	+40%					33.010
45.001	PS943	15 Summer	2	+40%					32.805
45.002	S109	15 Summer	2	+40%					32.423
46.000	PS958	15 Summer	2	+40%					32.847
46.001	PS957	15 Summer	2	+40%					32.637
46.002	S2707	15 Summer	2	+40%					31.788
45.003	S110	15 Summer	2	+40%					31.150
47.000	PS936	15 Summer	2	+40%					31.830
47.001	PS934	15 Summer	2	+40%					31.474
45.004	S111	15 Summer	2	+40%					30.205
48.000	PS932	15 Summer	2	+40%					30.457
45.005	S112	15 Summer	2	+40%					29.455
49.000	PS922	15 Summer	2	+40%					30.156
49.001	PS921	15 Summer	2	+40%					29.972
50.000	PS927	15 Summer	2	+40%					30.486
51.000	PS925	15 Summer	2	+40%					30.954
50.001	PS924	15 Summer	2	+40%					30.320
49.002	S113	15 Summer	2	+40%					29.664
45.006	S114	15 Winter	2	+40%					28.317
45.007	S115	15 Winter	2	+40%					28.256
52.000	PS907	15 Summer	2	+40%					29.078
52.001	PS906	15 Summer	2	+40%					28.540
53.000	PS901	15 Summer	2	+40%					28.488
53.001	PS900	15 Summer	2	+40%					28.474
52.002	PS899	15 Summer	2	+40%					28.363
45.008	S2708	15 Winter	2	+40%					28.221
45.009	S116	15 Winter	2	+40%					28.146
45.010	PS2895	30 Summer	2	+40%					28.074
54.000	PS887	15 Summer	2	+40%					28.430
54.001	PS886	15 Summer	2	+40%					28.304
54.002	PS881	15 Summer	2	+40%					28.133
55.000	PS880	15 Summer	2	+40%					28.141
55.001	PS879	15 Summer	2	+40%					28.065
54.003	PS878	15 Summer	2	+40%					27.961
45.011	PS2898	30 Winter	2	+40%					27.927
1.026	PS3026	30 Winter	2	+40%					27.869
1.027	PS2899	30 Winter	2	+40%					27.840
1.028	PS2900	30 Winter	2	+40%					27.721
©1982-2020 Innovyze									

Paul Basham Associates								Page 32	
Lancaster Court Fareham Hampshire, PO15 5TU				189.5005 ANGMERING P2 NW 50% AEP +40% CC					
Date 08/10/2025 File 251007_NW PHASE 2.MDX				Designed by LEC Checked by COH					
Innovyze				Network 2020.1.3					
Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3									

Paul Basham Associates		Page 33
Lancaster Court Fareham Hampshire, PO15 5TU	189.5005 ANGMERING P2 NW 50% AEP +40% CC	
Date 08/10/2025 File 251007_NW PHASE 2.MDX	Designed by LEC Checked by COH	
Innovyze	Network 2020.1.3	

Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3

PN	US/MH Name	Surcharged	Flooded	Half Drain		Pipe	Status	Level Exceeded
		Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Time (mins)		
1.028	PS2900	-0.666	0.000	0.06			221.3	OK

Paul Basham Associates

Lancaster Court
Fareham
Hampshire, PO15 5TU

Date 08/10/2025
File 251007_NW PHASE 2.MDX

189.5005 ANGMERING
P2 NW
50% AEP +40% CC

Designed by LEC
Checked by COH

Innovyze

Network 2020.1.3

Page 34



Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
56.000	PS842	15 Summer	2	+40%					28.765
56.001	PS841	15 Summer	2	+40%					28.306
57.000	PS702	15 Summer	2	+40%					28.410
57.001	PS2763	15 Summer	2	+40%					28.216
58.000	PS2760	15 Summer	2	+40%					28.673
58.001	PS2761	15 Summer	2	+40%					28.478
58.002	PS855	15 Summer	2	+40%					28.336
56.002	PS837	15 Summer	2	+40%					27.699
1.029	PS2896	30 Winter	2	+40%					27.524
1.030	S141	30 Winter	2	+40%	2/15 Summer				26.290
59.000	PS1303	15 Summer	2	+40%					39.201
59.001	PS1302	15 Summer	2	+40%					39.039
60.000	PS1310	15 Summer	2	+40%					39.181
59.002	PS1301	15 Summer	2	+40%					38.879
61.000	PS1315	15 Summer	2	+40%					38.876
59.003	PS1300	15 Summer	2	+40%					38.749
62.000	S2704	15 Summer	2	+40%					38.793
59.004	PS3007	15 Summer	2	+40%					38.721
59.005	S121	15 Winter	2	+40%					38.603
63.000	PS1339	15 Summer	2	+40%					39.100
63.001	PS2714	15 Summer	2	+40%					38.871
63.002	PS1338	15 Summer	2	+40%					38.694
64.000	PS1347	15 Summer	2	+40%					39.209
63.003	PS1337	15 Summer	2	+40%					38.480
59.006	PS2924	30 Winter	2	+40%					38.339
59.007	PS3009	30 Winter	2	+40%					38.220
65.000	PS1357	15 Summer	2	+40%					39.391
65.001	PS1356	15 Summer	2	+40%					39.155
66.000	PS1362	15 Summer	2	+40%					39.363
65.002	PS1355	15 Summer	2	+40%					38.985
65.003	PS1354	15 Summer	2	+40%					38.891
59.008	PS3008	60 Summer	2	+40%					38.093
59.009	S123	120 Summer	2	+40%					37.991
59.010	S124	120 Summer	2	+40%					37.907
67.000	PS1350	15 Summer	2	+40%					37.925
59.011	S125	120 Summer	2	+40%					37.588
59.012	PS2889	120 Summer	2	+40%					36.769
68.000	PS1383	15 Summer	2	+40%					38.081
68.001	PS1382	15 Summer	2	+40%					37.843
68.002	PS2890	15 Summer	2	+40%					37.750
59.013	S128	120 Summer	2	+40%					36.552
59.014	S129	120 Winter	2	+40%					36.352
59.015	PS2891	120 Winter	2	+40%					36.170
59.016	S130	120 Winter	2	+40%					35.403
69.000	PS1468	15 Summer	2	+40%					37.721
70.000	PS1457	15 Summer	2	+40%					36.150
69.001	PS1454	15 Summer	2	+40%					36.061
71.000	PS1461	15 Summer	2	+40%					36.060
69.002	PS1453	15 Summer	2	+40%					35.878

©1982-2020 Innovyze

Paul Basham Associates							Page 35		
Lancaster Court Fareham Hampshire, PO15 5TU				189.5005 ANGMERING P2 NW 50% AEP +40% CC					
Date 08/10/2025 File 251007_NW PHASE 2.MDX				Designed by LEC Checked by COH					
Innovyze				Network 2020.1.3					
Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3									
PN	US/MH Name	Depth (m)	Surcharged Volume (m³)	Flooded Flow / Cap.	Overflow (l/s)	Half Drain Time (mins)	Pipe Flow (l/s)	Status	Level Exceeded
56.000	PS842	-0.085	0.000	0.05			0.6	OK	
56.001	PS841	-0.064	0.000	0.28			3.2	OK	
57.000	PS702	-0.070	0.000	0.20			1.7	OK	
57.001	PS2763	-0.054	0.000	0.43			4.3	OK	
58.000	PS2760	-0.100	0.000	0.00			0.0	OK	
58.001	PS2761	-0.100	0.000	0.00			0.0	OK	
58.002	PS855	-0.074	0.000	0.15			2.0	OK	
56.002	PS837	-0.051	0.000	0.75			13.0	OK	
1.029	PS2896	-0.276	0.000	0.32			225.7	OK	
1.030	S141	0.082	0.000	1.34			226.7	SURCHARGED	
59.000	PS1303	-0.080	0.000	0.09			0.6	OK	
59.001	PS1302	-0.080	0.000	0.09			0.6	OK	
60.000	PS1310	-0.066	0.000	0.25			1.8	OK	
59.002	PS1301	-0.057	0.000	0.38			2.4	OK	
61.000	PS1315	-0.097	0.000	0.27			4.9	OK	
59.003	PS1300	-0.155	0.000	0.17			7.2	OK	
62.000	S2704	-0.807	0.000	0.00			8.7	OK	
59.004	PS3007	-0.834	0.000	0.02			14.9	OK	
59.005	S121	-0.872	0.000	0.01			18.8	OK	
63.000	PS1339	-0.100	0.000	0.00			0.0	OK	
63.001	PS2714	-0.100	0.000	0.00			0.0	OK	
63.002	PS1338	-0.046	0.000	0.56			3.7	OK	
64.000	PS1347	-0.100	0.000	0.00			0.0	OK	
63.003	PS1337	-0.100	0.000	0.24			4.6	OK	
59.006	PS2924	-0.911	0.000	0.00			12.8	OK	
59.007	PS3009	-0.878	0.000	0.01			15.6	OK	
65.000	PS1357	-0.100	0.000	0.00			0.0	OK	
65.001	PS1356	-0.055	0.000	0.42			2.7	OK	
66.000	PS1362	-0.100	0.000	0.00			0.0	OK	
65.002	PS1355	-0.055	0.000	0.42			2.7	OK	
65.003	PS1354	-0.069	0.000	0.21			2.7	OK	
59.008	PS3008	-0.909	0.000	0.00			12.9	OK	
59.009	S123	-0.134	0.000	0.34			12.6	OK	
59.010	S124	-0.133	0.000	0.35			14.3	OK	
67.000	PS1350	-0.100	0.000	0.00			0.0	OK	
59.011	S125	-0.157	0.000	0.20			15.1	OK	
59.012	PS2889	-0.806	0.000	0.00			14.8	OK	
68.000	PS1383	-0.150	0.000	0.00			0.0	OK	
68.001	PS1382	-0.150	0.000	0.00			0.0	OK	
68.002	PS2890	-0.258	0.000	0.00			0.0	OK	
59.013	S128	-0.298	0.000	0.10			14.2	OK	
59.014	S129	-0.889	0.000	0.00			13.5	OK	
59.015	PS2891	-0.913	0.000	0.00			14.2	OK	
59.016	S130	-0.883	0.000	0.00			14.2	OK	
69.000	PS1468	-0.083	0.000	0.07			1.1	OK	
70.000	PS1457	-0.079	0.000	0.10			0.6	OK	
69.001	PS1454	-0.047	0.000	0.54			3.5	OK	
71.000	PS1461	-0.082	0.000	0.07			0.6	OK	
©1982-2020 Innovyze									

189.5005	ANGMERING
----------	-----------

P2 NW

50% AEP +40% CC

Designed by LEC

Checked by COH



Network 2020.1.3

Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3

PN	US/MH Name	Surcharged	Flooded			Half Drain	Pipe	Status	Level Exceeded
		Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Time (mins)	Flow (l/s)		
69.002	PS1453	-0.057	0.000	0.37			4.8	OK	

Paul Basham Associates								Page 37	
Lancaster Court Fareham Hampshire, PO15 5TU				189.5005 ANGMERING P2 NW 50% AEP +40% CC					
Date 08/10/2025 File 251007_NW PHASE 2.MDX				Designed by LEC Checked by COH					
Innovyze				Network 2020.1.3					
Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3									
	US/MH		Return	Climate	First (X)	First (Y)	First (Z)	Overflow	Water
PN	Name	Storm	Period	Change	Surcharge	Flood	Overflow	Act.	Level
									(m)
69.003	PS1452	15 Summer	2	+40%					35.544
69.004	PS1466	15 Summer	2	+40%					35.349
59.017	PS3010	120 Winter	2	+40%					35.131
59.018	S131	120 Winter	2	+40%					34.793
72.000	PS1436	15 Summer	2	+40%					36.100
72.001	PS1435	15 Summer	2	+40%					35.080
72.002	PS1434	15 Summer	2	+40%					34.780
72.003	PS1433	15 Summer	2	+40%					34.425
73.000	PS1439	15 Summer	2	+40%					34.300
73.001	PS1442	15 Summer	2	+40%					34.200
72.004	PS1432	15 Summer	2	+40%					33.992
74.000	PS1428	15 Summer	2	+40%					33.387
72.005	PS1427	15 Summer	2	+40%					32.928
75.000	PS1422	15 Summer	2	+40%					32.736
72.006	PS1421	15 Summer	2	+40%					32.655
76.000	PS1419	15 Summer	2	+40%					32.371
72.007	PS1418	15 Summer	2	+40%					32.337
59.019	PS3028	120 Winter	2	+40%					31.882
59.020	S132	30 Winter	2	+40%					31.757
59.021	S133	30 Winter	2	+40%					31.068
59.022	S134	30 Winter	2	+40%					30.760
77.000	PS732	15 Summer	2	+40%					31.815
77.001	PS2776	15 Summer	2	+40%					31.373
77.002	PS2777	15 Summer	2	+40%					31.074
77.003	PS731	15 Summer	2	+40%					30.404
78.000	PS2772	15 Summer	2	+40%					30.442
78.001	PS2773	15 Summer	2	+40%					30.349
79.000	PS725	15 Summer	2	+40%					30.387
79.001	PS2770	15 Summer	2	+40%					30.373
79.002	PS724	15 Summer	2	+40%					30.332
78.002	PS2782	15 Summer	2	+40%					30.306
77.004	PS723	15 Summer	2	+40%					30.109
77.005	PS719	15 Summer	2	+40%					29.893
77.006	PS710	15 Summer	2	+40%					29.657
77.007	S135	15 Summer	2	+40%					29.357
59.023	PS3027	60 Summer	2	+40%					28.897
59.024	S136	60 Winter	2	+40%					28.812
59.025	PS2894	60 Winter	2	+40%					27.754
59.026	PS3001	60 Winter	2	+40%					27.093
80.000	PS2765	15 Summer	2	+40%					29.596
80.001	PS2766	15 Summer	2	+40%					29.426
80.002	PS705	15 Summer	2	+40%					29.336
80.003	PS704	15 Summer	2	+40%					28.947
80.004	S137	15 Summer	2	+40%					28.193
59.027	PS3000	120 Summer	2	+40%					26.989
59.028	S138	120 Summer	2	+40%					26.851
59.029	S139	120 Summer	2	+40%					26.465
59.030	S142	30 Winter	2	+40%					25.916
1.031	PS2994	30 Winter	2	+40%					25.915
©1982-2020 Innovyze									

Paul Basham Associates							Page 38		
Lancaster Court Fareham Hampshire, PO15 5TU				189.5005 ANGMERING P2 NW 50% AEP +40% CC					
Date 08/10/2025 File 251007_NW PHASE 2.MDX				Designed by LEC Checked by COH					
Innovyze				Network 2020.1.3					
Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3									

189.5005	ANGMERING
----------	-----------

P2 NW

50% AEP +40% CC

Designed by LEC

Checked by COH



Network 2020.1.3

Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3

PN	US/MH Name	Surcharged	Flooded	Half Drain		Pipe	Status	Level Exceeded
		Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Time (mins)		
1.031	PS2994	-0.770	0.000	0.04			236.8	OK

Paul Basham Associates		Page 40
Lancaster Court Fareham Hampshire, PO15 5TU	189.5005 ANGMERING P2 NW 50% AEP +40% CC	
Date 08/10/2025 File 251007_NW PHASE 2.MDX	Designed by LEC Checked by COH	
Innovyze	Network 2020.1.3	

Summary of Critical Results by Maximum Level (Rank 1) for Surface Network 3

	US/MH		Return Climate	First (X)	First (Y)	First (Z)	Overflow	Water
PN	Name	Storm	Period	Change	Surcharge	Flood	Overflow	Act. Level
								(m)
1.032	S147	30 Winter	2	+40%				25.668

	US/MH	Depth	Volume	Flow / Overflow	Time	Pipe		Level
PN	Name	(m)	(m ³)	Cap. (l/s)	(mins)	Flow (l/s)	Status	Exceeded
1.032	S147	-0.282	0.000	0.30		236.0	OK	