STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for Storm

Pipe Sizes SW NETWORK 3 Manhole Sizes SW NETWORK 3

FEH Rainfall Model

Return Period (years)	2
FEH Rainfall Version	2013
Site Location	GB 577291 164528 TQ 77291 64528
Data Type	Point
Maximum Rainfall (mm/hr)	50
Maximum Time of Concentration (mins)	30
Foul Sewage (l/s/ha)	0.000
Volumetric Runoff Coeff.	0.750
PIMP (%)	100
Add Flow / Climate Change (%)	0
Minimum Backdrop Height (m)	0.200
Maximum Backdrop Height (m)	1.500
Min Design Depth for Optimisation (m)	1.200
Min Vel for Auto Design only (m/s)	1.00
Min Slope for Optimisation (1:X)	500

Designed with Level Soffits

Network Design Table for Storm

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000	47.000	1.175	40.0	0.040	5.00	0.0	0.600	o	150	Pipe/Conduit	
1.001	8.680	0.217	40.0	0.000	0.00	0.0	0.600	o	150	Pipe/Conduit	
2.000	10.800	0.072	150.0	0.036	5.00	0.0	0.600	o	150	Pipe/Conduit	
1.002	5.000	0.033	151.5	0.000	0.00	0.0	0.600	o	150	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	5.49	101.472	0.040	0.0	0.0	0.0	1.60	28.2	5.4
1.001	50.00	5.58	100.297	0.040	0.0	0.0	0.0	1.60	28.2	5.4
2.000	50.00	5.22	99.769	0.036	0.0	0.0	0.0	0.82	14.5	4.9
1.002	50.00	5.68	99.697	0.076	0.0	0.0	0.0	0.81	14.4	10.3

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