Table: Computation for Design of Storm Sewer

Line Number	Location of Drain			Tributary area (hectares) increment				Total Area	Weighted Average Imperviousness
	Street	Manhole From	Manhole To	Pervious	20 % Imperviousness	70 % Imperviousness	Impervious		
1	2	3	4	5	6	7	8	9	10
1	South St.			0	0.366	0.286	0.274	0.926	
2				0	0.488	0.167	0.214	0.869	
3	North South St.2			0	0.312	0.415	0.352	1.079	
4				0	0.36	0.358	0.324	1.042	
5	South St.			0	0.466	0.256	0.274	0.996	
6	North South St.3			0	0.492	0.230	0.260	0.982	
7				0	0.310	0.410	0.348	1.068	
8	South St.			0	0.466	0.256	0.274	0.996	
9	North South St.4			0	0.282	0.660	0.517	1.459	
10				0	0.362	0.580	0.479	1.421	
11	South St.			0	0.330	0.670	0.494	1.494	

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Line Number	Total Area	Weighted Average Imperviousness	Time of Concentration t_c			Coefficient of Runoff (C)	Intensity of Rainfall (i)	Incremental Flow/Runoff (10 CiA) m^3/h	Total Flow (Q) = Incoming Flow + Incremental Flow/Runoff lps
			Time of (t_i) inlet to upper end	Time of Flow in Drain t_f	$t_c = t_i + t_f$				
1	9	10	11	12	13	14	15	16	17
1	0.926		12.0						
2	0.869		13.3						
3	1.079		11.0						
4	1.042		11.5						
5	0.996		12.5						
6	0.982		12.8						
7	1.068		11.0						
8	0.996		12.5						
9	1.459		10.2						
10	1.421		10.8						
11	1.494		10.4						

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Line Number	Total Flow (Q) lps	Design						Profile		
		Dia mm	Slope m/1000	Capacity lps	Velocity mps	Length m	Fall m	Drop in Manhole	Invert Elevation Upper end	Invert Elevation Lower end
1	18	19	20	21	22	23	24	25	26	27
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										