

**Flow Spread**

- So Longitudinal slope
- n Manning's n
- Sb Boulevard slope
- Sx Cross slope
- Sw Depression (shoulder) slope
- W Depression (shoulder) width
- T Flow Spread
- P Wetted Perimeter
- R Hydraulic Radius



$$Q = AR^{2/3} S^{1/2} / n$$

Curb Height	0.150
Paved Width	9.00
Boulevard Width	0.00
n (paved)	0.013
n (boulevard)	0.013
So	0.015
Sx	0.030
Sb	0.030
Max Flow Depth	0.068
Max Spread T	2.250

Area 1	(Half Roadway to CL)
Height	0.068
Width	2.250
Area	0.076
P	2.319
R	0.033
Q	0.073
A	0.076
Q (m3/s)	0.073
<b>Q (L/s)</b>	<b>73.2</b>
V (m/s)	0.964
V x d	0.065

5yr Flows Per Rational Method:

A	998.071
B	6.053
C	0.814
Tc	10.0
I	104.2

Subcatchment:

A	0.108
C	0.68

Runoff:	21.3 L/s
Uncontroll	24.1 L/s
<b>Total</b>	<b>45.4 L/s</b>