

<u>Symbol</u>	<u>Definition</u>	<u>Units</u>
A	Area of cross section	m ²
A	Watershed area	ha
a	Depth of depression	mm
C	Runoff coefficient or coefficient	-
d	Depth of gutter flow at the curb line	m
D	Diameter of pipe	m
E _O	Ratio of frontal flow to total gutter flow Q_w/Q	-
h	Height of curb opening inlet	m
H	Head loss	m
I	Rainfall intensity	mm/h
K	Coefficient	-
L	Length of curb opening inlet	m
L	Pipe length	m
L	Pavement width	m
L	Length of runoff travel	m
n	Roughness coefficient in Manning formula	-
P	Perimeter of grate opening, neglecting bars and side against curb	m
P	Tire pressure	N/m ²
Q	Rate of discharge in gutter	m ³ /s
Q _i	Intercepted flow	m ³ /s
Q _S	Gutter capacity above the depressed section	m ³ /s
Q _T	Total flow	m ³ /s
Q _w	Gutter capacity in the depressed section	m ³ /s
R _h	Hydraulic radius	m
S or S _X	Pavement cross slope	m/m
S	Crown slope of pavement	m/m
S or S _L	Longitudinal slope of pavement	m/m
S _w	Depressed section slope	m/m
T	Top width of water surface (spread on pavement)	m
t _C	Time of concentration	min
T _D	Tire tread depth	mm
T _S	Spread above depressed section	m
TXD	Pavement texture depth	mm
V	Vehicle speed	km/h
V	Velocity of flow	m/s
W	Width of depression for curb opening inlets	m
W _d	Rotational velocity on dry surface	rpm
WD	Water depth	mm
W _w	Rotational velocity on flooded surface	rpm
y	Depth of flow in approach gutter	m
Z	T/d, reciprocal of the cross slope	-

SYMBOLS AND DEFINITIONS

Figure 36-3A