

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

SYMBOLS AND DEFINITIONS

Figure 36-3A