

Appendix 8-A
Symbols and Acronyms

Chapter 8 Symbols

<u>Symbol</u>	<u>Definitions</u>	<u>Units</u>
a	Height of rectangular base	ft.
A	Cross-sectional Area of Pipe	sf
A _p	Area of impervious pavement	acres
A _u	Unpaved area	acres
A ₁	Surface Area	sf
b	Width of weir	ft.
C	Weir coefficient	-
D	Depth of basin	ft.
D	Diameter of pipe (Section 12.4.6.5)	ft.
d	Distance between elevation points (Section 12.4.6)	ft.
d	Depth	in.
dt	Change in time	s
f	Infiltration rate	hr.
g	Acceleration due to gravity (32.2 ft./s ²)	ft./s ²
H	Head	ft.
H _c	Height of weir crest above channel bottom	ft.
I	Inflow	cfs
K	Swale length formula constant	-
L	Length of basin at base	ft.
L	Horizontal weir length	ft.
n	Manning's roughness coefficient	-
O	Outflow or discharge	cfs
Q	Discharge	cfs
Q _f	Free flow	cfs
Q _s	Submergence flow	cfs
S	Longitudinal slope	ft./ft.
S	Storage (Section 12.4.7)	acre-ft.

S_a	Surface area	sf
T_s	Time of storage	hr.
V, V_s	Storage volume	cf
Vol_s	Storage volume	cf
V_r	Void ratio	-
W	Width of basin at base	ft.
Z	Side slope factor, ratio of vertical/horizontal	-

Acronyms

APA	Authorized Public Agency
FHWA	Federal Highway Administration
MDEQ	Michigan Department of Environmental Quality
MDOT	Michigan Department of Transportation
NPDES	National Pollution Discharge Elimination System
NREPA	National Resources and Environmental Protection Act Act 451, Public Acts of 1994, as Amended