

Appendix 8-A

Symbols and Acronyms

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If you require assistance accessing this information or require it in an alternative format, contact the Michigan Department of Transportation's (MDOT) Americans with disabilities Act (ADA) coordinator at [Michigan.gov/MDOT-ADA](https://www.michigan.gov/MDOT-ADA).

Symbols

Symbol	Definitions	Units
A	Cross-section area of orifice	sf
A _{1,2}	Surface area at elevations 1 and 2, respectively	sf
C	Weir coefficient	-
d	Change in elevation between elevations 1 and 2	ft
d	Maximum ponding depth	in
dt	Change in time	s
f	Steady infiltration rate	hr
g	Acceleration due to gravity (32.2 ft/s ²)	ft/s ²
H	Head above weir crest	ft
H	Head above weir crest not including velocity head	ft
H	Head on apex of notch	ft
H _c	Height of weir crest above channel bottom	ft
H ₁	Upstream head above crest	ft
H ₂	Downstream head above crest	ft
I	Inflow	cfs
K _u	V-notch weir constant, 2.5	-
L	Weir length	ft
O	Outflow or discharge	cfs
Q	Discharge	cfs
Q _f	Unsubmerged weir flow	cfs
Q _s	Submergence flow	cfs
S	Storage	acre-ft
T _s	Time of storage	hr
V _{1,2}	Storage volume between elevations 1 and 2	cf
Z	Slope of weir subsection	-
θ	Angle of v-notch	degrees

Acronyms

AASHTO	American Association of State Highway and Transportation Officials
AEP	Annual Exceedance Probability
EGLE	Michigan Department of Environment, Great Lakes, and Energy
FAA	Federal Aviation Administration
FHWA	Federal Highway Administration
HEC	Hydraulic Engineering Circular
HSG	Hydrologic Soil Group
MCL	Michigan Compiled Laws
MDOT	Michigan Department of Transportation
MS4	Municipal Separate Storm Sewer System
NPDES	National Pollutant Discharge Elimination System
NRCS	Natural Resources Conservation Service
NREPA	Natural Resources Environmental Protection Act, Michigan Act 451, Public Acts of 1994, as amended
PC-SCM	Post-Construction Stormwater Control Measure
ROW	Right-of-Way
SCM	Stormwater Control Measure
USC	United States Code