

<u>Symbol</u>	<u>Definition</u>	<u>Units</u>
A	Cross sectional area	m <sup>2</sup>
A <sub>o</sub>	Area of flow at culvert outlet	m <sup>2</sup>
d <sub>E</sub>	Equivalent depth at brink	m
d <sub>o</sub>	Normal flow depth at brink	m
D	Height of culvert	mm
d <sub>50</sub>	Mean diameter of riprap	mm
DI	Discharge Intensity Modified	-
Fr	Froude Number	-
h <sub>s</sub>	Depth of dissipator pool	m
L	Length of culvert	m
L <sub>B</sub>	Overall length of basin	m
L <sub>S</sub>	Length of dissipator pool	m
Q	Rate of discharge	m <sup>3</sup> /s
S <sub>o</sub>	Slope of streambed	m/m
TW	Tailwater depth	m
V <sub>d</sub>	Velocity downstream	m/s
V <sub>L</sub>	Velocity - (L) meters from brink	m/s
V <sub>o</sub>	Normal velocity at brink	m/s
W <sub>o</sub>	Diameter or width of culvert	mm
W <sub>S</sub>	Width of scour hole	m

## SYMBOLS, DEFINITIONS AND UNITS

**Figure 34-1A**