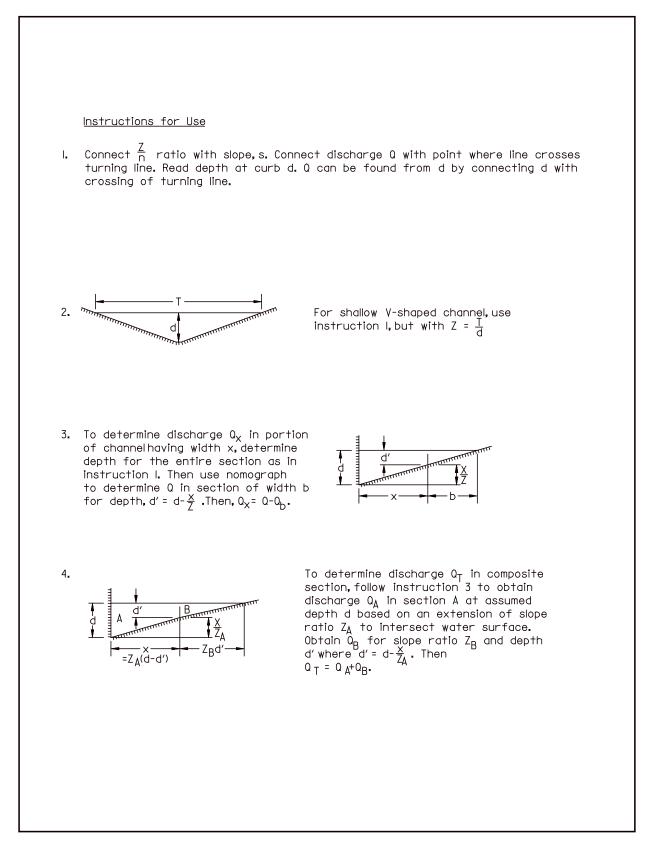
APPENDIX G NOMOGRAPHS AND CHARTS FOR GUTTER FLOW & INLET DESIGN

Exhibit G.1	Use of Nomograph for Flow in Triangular Channels	G-2
Exhibit G.2	Nomograph for Flow, Q, in Triangular Channels	G-3
Exhibit G.3	Capacity Nomograph for Curb Opening Inlets on Continuous Grade	G-4
Exhibit G.4	Capacity Nomograph for Curb Opening Inlets in a Low Point or Sump)G-5
Exhibit G.5	Performance Curves for Curb Inlets Standard Plan	G-6
Exhibit G.6	Ratio of Frontal Flow to Total Gutter Flow	G-7
Exhibit G.7	Grate Inlet Frontal Flow Interception Efficiency	G-8
Exhibit G.8	Grate Inlet Side Flow Interception Efficiency	G-9
Exhibit G.9	Grate Inlet Capacity in Sump Conditions	G-10
Exhibit G.10	Slotted Inlet Length for Total Interception	G-11
Exhibit G.11	Slotted Inlet Interception Efficiency	G-12
Exhibit G.12	Slotted Inlet Capacity in Sump Locations	G-13
Exhibit G.13	Value of K for Slotted Vane Drain	G-14





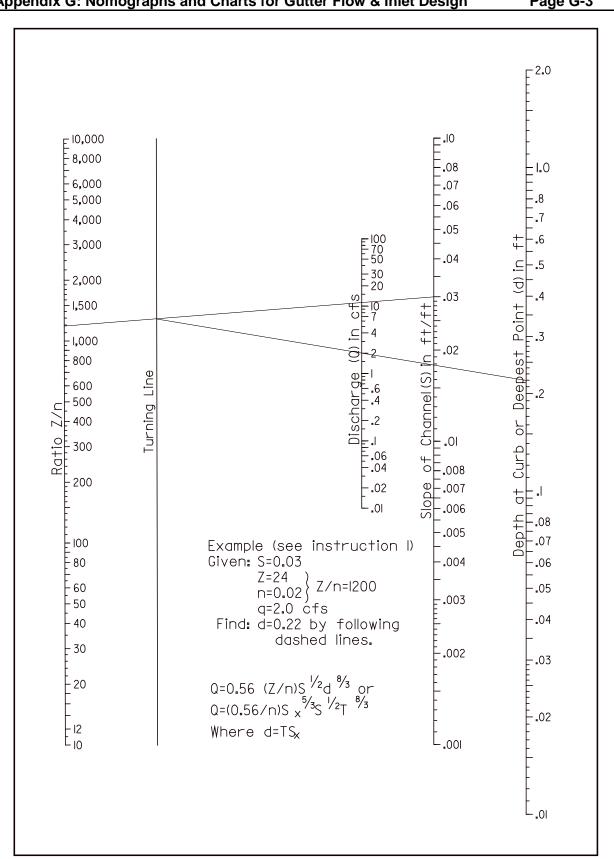


Exhibit G.2 Nomograph for Flow, Q, in Triangular Channels

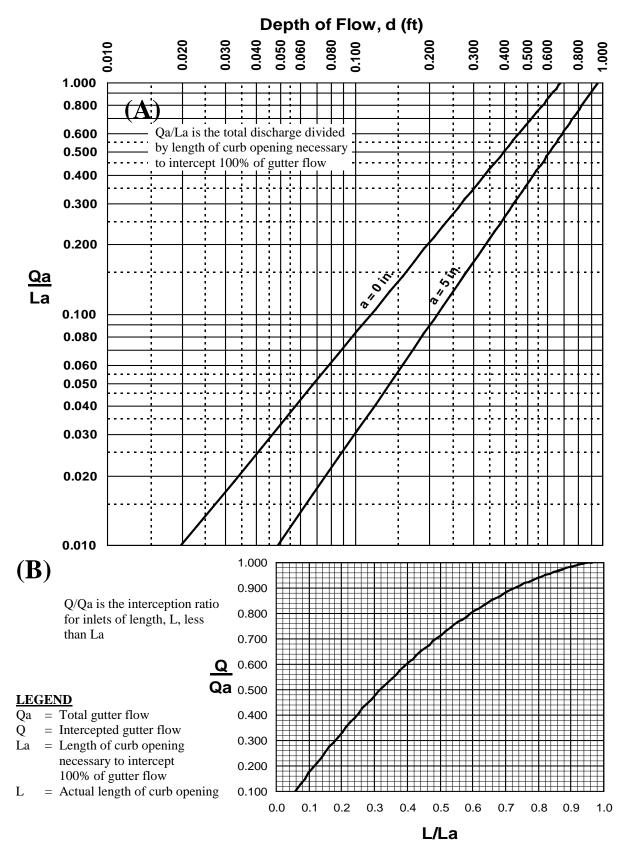


Exhibit G.3 Capacity Nomograph for Curb Opening Inlets on Continuous Grade

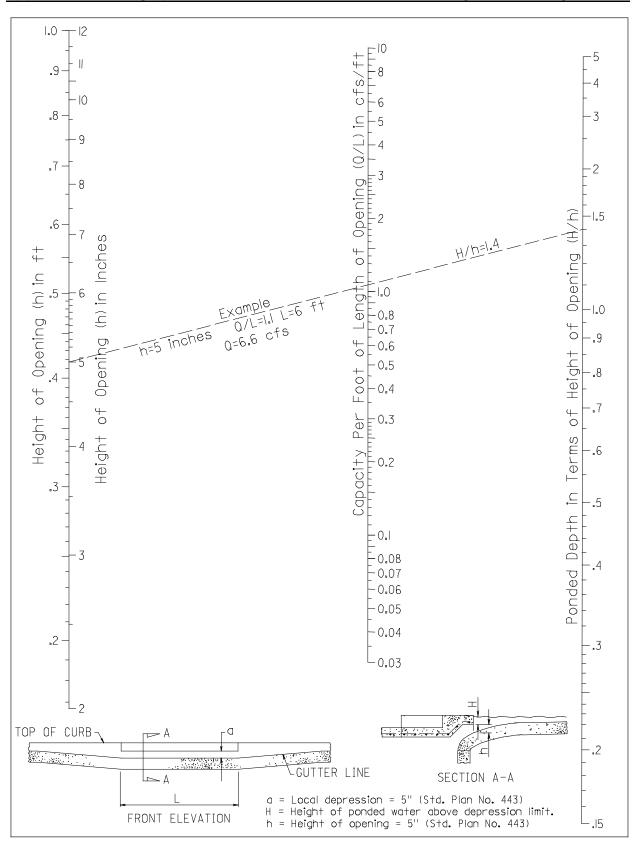


Exhibit G.4 Capacity Nomograph for Curb Opening Inlets in a Low Point or Sump

August 2006 Page G-5

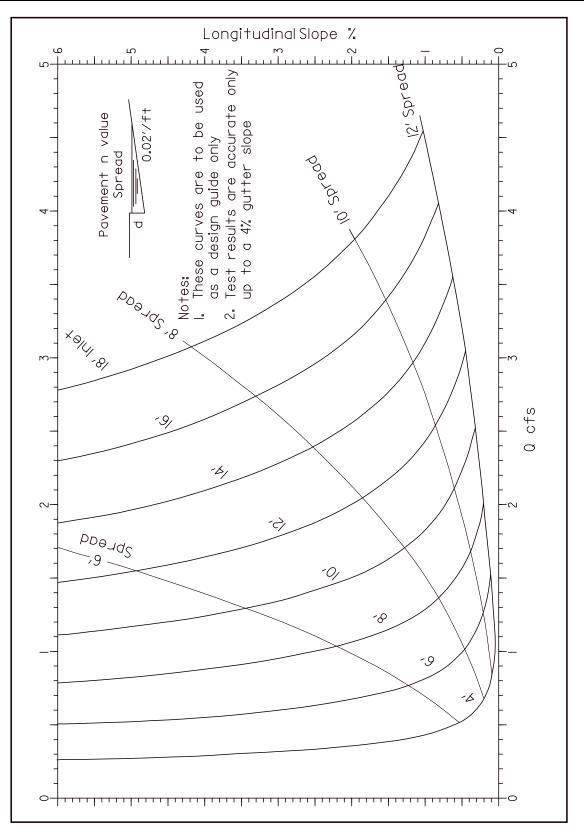


Exhibit G.5 Performance Curves for Curb Inlets Standard Plan (For a cross-slope of 0.02 ft/ft)

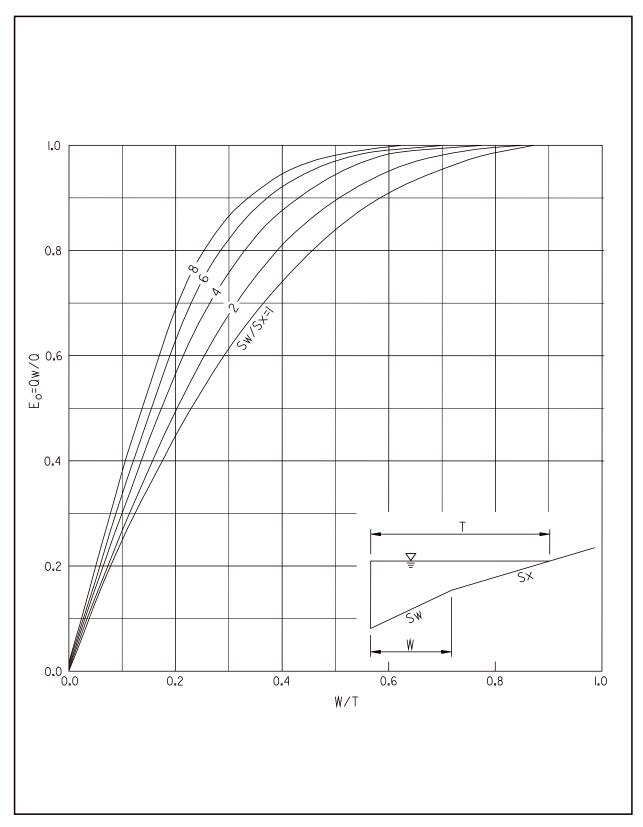


Exhibit G.6 Ratio of Frontal Flow to Total Gutter Flow (Source: Reference G.1)

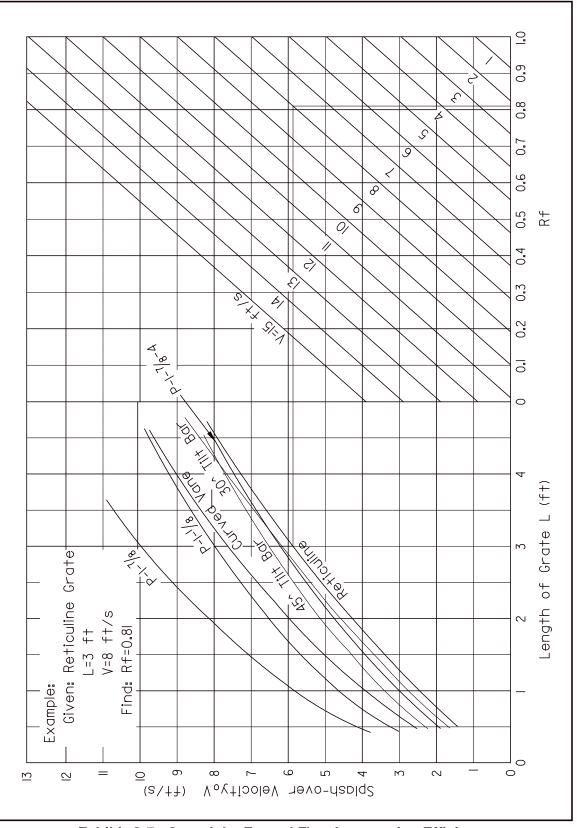


Exhibit G.7 Grate Inlet Frontal Flow Interception Efficiency (Source: Reference G.1)



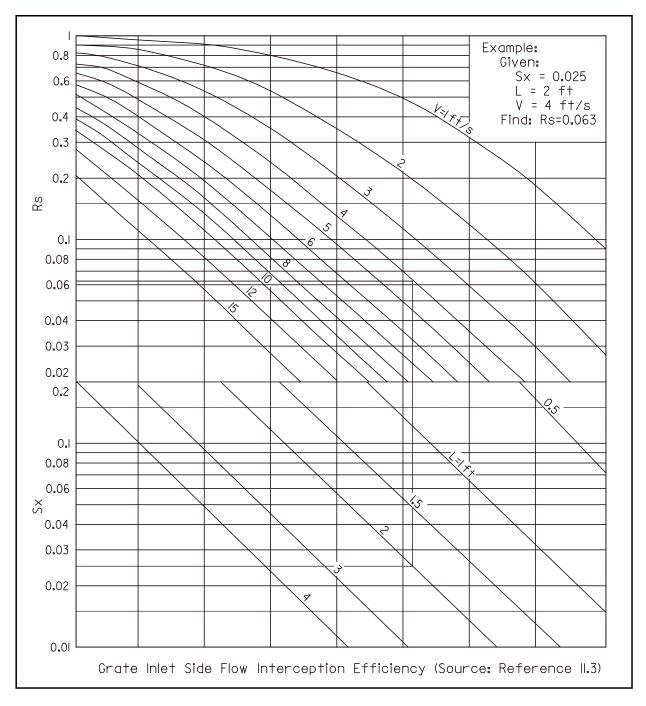


Exhibit G.8 Grate Inlet Side Flow Interception Efficiency (Source: Reference G.1)



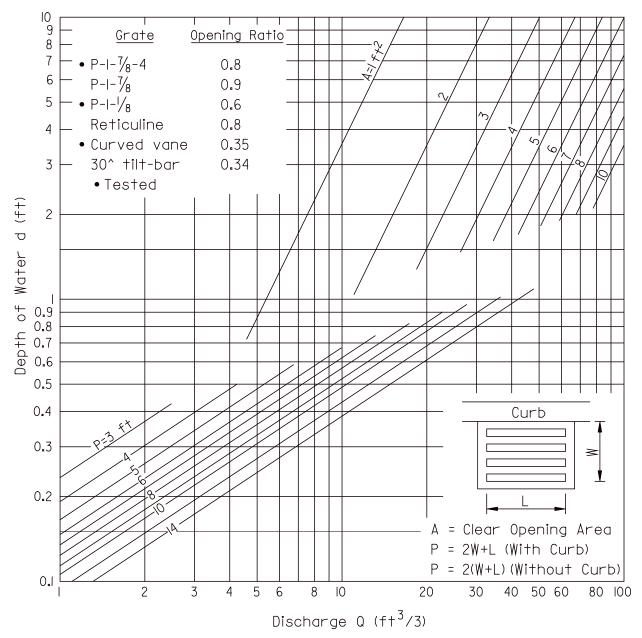


Exhibit G.9 Grate Inlet Capacity in Sump Conditions (Source: Reference G.1)



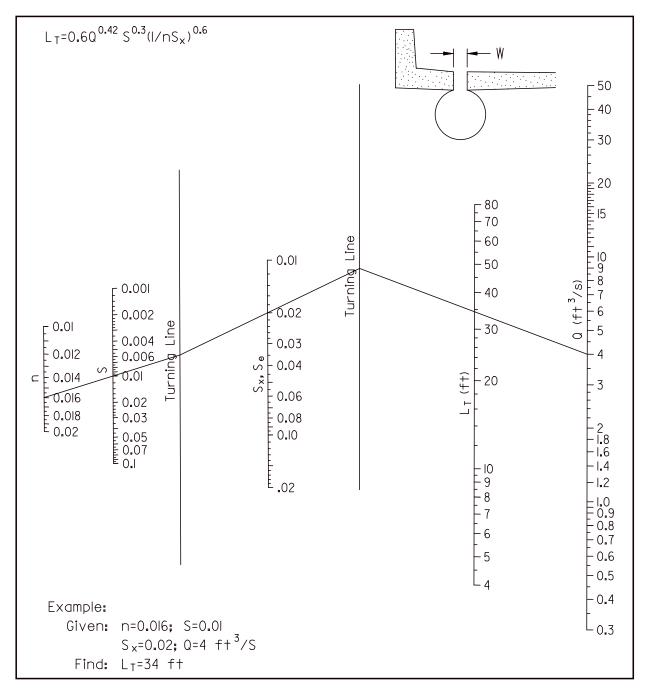
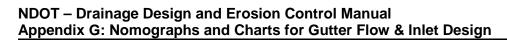
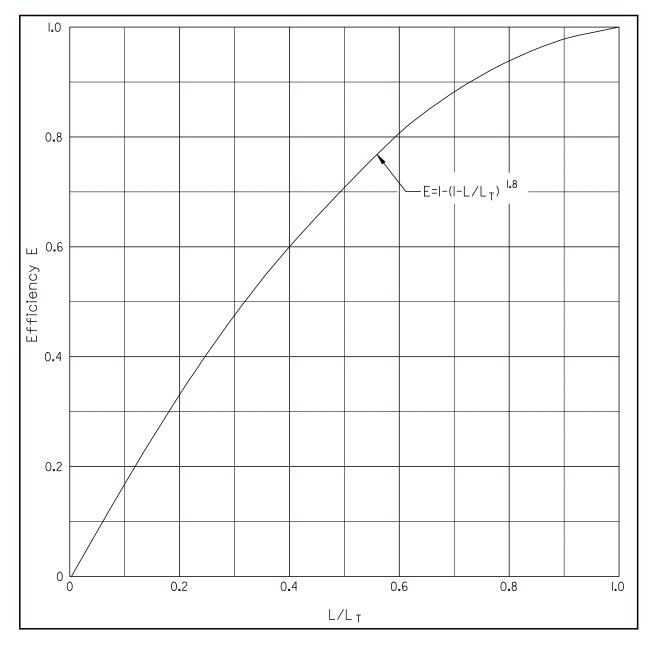


Exhibit G.10 Slotted Inlet Length for Total Interception (Source: Reference G.1)





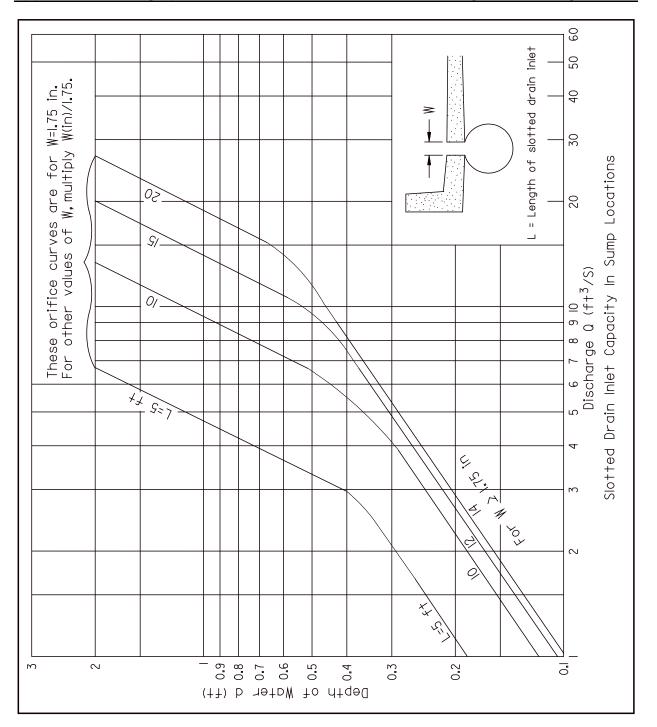
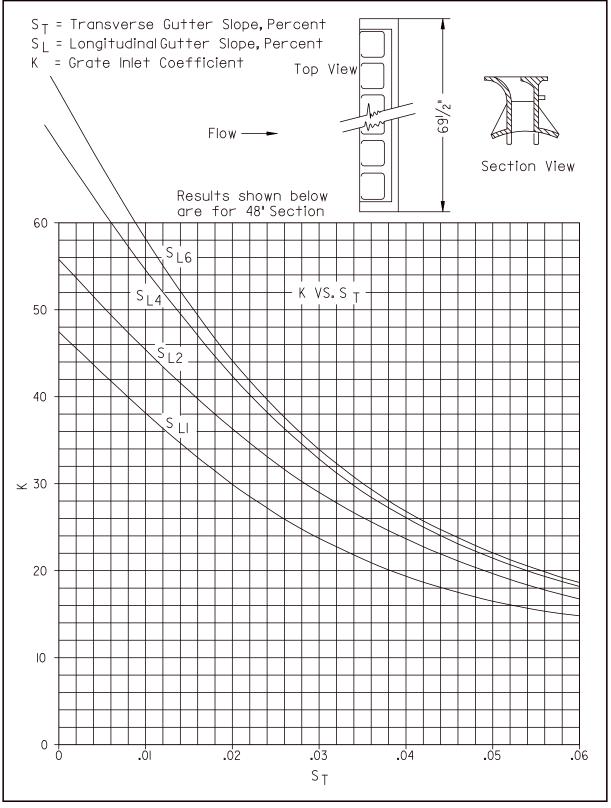


Exhibit G.12 Slotted Drain Inlet Capacity in Sump Locations (Source: Reference G.1)

NDOT – Drainage Design and Erosion Control Manual Appendix G: Nomographs and Charts for Gutter Flow & Inlet Design





REFERENCES

G.1 U.S. Department of Transportation, Federal Highway Administration, Drainage of Highway Pavements, Hydraulic Engineering Circular (HEC) 12, FHWA-TS-84-202, 1984. (https://www.fhwa.dot.gov/engineering/hydraulics/pubs/hec/hec12.pdf)