

Worksheet for Option 1 WB - Curb Opening

Project Description

Solve For Efficiency

Input Data

Discharge	2.98	ft ³ /s
Slope	0.00740	ft/ft
Gutter Width	2.00	ft
Gutter Cross Slope	0.016	ft/ft
Road Cross Slope	0.016	ft/ft
Roughness Coefficient	0.016	
Curb Opening Length	17.00	ft
Local Depression	2.00	in
Local Depression Width	2.00	ft

Results

Efficiency	100.00	%
Intercepted Flow	2.98	ft ³ /s
Bypass Flow	0.00	ft ³ /s
Spread	13.21	ft
Depth	0.21	ft
Flow Area	1.40	ft ²
Gutter Depression	0.00	ft
Total Depression	0.17	ft
Velocity	2.14	ft/s
Equivalent Cross Slope	0.04555	ft/ft
Length Factor	1.02	
Total Interception Length	16.62	ft