

Worksheet for Options 2 & 5 WB - Curb Opening

Project Description

Solve For Efficiency

Input Data

Discharge	19.82	ft ³ /s
Slope	0.00740	ft/ft
Gutter Width	2.00	ft
Gutter Cross Slope	0.009	ft/ft
Road Cross Slope	0.009	ft/ft
Roughness Coefficient	0.016	
Curb Opening Length	48.00	ft
Local Depression	2.00	in
Local Depression Width	2.00	ft

Results

Efficiency	94.72	%
Intercepted Flow	18.77	ft ³ /s
Bypass Flow	1.05	ft ³ /s
Spread	37.98	ft
Depth	0.35	ft
Flow Area	6.63	ft ²
Gutter Depression	0.00	ft
Total Depression	0.17	ft
Velocity	2.99	ft/s
Equivalent Cross Slope	0.02040	ft/ft
Length Factor	0.80	
Total Interception Length	59.64	ft