

Analyzer Report

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Drainage Structure Analyzer

Culvert Hydraulic Analysis

Date: Monday, October 06, 2014 4:54:22 PM

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Input Data

Shape	Circular
Material	CMP-16G NEW CUL
Roughness	0.022000
Entrance Edge	Headwall
Number of Barrels	2
Length	55.0000 ft
Slope	12.7000%
Tailwater	0.0000 ft
Inlet Control Equation	Entrance Loss
Size (W x T):	24.00 x 0.0640
Flow Rate	31.0000 cfs

Output Results

Flow Rate	31.0000 cfs
Control	Inlet
Capacity	95.2777 cfs
Manning's Velocity	13.5474 ft/s
Headwater	2.1290 ft
Critical Depth	1.4100 ft
Normal Depth	0.7840 ft
Size (W x T):	24.00 x 0.0640

88% OF OFFSITE BASIN C IS IMPACTED
BY THE TEMP CONSTRUCTION ENTRANCE.

$$\Rightarrow Q = 31 \text{ CFS}$$