

Analyzer Report

Drainage Structure Analyzer

Pipe Hydraulic Analysis

Date: Monday, December 23, 2019 3:32:19 PM

Input Data

Shape	Circular
Material	RC C76-A
Roughness	0.013000
Method	Manning
Flow Rate	44.2000 cfs
Slope	3.4500%
Size (W x T):	30.00 x 3.5000

Output Results

Flow Rate	44.2000 cfs
Slope	3.4500%
d/D	0.5464
Capacity	76.1860 cfs
Velocity	16.1082 ft/s
Depth	1.3660 ft
Critical Depth	2.2100 ft
Size (W x T):	30.00 x 3.5000

Successful completion



pipe not under pressure. depth of flow 86.20 at pipe inlet. Invert of 30" pipe is 84.05. HGL at SDMH1 is 82.74 with an invert of 82.08