

Culvert Analysis Report

Culvert-1

Culvert Summary			
Computed Headwater Elev.	7,017.47 ft	Discharge	0.41 cfs
Inlet Control HW Elev.	7,017.45 ft	Tailwater Elevation	0.00 ft
Outlet Control HW Elev.	7,017.47 ft	Control Type	Entrance Control
Headwater Depth/Height	0.25		
Grades			
Upstream Invert	7,017.09 ft	Downstream Invert	7,016.42 ft
Length	18.18 ft	Constructed Slope	0.036854 ft/ft
Hydraulic Profile			
Profile	S2	Depth, Downstream	0.20 ft
Slope Type	Steep	Normal Depth	0.20 ft
Flow Regime	Supercritical	Critical Depth	0.24 ft
Velocity Downstream	2.96 ft/s	Critical Slope	0.017909 ft/ft
Section			
Section Shape	Circular	Mannings Coefficient	0.024
Section Material	Aluminum	Span	1.50 ft
Section Size	18 inch	Rise	1.50 ft
Number Sections	1		
Outlet Control Properties			
Outlet Control HW Elev.	7,017.47 ft	Upstream Velocity Head	0.08 ft
Ke	0.70	Entrance Loss	0.06 ft
Inlet Control Properties			
Inlet Control HW Elev.	7,017.45 ft	Flow Control	Unsubmerged
Inlet Type	Mitered to slope	Area Full	1.8 ft²
K	0.02100	HDS 5 Chart	2
M	1.33000	HDS 5 Scale	2
C	0.04630	Equation Form	1
Y	0.75000		