

Ridgepoint Culvert
Worksheet for Circular Channel

Project Description	
Project File	untitled.fm2
Worksheet	RidgePoint Culvert
Flow Element	Circular Channel
Method	Manning's Formula
Solve For	Channel Diameter

Input Data		
Mannings Coefficient	0.013	
Channel Slope	0.010000	ft/ft
Depth	2.16	ft
Discharge	29.00	cfs

Results		
Diameter	26.05	in
Flow Area	3.70	ft ²
Wetted Perimeter	6.51	ft
Top Width	0.31	ft
Critical Depth	1.87	ft
Percent Full	99.50	
Critical Slope	0.009792	ft/ft
Velocity	7.84	ft/s
Velocity Head	0.96	ft
Specific Energy	3.12	ft
Froude Number	0.40	
Maximum Discharge	30.28	cfs
Full Flow Capacity	28.15	cfs
Full Flow Slope	0.010613	ft/ft
Flow is subcritical.		
