

Jamesburg Culvert
Worksheet for Circular Channel

Project Description	
Project File	untitled.fm2
Worksheet	Jamesburg 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	1.84	ft
Discharge	18.00	cfs

Results		
Diameter	22.03	in
Flow Area	2.65	ft ²
Wetted Perimeter	5.77	ft
Top Width	0.00	ft
Critical Depth	1.55	ft
Percent Full	100.00	
Critical Slope	0.009548	ft/ft
Velocity	6.80	ft/s
Velocity Head	0.72	ft
Specific Energy	FULL	ft
Froude Number	FULL	
Maximum Discharge	19.36	cfs
Full Flow Capacity	18.00	cfs
Full Flow Slope	0.010000	ft/ft
