

Cross Section for Section B - 100 yr - Michelli Crest (Existing)

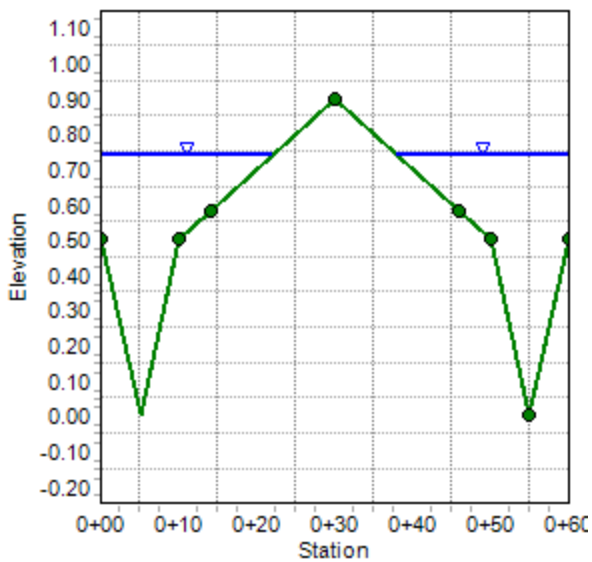
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	1.40	%
Normal Depth	0.74	ft
Discharge	36.00	ft ³ /s

Cross Section Image



Worksheet for Section B - 100 yr - Michelli Crest (Existing)

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	1.40	%
Discharge	36.00	ft ³ /s
Section Definitions		

Station (ft)	Elevation (ft)
0+00.0	0.50
0+05.0	0.00
0+10.0	0.50
0+14.0	0.58
0+30.0	0.90
0+46.0	0.58
0+50.0	0.50
0+55.0	0.00
0+60.0	0.50

Roughness Segment Definitions

Start Station & Elevation	End Station & Elevation	Roughness Coefficient
(0+00.0, 0.50)	(0+10.0, 0.50)	0.030
(0+10.0, 0.50)	(0+14.0, 0.58)	0.030
(0+14.0, 0.58)	(0+30.0, 0.90)	0.025
(0+30.0, 0.90)	(0+46.0, 0.58)	0.016
(0+46.0, 0.58)	(0+50.0, 0.50)	0.025
(0+50.0, 0.50)	(0+55.0, 0.00)	0.030
(0+55.0, 0.00)	(0+60.0, 0.50)	0.030

Options

Current Roughness Weighted Method	Pavlovskii's Method
Open Channel Weighting Method	Pavlovskii's Method
Closed Channel Weighting Method	Pavlovskii's Method

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Results

Normal Depth		0.74	ft
Elevation Range	0.00 to 0.90 ft		
Flow Area		12.63	ft ²
Wetted Perimeter		44.47	ft
Hydraulic Radius		0.28	ft
Top Width		43.89	ft
Normal Depth		0.74	ft
Critical Depth		0.72	ft
Critical Slope		0.01607	ft/ft
Velocity		2.85	ft/s
Velocity Head		0.13	ft
Specific Energy		0.87	ft
Froude Number		0.94	
Flow Type	Subcritical		

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Downstream Velocity	Infinity	ft/s
Upstream Velocity	Infinity	ft/s
Normal Depth	0.74	ft
Critical Depth	0.72	ft
Channel Slope	1.40	%
Critical Slope	0.01607	ft/ft

Messages

Notes

XOFF5 + XOFF2