

Cross Section for Section B - 10 yr - Michelli Crest (Existing)

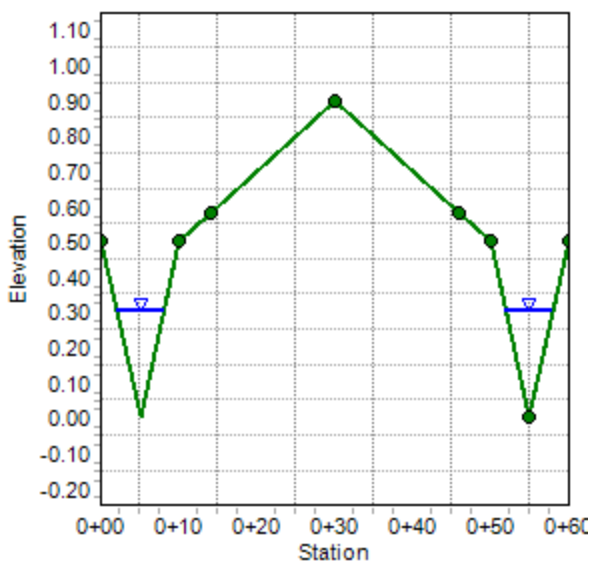
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	1.40	%
Normal Depth	0.30	ft
Discharge	3.00	ft ³ /s

Cross Section Image



Worksheet for Section B - 10 yr - Michelli Crest (Existing)

Project Description

Friction Method Manning Formula
Solve For Normal Depth

Input Data

Channel Slope 1.40 %
Discharge 3.00 ft³/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		0.30	ft
Elevation Range	0.00 to 0.90 ft		
Flow Area		1.82	ft ²
Wetted Perimeter		12.11	ft
Hydraulic Radius		0.15	ft
Top Width		12.05	ft
Normal Depth		0.30	ft
Critical Depth		0.27	ft
Critical Slope		0.02578	ft/ft
Velocity		1.65	ft/s
Velocity Head		0.04	ft
Specific Energy		0.34	ft
Froude Number		0.75	
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	0.30	ft
Critical Depth	0.27	ft
Channel Slope	1.40	%
Critical Slope	0.02578	ft/ft

Messages

Notes

XOFF5 + XOFF2