Lot 284/285

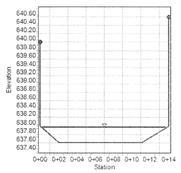
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.01000	ft/ft
Normal Depth	0.36	ft
Discharge	10.60	ft³/s

Cross Section Image



Results

Normal Depth	0.36	ft
Elevation Range	637.50 to 637.90 ft	
Flow Area	4.01	ft²
Wetted Perimeter	13.52	ft
Hydraulic Radius	0.30	ft
Top Width	13.46	ft
Normal Depth	0.36	ft
Critical Depth	0.32	ft
Critical Slope	0.01410	ft/ft

Results

Velocity	2.64	ft/s
Velocity Head	0.11	ft
Specific Energy	0.47	ft
Froude Number	0.85	
Flow Type	Subcritical	

Lot 302/303

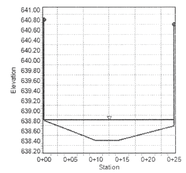
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.02000	ft/ft
Normal Depth	0.41	ft
Discharge	22.42	ft³/s

Cross Section Image



Results

Normal Depth	0.41	ft
Elevation Range	638.40 to 640.80 ft	
Flow Area	6.54	ft²
Wetted Perimeter	25.13	ft
Hydraulic Radius	0.26	ft
Top Width	25.00	ft
Normal Depth	0.41	ft

Results

Critical Depth	0.44	ft
Critical Slope	0.01386	ft/ft
Velocity	3.43	ft/s
Velocity Head	0.18	ft
Specific Energy	0.59	ft
Froude Number	1.18	
Flow Type	Supercritical	

Lots 274/275

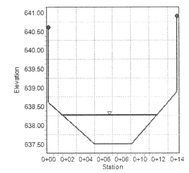
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.03000	ft/ft
Normal Depth	0.77	ft
Discharge	37.10	ft³/s

Cross Section Image



Results

Normal Depth	0.77	ft
Elevation Range	637.50 to 640.90 ft	
Flow Area	5.52	ft²
Wetted Perimeter	10.47	ft
Hydraulic Radius	0.53	ft
Top Width	10.28	ft
Normal Depth	0.77	ft

Results

Critical Depth	1.00	ft
Critical Slope	0.01072	ft/ft
Velocity	6.72	ft/s
Velocity Head	0.70	ft
Specific Energy	1.48	ft
Froude Number	1.62	
Flow Type	Supercritical	

Lot 268/269

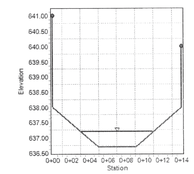
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.03000	ft/ft
Normal Depth	0.49	ft
Discharge	15.34	ft³/s

Cross Section Image



Results

Normal Depth	0.49	ft
Elevation Range	636.70 to 641.00 ft	
Flow Area	2.91	ft²
Wetted Perimeter	7.92	ft
Hydraulic Radius	0.37	ft
Top Width	7.79	ft
Normal Depth	0.49	ft

Results

Critical Depth	0.63	ft
Critical Slope	0.01213	ft/ft
Velocity	5.28	ft/s
Velocity Head	0.43	ft
Specific Energy	0.93	ft
Froude Number	1.52	
Flow Type	Supercritical	

Lot 343/344

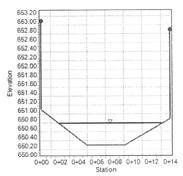
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.02000	ft/ft
Normal Depth	0.49	ft
Discharge	15.00	ft³/s

Cross Section Image



Results

Normal Depth	0.49	ft
Elevation Range	650.20 to 653.00 ft	
Flow Area	3.72	ft²
Wetted Perimeter	11.23	ft
Hydraulic Radius	0.33	ft
Top Width	11.16	ft
Normal Depth	0.49	ft

Results

Critical Depth	0.55	ft
Critical Slope	0.01285	ft/ft
Velocity	4.03	ft/s
Velocity Head	0.25	ft
Specific Energy	0.74	ft
Froude Number	1.23	
Flow Type	Supercritical	

Lot 350/351

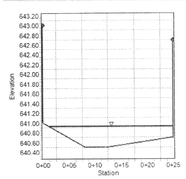
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.02000	ft/ft
Normal Depth	0.43	ft
Discharge	28.76	ft³/s

Cross Section Image



Results

Normal Depth	0.43	ft
Elevation Range	640.50 to 643.00 ft	
Flow Area	7.47	ft²
Wetted Perimeter	24.11	ft
Hydraulic Radius	0.31	ft
Top Width	23.86	ft
Normal Depth	0.43	ft

Results

Critical Depth	0.48	ft
Critical Slope	0.01314	ft/ft
Velocity	3.85	ft/s
Velocity Head	0.23	ft
Specific Energy	0.66	ft
Froude Number	1.21	
Flow Type	Supercritical	

Lot 373/374

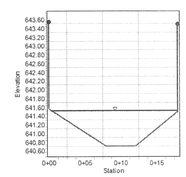
Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Channel Slope	0.02000	ft/ft
Normal Depth	0.81	ft
Discharge	45.78	ft³/s

Cross Section Image



Results

Normal Depth	0.81	ft
Elevation Range	640.70 to 643.55 ft	
Flow Area	8.72	ft²
Wetted Perimeter	17.69	ft
Hydraulic Radius	0.49	ft
Top Width	17.59	ft
Normal Depth	0.81	ft

Results

Critical Depth	0.91	ft
Critical Slope	0.01110	ft/ft
Velocity	5.25	ft/s
Velocity Head	0.43	ft
Specific Energy	1.23	ft
Froude Number	1.31	
Flow Type	Supercritical	

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03/07/2022
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INVERNESS

EMERGENCY OVERFLOW SECTIONS

1575 BRYAN RD.

PHASE 3

Project # 22450

01/20/2022

C32

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