BF 72240 Hwy 20 Over Blindman River Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0035
B = 2 m, h = 1.3 m, T_h = 5 m
Use n = 0.05

At Bank Height : Y = 1.3 m, V = 1.0 m/s, Q = 5 cms
At Channel Capacity : Y = 2.0 m, V = 1.5 m/s, Q = 12 cms

Historical Highwater Data :

HW was noted in July 1990 with u/s HW 2.3m higher than the d/s invert (Q = 5 – 6cms, ponding u/s). A 1964 report estimated Q = 3cms.

There are no gauges on this stream. Gauges in the area suggest large runoff events in July of 1981, 1982, 1986, and 1990. The largest storm in the database for this area is July 1990 with 145mm of rainfall, followed by July 1986 with 125mm and July 1982 with 115mm.

Basin Runoff Potential :

d = 70mm, T_p = 20hrs, q = 1.0 cms/km^2.
Gross DA = 21 km^2.
Q_p = 21 cms.

Conclusion :

The channel capacity estimate is consistent with historic observations and is within the basin runoff potential.

Recommended parameters : Y = 2.0 m, V = 1.5 m/s, Q = 12 cms.