BF 73087 Local Road Over Wabash Ck Tributary
Hydrotechnical Summary

Channel Capacity :

S = 0.0025
B = 3 m, h = 1.2 m, T_h = 6 m
Use n = 0.05

At Bank Height : Y = 1.2 m, V = 0.9 m/s, Q = 5 cms
At Channel Capacity : Y = 1.8 m, V = 1.4 m/s, Q = 12 cms

Historical Highwater Data :

A 1955 report notes water having been to the deck (Y = 1.2m d/s, scour hole at bridge) and estimates Q = 7cms.

There are no gauges on this stream. Gauges in the area suggest large runoff events in April 1974, April 1982, April 1985, and April 1997. The largest storm in the storm database is 145mm of rainfall in July 1953.

Basin Runoff Potential :

d = 40mm, T_p = 20hrs, q = 0.55 cms/km^2.
Gross DA = 12 km^2.
Q_p = 7 cms.

Conclusion :

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

Recommended parameters : Y = 1.8 m, V = 1.4 m/s, Q = 12 cms.