

McCutcheon Bridge Replacement

Client: Town of Bracebridge

Year: 2011



SERVICES PROVIDED

CCTA was retained by the Town of Bracebridge to undertake the preliminary and final design for the replacement of the single lane concrete T-beam structure constructed circa 1918, spanning the Black River. The bridge has an existing span of 10.2 m with a width of 4.9 m. A hydraulic model was completed to analyze the existing and projected flows through the structure as well as at the downstream structure to determine the required opening size, and its affect on the downstream conditions. This model also included an ice jamming analysis as flooding due to ice is known to be a problem at this location. Alternative types of structures and barriers were reviewed and presented in the preliminary design report. Final design involved the permanent realignment of the road to improve the adjacent intersection, removal of the existing bridge, design of new reinforced concrete abutments dowelled into bedrock, the installation of a 27.4 m span Mabey Compact 200 panel bridge, and channel improvements. CCTA also provided contract administration and construction review and the project was successfully constructed by November 2014.

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