FINEL HOLLOW BRIDGE NO. 2

POULTNEY, VERMONT

Town Highway Bridge No. 2, Poultney

Eastern abutment

Dufresne Group (DG) completed a preliminary engineering report for Town Highway Bridge No. 2 on State Highway 140 over the Finel Hollow Brook located in Poultney, Vermont. Preliminary engineering included topographic survey, a structural evaluation and review of alternatives to resolve deficiencies. The Town received grant funds from VTrans under the Town Highways and Structures program to complete the evaluation.

The evaluation included an assessment of bridge structural condition and options for rehabilitating or reconstructing abutments. Alternatives evaluated were rehabilitation of the structure including reuse of one or both of the abutments with construction of a new deck, and bridge replacement.

Due to geometric constraints and structural conditions of the existing abutments, replacement of the structure with a new precast arch bridge structure was recommended as the most cost effective solution.

KEY FEATURES

- DG worked with Town and State officials to secure grant funds for preliminary and final design engineering
- Identified most cost effective solution to resolve deficiencies
- New, wider structure will improve traffic safety
- Construction challenges include traffic control and a potential 10 mile detour as a temporary bridge is not feasible.

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