



PARTRIDGE BRIDGE OVER PEMAQUID RIVER

Bristol, ME

CLIENT

Town of Bristol
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PROJECT COMPLETION

July 2008

DESCRIPTION

The Town of Bristol was seeking a feasibility report to evaluate the issues surrounding the replacement of the Partridge Bridge on Benner Road.



The existing steel beam and concrete deck bridge was supported by dry laid granite block abutments and a combination of fieldstone and granite block wingwalls. The bridge deck measured 18 feet wide overall and spanned 16 feet and was located at the foot of a steep (16%) grade and near a sharp corner which limits the available sight distance.

The Town purchased a new, 24-foot-wide, pre-fabricated steel superstructure and sought to have substructures designed that would allow for support of the new bridge and an increase of the roadway grade by roughly 3 feet. CLD completed the Feasibility Study to investigate options for incorporating this structure into the project site. As a result of our investigations (geotechnical, environmental, structural), it was recommended that the existing stone walls be replaced with new, wider, taller, cast-in-place concrete walls and that the existing 16-foot-span length be retained.

Considerable effort was necessary to shepherd the project through the environmental permitting requirements, due to the area surrounding the bridge having a Significant Wildlife Habitat, wetlands of special significance and sensitivity for archeological features.

- Preliminary Bridge Feasibility Study
- Roadway Improvements
- Final Bridge and Roadway Design
- Environmental Permitting
- Final Plans and Contract Documents
- Construction Administration and Observation