



# BROOKLYN STREET BRIDGE OVER ROARING BROOK Northumberland, NH

## CLIENT

Town of Northumberland  
3 State Street  
Groveton, NH 03582  
(603) 636-1450  
Contact: Lorna R. Aldrich, Town  
Manager

## COST

Total Project Cost: \$1 Million

## PROJECT COMPLETION

Fall 2009

## DESCRIPTION

This NHDOT Municipally Managed Bridge Aid Project consists of the replacement of the Brooklyn Street Bridge over Roaring Brook, which is located in the Groveton section of Northumberland, New Hampshire.

The Roaring Brook currently bypasses two existing culverts and has washed out the roadway embankment. The road has been closed for many years due to this seasonal problem. During the Engineering Phase, a hydraulic analysis was performed to determine alternate structure locations and sizes. A bridge type study was produced to evaluate alternatives including a precast concrete arch, precast concrete beams, and a timber bridge. It was determined that 50-foot precast prestressed concrete slabs will be the most cost-effective option and will not adversely affect the existing roadway profile. Also, approximately 500 feet of roadway embankment will have to be reconstructed.

CLD's responsibilities included an engineering study, survey, right-of-way, hydraulics report, conceptual, preliminary and final design plans, utility coordination, cost estimates, Town coordination and meetings, public participation, environmental documentation and construction services.



- Engineering Study
- Survey
- Right-of-Way
- Section 106 Cultural Resources
- Hydraulics Report
- Conceptual, Preliminary, and Final Design Plans
- Utility Coordination
- Cost Estimates
- Public Participation
- Environmental Documentation and Permitting
- Contract Plan and Document Preparation
- Construction Services