

# Connecticut River Watershed Council

## Flood and fish friendly stream crossing on Page Rd. North Branch Oliverian Brook, Haverhill, NH



*Before – perched & undersized culvert pipes*



*After – 40 foot span bridge installed summer 2016*

**Site description:** The North Branch of Oliverian Brook is roughly 5 miles long and flows into Oliverian Brook near the Lime Kiln Rd. and Rte. 25 intersection. Several small streams feed into the North Branch, including Titus Brook in the White Mountain National Forest. Oliverian Brook, a direct tributary to the Connecticut River, is roughly 13 miles long.

**Problems/History:** In 2013 CRWC and Trout Unlimited identified the undersized, perched culverts as barriers for fish and other aquatic organism passage. In addition, the side-by-side culverts restricted high water flows and the streams ability to move sediment and debris downstream. The Town of Haverhill agreed to pursue removal and replacement of the aging culverts.

**Objective/Method:** To allow fish and aquatic passage, while improving flood resiliency (designed to pass 100 year storm events) and sediment transport. The completed project opens up 20 miles of stream on the North Branch, Titus Brook and Oliverian Brook – all of which support native brook trout populations.

**Partners/Roles and Funders:** The Connecticut River Watershed Council (River Steward Ron Rhodes, project manager) partnered with the Town of Haverhill (owner/funding contributor), Trout Unlimited (staff and Greater Upper Valley chapter), U.S. Forest Service – White Mountain National Forest (in-kind donation of temporary bridge to keep road open), Horizons Engineering, Chief Bogie Excavation, Saffo Concrete, ADM Bridge Company, and all the neighbors on Page Rd.

CRWC received funding for this project from the New Hampshire Charitable Foundation's Upper Connecticut River Mitigation and Enhancement Fund, the Town of Haverhill, the National Fish and Wildlife Foundation, the State of New Hampshire Moose Plate Conservation grant, Trout Unlimited's Embrace-A-Stream grant (via the Greater Upper Valley chapter), and the U.S. Fish and Wildlife Service.

**Cost:**

Engineering Design, Permitting & Oversight – \$63,152

Construction, Bridge & Installation – \$179,890

**Total = \$243,042**