PROJECT PROFILE

Village of Northport Stormwater Reduction Project

Client: The Watershed Center
Grand Traverse Bay

Location: Northport, MI

Service Areas: Green Infrastructure & Sustainability
Civil & Water Resources Engineering

Services Provided: Site Visioning
Planning & Design
Public Outreach
Construction Documentation

Project Activities

The Drummond Carpenter team integrated green infrastructure into a downtown streetscape design to reduce stormwater runoff and pollutant loading into Grand Traverse Bay. A public engagement process was utilized to determine and meet community aesthetic and maintenance performance goals in addition to key stakeholder input from the Northport DDA and local business owners.

Stormwater design was integrated with improvements for pedestrian mobility and a unified aesthetic vision for the downtown. Handicap ramps, crosswalks, improved streetlighting as well as aesthetic additions of decorative brick and street trees were coordinated within this project. The green infrastructure design includes street tree boxes and underground stormwater infiltration chambers. Numerous proprietary and innovative systems for dealing with stormwater were incorporated for a cohesive runoff management strategy. The project was complicated by the lack of an existing pipe network, work within the Michigan Department of Transportation right of way, and a construction schedule that did not interfere with local street fairs or impede seasonal tourism. However, the project was both on time and on budget.

Outcomes

Downtown Northport received an innovative stormwater management design that addressed both stormwater issues and improved streetscape aesthetics. In the process of this project, private partners joined the stormwater management efforts resulting in a separate complimentary project for downtown businesses. The final project included complete construction document (CD) set, construction specifications, and a bid package. Drummond Carpenter maintained regular communication with the construction management and no field modifications were required.