



PROJECT PROFILE

Village of Northport Stormwater Reduction Project

Client: The Watershed Center Grand Traverse Bay

Location: Northport, MI

Service Areas: Green Infrastructure

- Techniques:**
- Permeable Pavement
 - Street Tree Box Filters
 - Underground Infiltration Basins
 - Graphical Renderings

- Services Provided:**
- Site Visioning
 - Planning and Design
 - Public Outreach
 - Construction Documentation



Project Activities

The Drummond Carpenter team integrated green infrastructure designs in a downtown streetscape 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 stormwater reduction goals set forth by the client. Community input informed the project design in order to create a more pedestrian friendly and aesthetically pleasing streetscape for the village downtown business district.

The green infrastructure design includes street tree boxes, infiltration beds, and interconnected concrete porous pavers. 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 adjusted because of tourist season.

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.