



**DRUMMOND
CARPENTER**
engineering + research

PROJECT PROFILE

Clinton River Watershed Council WaterTowns

Client: Clinton River Watershed Council

Location: Clinton River Watershed, Michigan

Service Areas: Green Infrastructure & Sustainability

Services Provided: Community Planning
Hydrologic Modeling
Graphical Renderings
Conceptual GI Design

Project Activities

The Clinton River Watershed Council (CRWC) is a non-profit organization whose mission is to protect, enhance, and celebrate the Clinton River watershed. Drummond Carpenter staff executed every aspect of this in progress multi-year project (2014 – 2020) to provide conceptual green infrastructure site designs for downtown and municipal areas of community partners in support of the CRWC WaterTowns program (funded by the Erb Family Foundation).

Drummond Carpenter staff worked with municipal leaders and CRWC to determine key locations within the communities and then developed conceptual site designs include community specific green infrastructure (GI) improvement recommendations (such as rain gardens, porous pavement, bioswales, etc.) along with community place making suggestions (such as gathering spaces, trails, etc.). The site designs consisted of artistic renderings of the GI improvements and illustrative site plans. The renderings and illustrative site plans have been critical in communicating the vision to the partners and securing community acceptance. They were accompanied by hydrologic modeling calculations of stormwater volume retained on site and a general cost estimate for construction and maintenance. This aided community leadership to prioritize and fund GI improvements.

Outcomes

Each community received a final report and public presentation, two mounted graphic display boards, and spreadsheets for computing GI cost and hydrologic performance should they desire to modify design inputs. To date, conceptual GI designs have been provided to over twenty communities and a majority of the communities have implemented at least one recommended GI improvement within two years after participating in the program.

