



PROJECT PROFILE

Green Infrastructure Design for Big-Box Retailer

Client: Private

Location: Wisconsin, Michigan & Ohio

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

Services Provided: Site Visioning
Graphical Rendering
Community Planning
Civil Site Design
Technical Specifications

Project Activities

Drummond Carpenter served as a sustainability and green infrastructure technical consultant for a private Midwestern based “big-box” retailer. There were three primary tasks associated with the project. The first was to update corporate civil site design construction templates to include green infrastructure design details and technical specifications. The second was to draft a corporate green infrastructure guidance manual for the internal planning teams to decide on whether GI was feasible early in the site planning process. Finally, Drummond Carpenter demonstrated the use of the new templates and guides by recommending specific green infrastructure techniques for new store constructions in Wisconsin, Michigan, and Ohio including the design and implementation of porous pavers, bioswales, and bioretention cells.

Outcomes

Deliverables included the development of a green infrastructure design and maintenance manual, green infrastructure site suitability evaluation forms, and typical construction design details for infiltration-based design techniques including bioretention cells, bioswales, infiltration basins, and porous pavement. In several locations, the recommended conceptual designs were advanced to final design stages for site implementation.

