GOOD NEIGHBOR TRAIL

TRANSIT-ORIENTED DESIGN & PLANNING

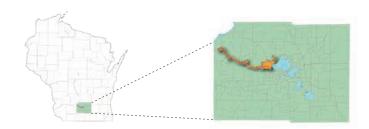
Middleton, WI

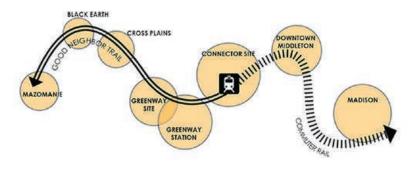
AFFILIATION: University of Wisconsin, City of Middleton

CLIENT: City of Middleton

CONTRIBUTION: Individual Capstone Project

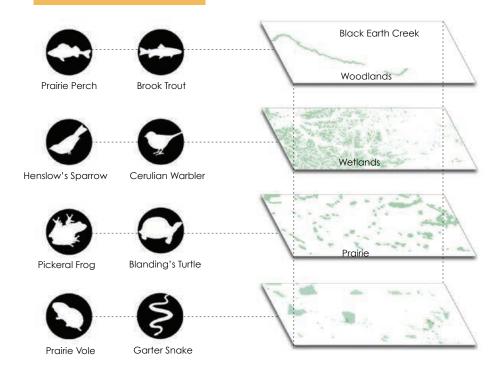
MEDIA: GIS, Illustrator, Photoshop, AutoCAD, SketchUp



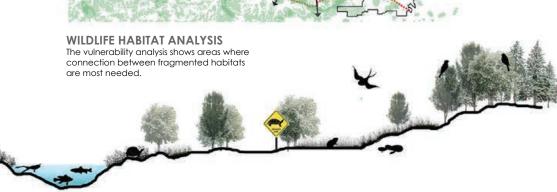


This Senior Capstone Project examines the Good Neighbor Trail (GNT), a proposed multi-use trail that extends through western Dane County, and examins design solutions at varying scales. The project includes regional analysis, master planning, site design and technical site details. The regional aspect of this project focuses on enhancing connectiveity throughout the corridor in terms of transportation systems and landscape ecology. Proposals also emphasize enhancement of recreational opportunities by creating nodes of interest along the proposed corridor.

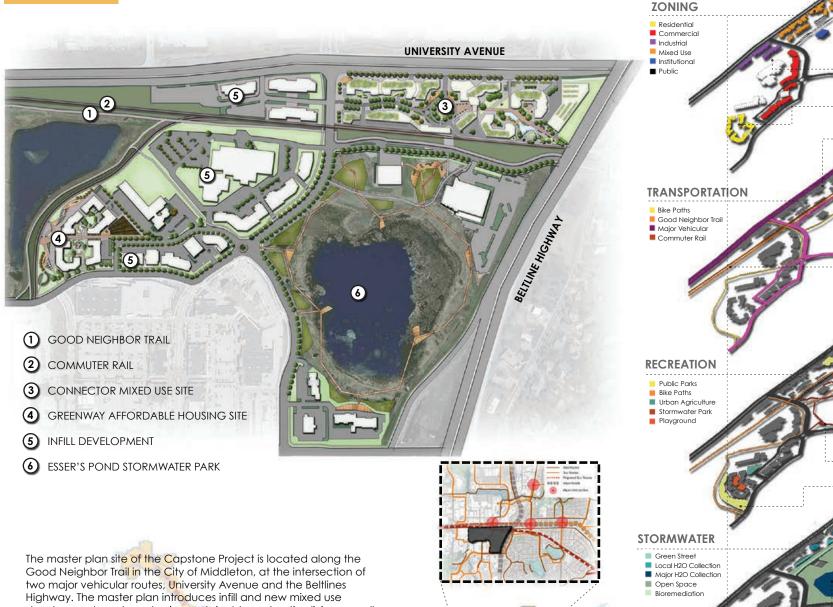
REGIONAL ANALYSIS







MASTER PLAN



Good Neighbor Trail in the City of Middleton, at the intersection of two major vehicular routes, University Avenue and the Beltlines Highway. The master plan introduces infill and new mixed use developments and emphasizes sustainable and active living as well as transit oriented development. The plan consists of the design of two sites, the Connector site and the Greenway site, which are connected by both the Good Neighbor Trail and a proposed commuter rail corridor that both serve to enhance connections to the greater region. Other features include a commuter rail station, a park & ride, an extensive stormwater collection system, a stormwater park, community garden spaces and a sculpture park.

- INFILLL

GOOD NEIGHBOR TRAIL • SCULPTURE PARK

-STORMWATER

BOARDWALK
- COMMUNITY
GARDENS

-UNDERGROUND

STORAGE

- DETENTION

- RETENTION

POND

POND

- AFFORDABLE HOUSING - COMMUTER RAIL

SITE DESIGN

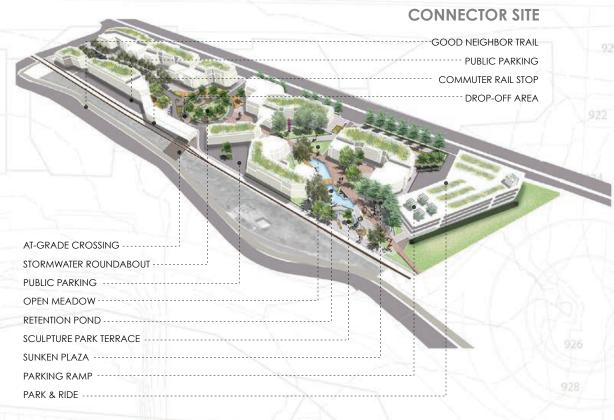


CONNECTOR SCULPTURE PARK



GREENWAY COURTYARD

Two different sites were selected in the master plan for specific design development. Together, the sites emphasize walkability, multi-seasonal active and sustainable living, and facilitate multi-modal transportaion. The Connector site is designated as a mixed-use area with emphasis on transit-oriented design, housing both a commuter rail station and a park & ride, and penetrated by the GNT. The aesthetic of the site reflects the local industrial history and the planting scheme is symbolic of the region's native ecological communities. The Greenway Site is a proposed affordable housing development that emphasizes community health and social capital, providing sustianable living and communal spaces including areas for urban agriculture and natural play.



GREENWAY SITE



SITE DETAILS

Site details were developed for the Connector Site, including a stormwater plan and calculations, a grading plan, a planting plan and construction details. The proposed grading of the site utilizes existing topography to create three terraces parallel to the Good Neighbor Trail. In each level there are stormwater management strategies implemented that harvest every drop of water and stores the water on site in retention ponds or underground storage devices. Bioswales and other planting areas consist of phytoremediating plants which serve to cleanse rainwater that will eventually be staged on site and reused. Additionally, porous paving is utilized in some paved areas to enhance infiltration.

