

## Moorland Reserve

NEW BERLIN, WISCONSIN

The Moorland Reserve development is a 35-acre medical office park in New Berlin, with bike and pedestrian trails along with public roadway and utility infrastructure improvements.

Services provided by Sigma include:

### Roadway Design

Prepared design for the reconstruction of Beloit Road (CTH I) from a rural section to an urban roadway section; expanded Moorland Road (CTH O) from four-lanes to six-lanes through the project limits. Project also included reconstruction of the Moorland and Beloit Roads signalized intersection along with temporary signal plans and a new signalized intersection on Moorland Road at the Target drive entrance. Design was based on WisDOT FDM standards including, plan and profile sheets, cross-sections, construction staging traffic control plans, pavement marking and signage plans.

### Civil/Site Engineering

Prepared overall site planning and engineering involving master grading, internal access road, drainage facilities, erosion control, public and private utilities, lighting, retaining walls and landscaping.

### Storm Water Management

Coordination, negotiation, alternative analysis, permit application with approval and construction coordination to meet the WDNR Chapter 30 permit requirements. Prepared stormwater management plan involving three wet detention ponds to control quantity and quality of discharge to Calhoun Creek, floodplain and adjacent wetlands.

### Surveying

Prepared base mapping of overall site for right-of-way dedications and utility easements. Conducted property staking and construction layout.



### Wetlands & Endangered Species

Delineated wetlands based on existing mapping and field determination in agreement with WDNR and USACE. Established boundary of delineated area for endangered snake species in agreement with WDNR.

