

Macomb Corners Park – Phase II

Macomb Township, Michigan



The Township of Macomb selected a 94-acre parcel along 25 Mile Road within Section 4 upon which to build the Township's second park. Known as Macomb Corners Park, this facility offers a variety of venues for athletic events. Football, soccer, and baseball fields, as well as an in-line skating arena, offer Township residents many options.

Spalding DeDecker

Associates, Inc. (SDA) has been Macomb Township's Engineering consultant since 1964 and has acted in all capacities as the Township's Engineering Department since that time. SDA was selected to perform a topographic survey and hydraulic study to establish the base flood elevation, as well as a floodplain and floodway boundary for the proposed 94-acre community park located within an unstudied flood zone.

Unique features of this park property include two county drains (McBride and Thoel) located within the property's boundaries. Three pedestrian bridges and one vehicular bridge, which extend over the McBride Drain, are being incorporated into the parks features.

The McBride Drain and Thoel Drain are unstudied drains within the boundaries of the park. Due to the nature of the park improvements, it was necessary to identify the extents of the existing floodplain and floodway and the effects the park improvements would have on them. The project combined aerial topography with actual field investigations to identify the physical characteristics of the drain and surrounding topography. This data was incorporated into hydraulic modeling software to establish the base flood elevation and floodway. Site improvements were modeled in the software to verify that they would not generate an increase in the base flood elevation.

Flow volumes for the drains were established by utilizing data provided by the Michigan Department of Natural Resources and Environment (MDNRE) and hydrologic modeling of the watershed, which included evaluation of the existing land use and soil characteristics.

The project included coordination with the park Architect to assist in determining the compensating cut and fill and wetland mitigation to obtain a MDNRE permit for park improvements.

OWNER / CLIENT

Township of Macomb

PROJECT START - END

June 2006 - Ongoing

SDA PROJECT NO.

MA07-007