

PROJECT Profile

INFRASTRUCTURE ENGINEERING

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Jamian Drain Improvements

West Bloomfield Township, MI

Improvements to the Jamian Drain, a legally established drain under the jurisdiction of the Oakland County Drain Commissioner (OCDC) are required. The Jamian Drainage District, part of the Pebble Creek Subwatershed, is located within the north-west branch of the Main Branch of the Pebble Creek Subwatershed Drainage District. The district is located in the southwest 1/4 of Section 34 of West Bloomfield Township, Oakland County, Michigan.



The project involves streambank stabilization, the restoration of sediment basins and reshaping of an existing meandering drain through a residential area. The project will include permitting from MDEQ and local jurisdictions and public involvement from residents along the drain route.

Spalding DeDecker Associates, Inc. (SDA) will be responsible for providing engineering design and construction services.



The Preliminary Design for the Site Improvements Phase will evaluate the existing conditions, including erosion, sedimentation, and in-stream habitat, and then develop project concepts and alternatives that will enhance the peak flows characteristics of the channel and improve water quality. As a part of the preliminary design, SDA will facilitate stakeholder input and follow-up sessions to educate and solicit input on identifying specific design improvements. Incorporating input from the stakeholders (Pebble Creek residents) and their education of the importance

OWNER

Jamian Drainage District

CLIENT

Oakland County Drain Commissioner

PROJECT START - END

09/2004 - 03/2005

PROJECT COST

\$500,000

SDA KEY PERSONNEL

David W. Bluhm, PE
Michael F. DeDecker, PS
David A. Lakin, PE
Gregory S. McCaffery, PE
George M. Platz, PS

SDA PROJECT NO.

OD04101

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for vegetation and stream habitat, and their long term relationship to reduced flooding, drain/ detention basin maintenance and increased property values will be critical in this segment of the design solution. Additionally, preliminary approval by the required State and local agencies will be acquired.

The Final Design for the Site Improvements Phase will implement the preliminary design into construction drawings and specifications necessary to bid and construct this project. The permit submittal requirement will also be finalized.

SPECIAL FEATURES

Communication between the MDEQ and the Township will be needed because of stabilization and enhancements within the stream areas that will be necessary, with a focus on enhancing water quality within the stream area, providing habitat for macro-invertebrates, fish and wildlife, and providing recreational interpretive use opportunities as a part of the overall project.