

PROJECT Profile

INFRASTRUCTURE ENGINEERING

MUNICIPAL ENGINEERING CONSULTING

Pontiac Lake Low Pressure Sanitary Sewer Extension

White Lake, MI

For years the Michigan Department of Environmental Quality has been documenting failed residential septic systems, many of which were installed decades ago in this waterfront neighborhood. These older, failing systems are located immediately adjacent to Pontiac Lake, an active water sports lake in this largely residential community.

The project design engineer and project coordinator, **Spalding DeDecker Associates, Inc. (SDA)** completed plans and specifications for the process of contractor selection for this much needed project. This sewer improvement project, which has been several years in the making, is necessary to maintain water quality in Pontiac Lake, an actively used lake for area residents.

SDA designed a public sewer system that uses individual grinder pumps in an enclosed chamber and buried underground at each home site to replace the traditional tank and field systems. These enclosed underground systems will pump sewer flows into small diameter, shallow sewers located in the Pontiac Lake roadways. These pipes, in turn, lead to a conventional treatment plant for processing. State of the art directional boring eliminates the need to open trenches in the roadway areas to install the piping system. Upon completion, the individual grinder pump systems and piping will be maintained by the Oakland County Department of Public Works.

Pending Township Board and funding approval, construction of the project would begin as soon as October for installation of the piping systems within the street areas. It is projected that the installation of the individual grinder pump systems will begin in May or June of 2003 for the failing systems. All individual systems will be installed and operational by October 2004.

The construction project will connect approximately 430 homes directly to a public sanitary sewer system, eliminating the need for septic tank and field systems, many of which are failing.

SPECIAL FEATURES

State Revolving Fund (SRF) Program — This funding mechanism has been made available to the project primarily due to the failing septic systems in the lake community.

OWNER / CLIENT

Charter Township of White Lake

PROJECT START / END

9/2001 - 10/2004

CONSTRUCTION COST

\$4.6 Million

SDA KEY PERSONNEL

David A. Lakin, PE
Jack Patel
David W. Bluhm, PE

ROLE ON PROJECT

Project Design Engineer
Project Coordinator

SDA PROJECT NO.

WH01003

