

RELATED EXPERIENCE

CHARTER TOWNSHIP OF MERIDIAN GIS AND CMMS UPDATE

Johnson & Anderson was retained by the Charter Township of Meridian to update and enhance the Township's existing GIS application and Computer Maintenance and Management System (CMMS) through a systematic approach involving structured data corrections, enhancements, and applications to fully establish these systems as the core business platforms for the Department of Public Works and Engineering Services.

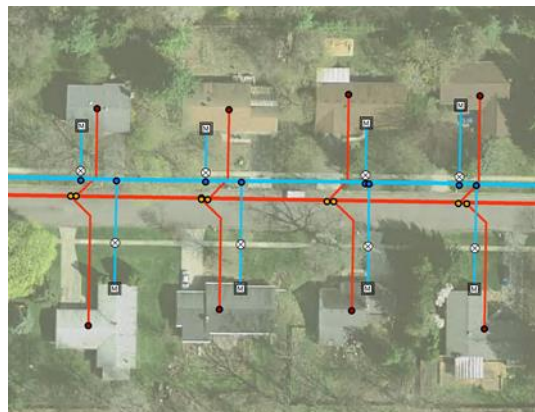
Location:	Okemos, MI
Construction Date:	2015
Construction Cost:	\$64,300
Client:	Meridian Township
Contact:	Mr. Ray Severy, Director (517) 853-4000

J&A created approximately 12,000 water and 12,000 sewer leads into water and sewer lead GIS layers, respectively. The leads serve as a vital link for GIS parcels to water and sewer infrastructure. The leads are populated with information that includes the billing account number, address, billing address (if different),

lead diameter, material, and date of installation. Future projects could include lead creation and data incorporation for shopping malls and irrigation vaults as well as integrating water consumption and sewer usage through information obtained from the Department of Public Works Utility Billing software application.

J&A reviewed and standardized Township database source information for street names to be imported into software applications that include GIS, Cityworks CMMS, Neptune Insight, and BS&A.

J&A then reviewed, cleaned up, standardized and incorporated the existing Access database containing hyperlinks for the Township's scanned water and sewer cards to link a thumbnail type view of these drawings to the leads created in GIS.



The second phase of this project involves enhancements to the Township's CMMS Program, Cityworks for water and wastewater infrastructure. The scope of work includes:

- The addition of default values, names, and other information where applicable, to reduce work order creation time and to ensure greater accuracy;
- Review of current service requests, tasks, and work order methodology to facilitate revision and restructuring of these activities for an improved user interface. This will improve operational efficiency and provide for better data for analysis;
- Upgrade to the latest version of ArcGIS Server Workgroup (10.2.2);

RELATED EXPERIENCE

- Upgrade to Cityworks 2014 to help resolve Equipment, Labor, & Material (ELM) issues;
- Develop methodologies to make commonly used ELM lists easily selectable;
- Development of Cityworks Storeroom for water and wastewater related inventory, including methodologies for staff to use and implementation of Storeroom. Example inventories will include such items as water meters, repair clamps, and valve boxes;
- Review of existing fleet Work Order (WO) and management system, development of Cityworks Fleet Management data model and work order templates, and development of data migration methodology from the existing WO system to the new Cityworks model;
- Review and development of Cityworks Storeroom integration into the new Cityworks Fleet Management WO model; and
- Review and integration of the Township's existing fuel management system into the new Cityworks Fleet Management WO model to provide the capability of automatically executed WOs on metrics such as miles driven or hours operated.

The flow chart below summarizes the project outline:

