Coordinate PA Maintenance and Development, Pennsylvania One Call System Inc.

The Philadelphia Streets Department (the Department) is responsible for the managing, maintaining and regulating the City's vast network of streets, roadways, and associated public right-of-way. To connect organizations that need to excavate City streets to install or maintain their infrastructure, the Department implemented its Guaranteed Pavement Information System (GPIS) in 2000 using a Visual Basic and ArcObjects based solution deployed via a Citrix environment. In 2015, the City hired JMT to rewrite the legacy GPIS to be web-based and to enhance existing functionality to meet current and future system workflows.

Project Highlights:

✓ Web based GIS application allowing communication and coordination between relevant parties

✓ Cost savings through the reduction/elimination of the need to schedule face to face coordination meetings

✓ Sharing of costs by project and facility owners by coordinating projects for a "dig once" approach versus disturbing pavements multiple times.

✓ By utilizing the Coordinate PA software, project owners can reduce violations and enforcements by the Pennsylvania Public Utilities Commission.

Tools and Technologies:

✓ Microsoft .NET Core

✓ AngularJS

✓ Restful JSON Web Services

✓ Microsoft SQL Server

Services:

✓ Business Analysis

✓ Data Services

✓ Application Development

✓ GIS Design, Analysis, & Implementation

Coordinate PA is a web service application developed to support public work and utility project planning and coordination within the Commonwealth of Pennsylvania. The GIS based application enables project owners to coordinate their projects with other project owners, designers, excavators, and facility owners with the goal of maximizing the benefits of shared costs through ongoing efforts to prevent damage to underground facilities in support of the Pennsylvania811 program. The 811 program was created to implement the Underground Utility Line Projection Law (aka the PA One Call law).

The Coordinate PA application provides the ability to identify overlapping geographic areas that can be queried for within specified timeframes thereby identifying collaboration opportunities. Coordinate PA enables users to add and/or import existing projects, coordinate opportunities with others who want to collaborate, share project communications with designated contacts, and notify facility owners at any stage of a project.

JMT's work on the Coordinate PA software includes its initial development as well as the ongoing maintenance and support of the product through an annual operations and maintenance contract. Additional work includes enhancements have included the addition of reporting functionality completed as well as the development of an API to enable third parties to transfer files between their applications and Coordinate PA.