

# Application Spotlight

## Neighbourhood Facility Upgrades

**JOB SCOPE:** In the summer of 2016, Maverick Inspection provided secondary utility locates for a large scale horizontal directional drilling (HDD) project. HDD was used to upgrade/replace all of the old steel gas lines for an entire trailer park. Maverick's role was locating all of the private communication and power lines that were owned by the trailer park operators and not by the facility providers. The age of the neighbourhood meant that no proper records were available for the excavators or locators. These private, or secondary, utility locates are one of Maverick's areas of specialization.

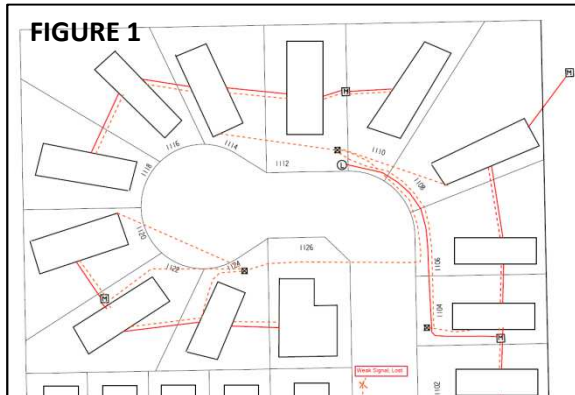


Figure 1: An example of the drawings that were able to be delivered showing the private power, phones lines, street lights and cable.

**DATA COLLECTION:** Maverick worked with the stakeholders, including the HDD companies and site supervisors to create a custom work schedule. This involved timing each portion of the locate work with the drilling activities. Communication of the scheduling and results was coordinated through Maverick's office and field technicians.

The vast scale of the job stretched the job scope into several months of work with Maverick technicians being onsite 8 hours a day 3 days a week. The constant pace allowed the drillers to continue work without being interrupted or worrying about having locates in time.

**RESULTS:** Maverick was able to place all the facility locations on a PDF drawing originally provided by the drilling company. This created an entire map of the neighbourhood that could be provided back to the community board upon request for future reference. With additional Real Time Kinematics and Robotic Total Station technologies, Maverick can plot these into GIS files and CAD format. Additional technology such as Ground-penetrating Radar can be used to add more subsurface features for engineering or geophysical determinations.



Figure 2: An example of taking the collected data and plotting it in programs such as Google Earth that can be accessed with mobile devices for onsite prints available 24/7.

**CONCLUSION:** Upon conclusion of the project there were zero damages to any of the live private facilities on the site. This allowed for the project to be completed on budget with minimal work stoppages. In the end over 500 properties and 1000 services were located.