



GIS Data Conversion Verification and Correction

Client

Mid-sized Natural Gas and
Electric Company

Location

California

Background

A mid-sized natural gas and electric provider in the western US had recently completed a GIS conversion from paper to electronic. Upon receiving converted data, they quickly realized that their facilities were not correctly mapped in their GIS system of record. Some of the issues found were facilities mapped on the wrong side of the road or not mapped at all.

Scope

- G2 Integrated Solutions was retained to locate and map all underground and above ground gas facilities and a specific area of the provider's electric assets. There was land base maintenance as well in smaller areas where there was no spatial land base data.
- G2-IS used 6-8 locating crews outfitted with Metrotech locators to work in from of GPS collectors and mark the facilities.
- GPS collectors would use Trimble Mapping Grade GPS units for collection of facilities.
- GPS collectors would have a database of meter numbers, valve numbers and pole numbers with them to reference and input data into GPS unit.
- Survey grade GPS was utilized for essential valves and more system critical collections. Survey grade was also used in land base correction along with mapping grade street centerline surveys.

Results

With this completion, the utility company now has a complete GIS database that is 100% GPS verified and accurate. This includes all service lines and meters. G2-IS continues to develop techniques to increase accuracy in leak survey inspections and other field related work, allowing them to accurately send responders to their assets in case of emergencies. By using the meter numbers during collection, the operator was able to easily link to their GIS system for real time load readings making their modeling even more accurate.



FIELD ASSURANCE

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