



UTILITY DESIGNATING & LOCATING/SUE

Part of a diversified family of solutions

jmt.com





Services

Records Research

Data Management

Utility Locating

Utility Designating

Surveying

About Us

Johnson, Mirmiran & Thompson (JMT) is a multidisciplinary engineering, architectural, and related services firm serving clients throughout the United States since 1971.

Our subsurface utility designation and locating department provides clients with the invaluable knowledge of the impacts that existing utilities may have on their projects.

Accurately identifying the locations of utilities early in the design phase can greatly minimize costly conflicts and delays in both design and construction. By reducing these conflicts and delays, JMT can help save money and time.



Records Research

JMT carefully conducts records research of all utility companies, government agencies, and other service providers that may have facilities within the specified project limits. Information obtained may include the size, type, and material to be expected, as well as age, depth, profiles, and proprietorship of the utility.

The research phase is the important groundwork for all designating and locating tasks, and JMT has experienced, skillful researchers in charge of conducting this pursuit and evaluating the information obtained.

JMT has experienced and skillful utility technicians in charge of locating and evaluating information.



Data Management

JMT can record acquired utility location information onto plans, photography, or topographic mapping using MicroStation or AutoCAD, along with any CADD file standards, including feature tables, parameter files, font libraries, cell libraries, and color tables. JMT will then electronically transmit all design files of the utility designating and locating, and any additional files used in the surveying of the utilities.



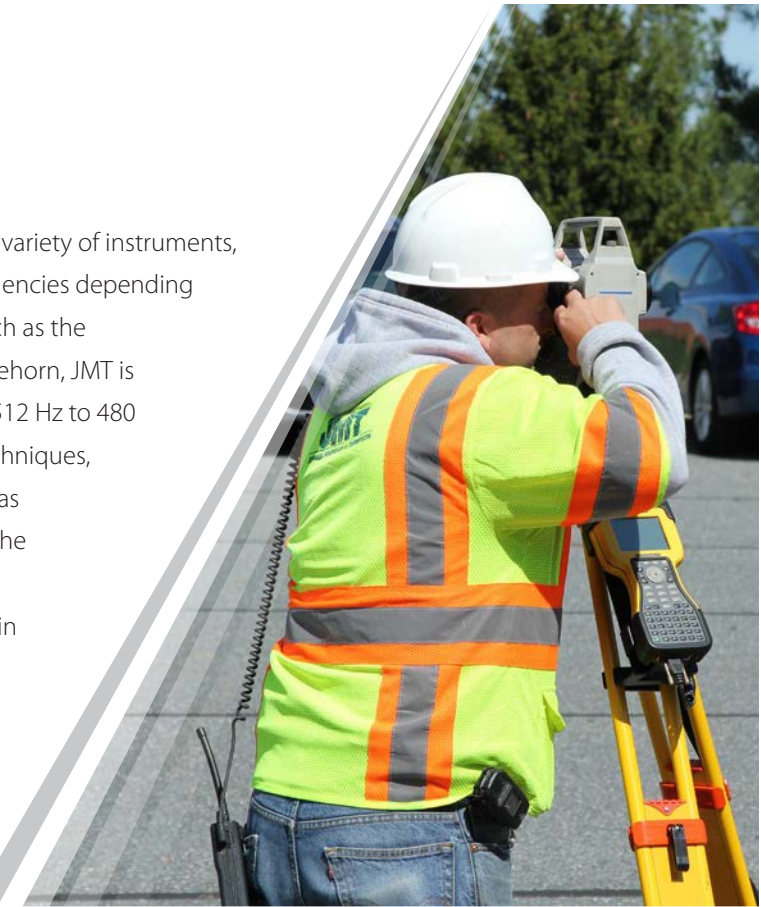
Utility Locating

Utility locating consists of verifying the horizontal and vertical location of underground utilities using air-vacuum excavation methods, including our VacMasters System 4000 and Excavac trucks. We always contact the state on-call center prior to any digging.

Using air-vacuum techniques, we excavate a 12-inch hole to expose the entire utility. Once exposed, the top of utility elevation is surveyed, and the following information is typically obtained: horizontal and vertical location of utility; elevation of existing grade over utility at the test hole; dimensions of utility; type of utility; surface covering thickness; and overall condition of utility. A color-coded tape is placed in the hole with a temporary surface marker over the centerline of the utility. The test hole is backfilled with the excavated material, and the surface is restored and patched to local governing agency specifications.

Utility Designating

Utility designating, the surface locating of utilities, entails the use of a variety of instruments, most of which are radio signal-based and can be set to different frequencies depending upon utility type and location. With our wide array of instruments, such as the Radiodetection 4000, MetroTech 810 & 9890, Subsite 950, and the Pipehorn, JMT is able to locate almost any existing utility at frequencies ranging from 512 Hz to 480 kHz. The designating phase incorporates geophysical prospecting techniques, including electro-magnetic, magnetic, sonic, and resistivity methods, as well as ground penetrating radar, to horizontally locate utilities. With the combination of utility records, state-of-the-art instruments, and an experienced staff of locators, JMT accurately identifies all utilities within the project limits.



Surveying

Each utility is surveyed immediately after completion of the designation and location, providing quick and accurate plotting of utilities per specified CADD platform. No time is lost waiting for a survey crew to arrive at the site, since all surveying is done on location by the utility crew.





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Offices strategically located throughout the United States

