VIKA GEOMATICS AND SURVEYING
The Leading Edge
in Techniques and Technologies

VIKA GEOMATICS employs the latest techniques and technologies, including 3D High Definition Scanning (HDS), Automated Monitoring, GIS, Real Time Kinematic GPS, Robotic Total Stations, Building Information Modeling (BIM), REVIT, utility scanning, data collection, remote sensing, Unmanned Aerial Vehicles (UAV Drones), and conventional surveying techniques; technologies that provide you with all the project information you need in one solution - increasing accuracy and reducing time / costs.

Our highly-experienced Project Managers, Field Crews, and Office Staff are well-equipped to perform the full spectrum of land surveying services, for large and small projects alike, in an accurate and timely manner.

VIKA GEOSPATIAL INFORMATION MODELING

VIKA’s Geospatial Information Modeling (GIM) service systematically collects data and constructs digital representations of the physical and functional characteristics of land, project sites, and structures. VIKA’s GIM service harnesses the power of 3D HDS, traditional surveying methods, GIS, BIM, REVIT, and Automated Monitoring, creating a robust resource model and efficient project management tool.

DRONE SURVEYING SERVICES

By deploying a drone over a project site, VIKA can provide detailed measurements of the landforms or structures. The equipment uses georeferenced aerial images of the site allowing us to compile a detailed image-based map.

DRONE SURVEYING — QUICK FACTS

• Reduces data collection time required to produce accurate site surveys
• Geo-referenced data and imagery collected by drone can be used to build topographic maps
• Data can be compiled into 3D Digital Terrain Models
• Diverse uses that can also calculate stockpile volumes and quantity objects on site

PHOTOGRAVEMETRY SUPPORT SERVICES

VIKA provides and coordinates all required horizontal and vertical control points for aerial mapping. In addition, VIKA provides supplemental detailed spot elevations in order to “ground-truth” limited specific areas to help identify problems. We will indicate the as-built/existing site conditions and existing utilities around points of connection to supplement the aerial mapping information. We will establish a vertical datum utilizing existing survey control monuments, utility as-builds, design drawings, or combinations thereof.

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3D HIGH DEFINITION SCANNING SERVICES

VIKA’s 3D HDS provides projects with greater survey detail and design flexibility than is possible with conventional survey methods—which saves time and cuts costs. The speed of laser data collection makes HDS ideal for capturing construction conditions, modeling, monitoring, progress reports, as-builts, and future reference.

3D HDS — QUICK FACTS
- Produces indispensable reference data and models for designs, as-builts, existing conditions, legal exhibits, asset management, and development/engineering applications
- Protocols and processes for measuring and recording point data are extremely quick and accurate—improving precision and reducing human error
- High-density data points enable you to view and manipulate a true 3D scanned representation of the site and/or structure
- Field crews can perform OA/OCC of data before leaving site, eliminating the need for repeat visits
- Provides a higher level of detail and additional visualization options—enhanced final deliverables, more accurate and timely design, and greater overall project value
- Captures existing conditions and high-density, survey-grade point data quickly, accurately, and safely

3D HDS — RETURN ON INVESTMENT
- Increases the number and accuracy of measurements

BIM AND REVIT MODELING SERVICES

While powerful, BIM is only as good as the information provided to the program. You can be confident that the data VIKA collects for each BIM Model is acquired with the care, precision and protocols VIKA has developed after 30 years of practice. VIKA BIM Services use 3D HDS, real-time, dynamic building modeling software, and a database of information that increases precision and productivity for your project's design, maintenance, and construction.

BIM AND REVIT MODELING — RETURN ON INVESTMENT
- Provides the ability to check for existing/proposed utility conflicts
- Minimizes development costs and identifies potential problems before they occur
- Generates vertical profiles for proposed/existing utilities and crossings
- Updates information dynamically in all project drawings—from concept to final construction phase
- Allows 3D simultaneous design for roadway horizontal layouts, profiles, and cross-sections
- Reduces potential for change orders

BIM AND REVIT MODELING — QUICK FACTS
- Checks clearances through all design process stages
- Collects, generates, and manages site and building data
- Provides a look at existing conditions and your final product
- Eliminates disconnected design process
- Acts as a visual 3D project database

AUTOMATED MONITORING SERVICES

VIKA provides automated monitoring systems that can measure the movement or deformation of walls, land masses, structures, or buildings. VIKA Project Managers provide daily communication with you or your contractors that ensures peace of mind during construction and/or demolition.

AUTOMATED MONITORING — QUICK FACTS
- Provides total quality assurance on structures that have the ability to move and cause damage or devastation to their surroundings
- Provides the ability to set up alarms to respond to any movements outside of tolerances
- Unmanned operation improves safety and lowers costs

SUBSURFACE UTILITY INVESTIGATION AND DESIGNATION SERVICES

VIKA provides and coordinates ASCE “Level B” utility investigation of on-site dry utility services to support VIKA projects and surveys. We will electronically locate, survey, and map underground utilities within the property to further the accuracy of ALTA/NSPS surveys, as outlined in item #11 of the ALTA/NSPS standards. VIKA investigates all dry utility service systems shown on record drawings received from utility companies and identified by Miss Utility in the field.

SUBSURFACE — QUICK FACTS
- Decreases construction delays
- Reduces utility relocation
- Decreases utility service loss