

# Boundary Survey & Topographic Mapping Services



Since 1880, Sewall has conducted boundary surveys and produced topographic mapping for private and commercial landowners, business and government organizations, and utilities. With vigorous quality standards for project execution and professional staff, Sewall has delivered highly accurate products using a range of technologies from conventional surveying tools to remote sensing and Global Positioning System (GPS) technology.

Sewall surveyors are currently licensed to practice in Maine and Vermont. Their survey work is supported by an experienced research staff who perform title searches, and a technical staff who collect and process survey data for drafting final plans. With over 138 years of surveying and mapping experience and 70 years of acquiring aerial imagery, Sewall maintains an extensive archive of records, maps, and photography at its headquarters in Maine.

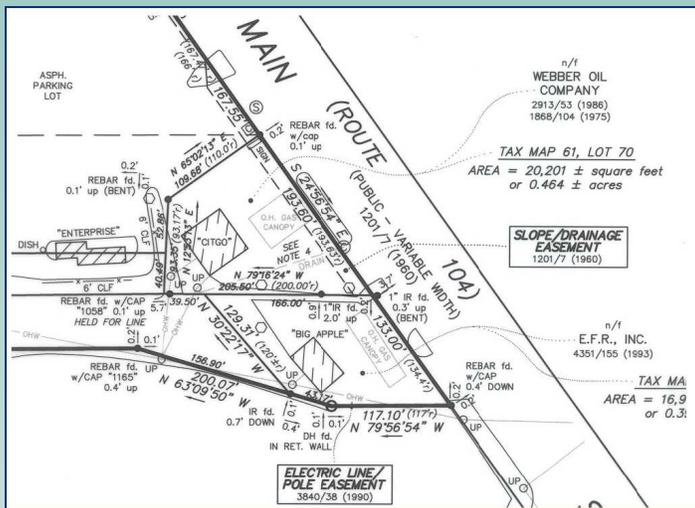
## BOUNDARY SURVEYING SERVICES

Accuracy in boundary services is a critical component for establishing proof of ownership and resolving boundary issues. Trained to use the most advanced equipment and thorough methods of property delineation, Sewall surveyors are committed to delivering highly accurate and timely service to landowners and to the businesses that support them.

To initiate a standard boundary survey, our staff carefully researches deeds and other historical records to identify previously established property lines and any easements or regulatory limitations that affect land use. In addition to county registries of deeds and other public agencies, we reference our own survey archives, which include field books, original field notes, boundary plats, boundary maps, deeds, and survey reports dating back to the 1800s.

In the field, our staff uses such tools as robotic total stations and GPS equipment to survey the property, determining parcel metes and bounds and establishing monuments at all corners. The collected coordinate data are then transferred electronically to CAD drafting software for the drafting of a property plan or map. For a boundary survey, deliverables include a written description of the property, a written report of surveyor findings, and the map, which indicates boundary lines, easements, and salient planimetric features, such as roads, bodies of water, utilities infrastructure, and survey monuments.

- Record research
- Deed analysis
- Zoning analysis
- Field data collection
- Drafting (AutoCAD)
- Report preparation
- Boundary conflict resolution
- Expert testimony
- ALTA/NSPS title surveys
- Subdivision surveys

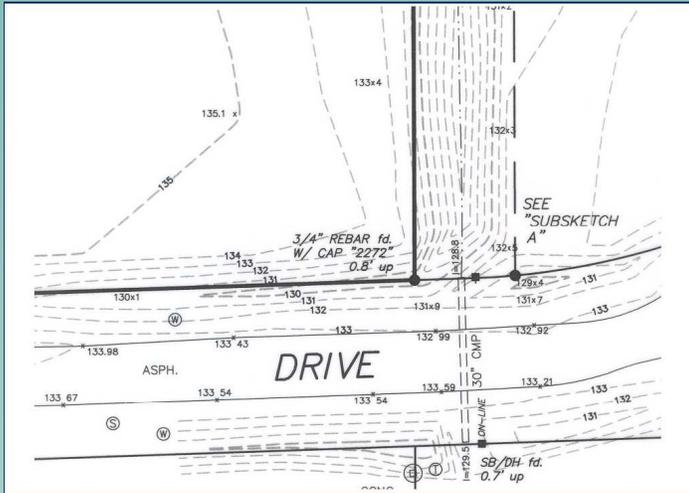


Boundary survey collected with conventional equipment showing selected planimetric detail



Rapid static GPS for controlling coastal topographic mapping

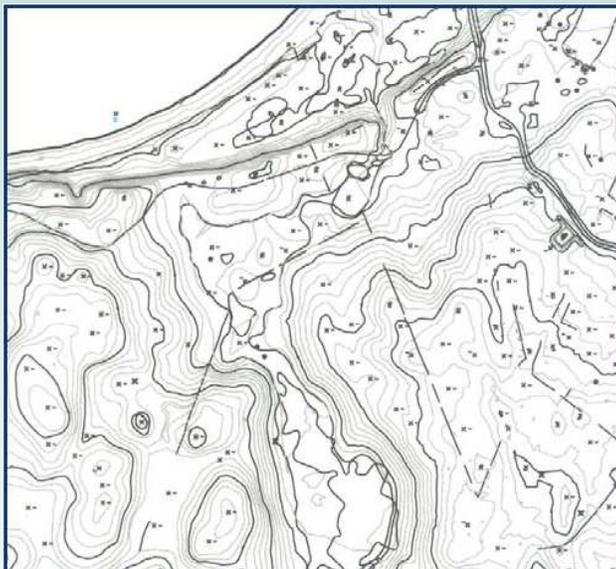
# Boundary Survey & Topographic Mapping Services



*Boundary survey collected with conventional equipment showing selected topographic data*



*Ground control target*



*Topographic mapping developed from aerial imagery and photogrammetric methods*

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800 648 4202 (toll free)

## TITLE SURVEYS

Sewall also conducts title surveys that meet the stringent standards adopted by the American Land Title Association and the National Society of Professional Surveyors (ALTA/NSPS). The ALTA/NSPS survey is generally used for large commercial properties that require title insurance and for some private landholdings. Commercial enterprises for which we have successfully surveyed are engineering firms, architects, attorneys, realtors, banking institutions, and insurance companies.

## TOPOGRAPHIC MAPPING SERVICES

To generate accurate contours for engineering site layout, route surveys, and utility mapping, Sewall uses traditional and advanced technologies, from conventional tools such as total stations to aerial imagery, photogrammetry, and geodetic-grade GPS. Using conventional tools, Sewall surveyors collect elevation and feature data in the field, which are then processed and transferred to CAD software for drafting plans.

For larger properties, Sewall acquires aerial imagery and establishes survey control in the field for the development of accurate mapping. Ground control, a set of fixed points on the ground for which precise horizontal and vertical coordinates can be determined, enables Sewall's certified photogrammetrists to position and correlate map features from aerial imagery accurately and to tie the mapping to an established horizontal and vertical coordinate system, or datum. Horizontal control surveys establish the scale of a map and its grid coordinate system; vertical control surveys define the elevations for creating contours.

Sewall brings to the mapping process over 138 years of experience using conventional survey tools and over 70 years' experience acquiring and utilizing aerial imagery to develop maps for utilities, municipal government, and the forest industry. With in-house equipment and a staff of certified photogrammetrists, GIS analysts, and mapping technicians, Sewall's surveyors draw upon extensive company resources for any given project. Sewall develops map products in a range of hard copy and digital formats, including AutoCAD, ArcGIS, and Microstation.

- Field data collection
- Engineering site layout
- Utility route surveys
- Infrastructure mapping
- Hydrographic surveying
- Drafting (CAD services)
- Flood zone determination
- Aerial imagery
- Vertical and horizontal control with GPS

 **SEWALL**  
JAMES W. SEWALL COMPANY / Since 1880