



# Land Surveying

Horsley Witten Group, Inc. (HW) feels that having surveying as an in-house service complements other engineering and wetlands services and creates a more streamlined process in completing project planning, design, and construction. Often times design engineers and other integral personnel are involved with field survey, creating a familiarity of the site conditions that result in a better, more efficient design.

HW has the ability to complete surveys for many types of projects, including: topographical existing conditions surveys for site development; wetlands delineations; permitting; planning, and feasibility studies; property-line surveys for subdivisions, easement plans, and lot stakings; construction surveys for layout and As-built drawings; Land Court surveys for lot creation and condominium registration and ALTA surveys.

In the field, HW uses total stations and state of the art data collectors which capture field information quickly and accurately. This system allows for a quick turn around between field survey and finished plan. HW is also experience in various GPS applications. RTK GPS provides the accuracy of a total station and is effectively used on larger project areas (> 40 acres).

HW also uses a submeter hand held GPS unit for gathering preliminary site information, and at times flagging wetlands. When projects are in the planning stage and accuracy is not as critical these handheld units can be a useful tool in determining feasibility.

Projects recently completed by HW that involve surveying include:

- Private Client, Village at Mashpee, MA. HW completed a topographical and ALTA survey for the 24-acre vacant parcel located in Mashpee, MA. All work was completed in compliance with the 2005 Minimum Standard Detail Requirements for American Land Title Association/American Congress on Surveying and Mapping (ALTA/ACSM) Land Title Surveys.
- EA Fish/Peabody Properties, Affordable Housing, Mashpee, MA. HW completed the following surveying tasks: topographical; construction on-call; property line; and ALTA predevelopment and final construction and as-built. HW completed all surveying for this affordable living complex of 56 units for residents over 55 located on a 7-acre parcel.
- Private Client, Residential Development, Scituate, RI. HW completed a topographical, property line, and wetlands survey for the development of this 40-acre parcel.
- EA Fish/Peabody Properties, Housing Redevelopment, Framingham, MA. HW completed a topographical, property line and ALTA survey in preparation for redevelopment of this urban property.
- EA Fish/Peabody Properties, Various Properties, Boston, MA. HW completed topographical, property line and ALTA surveys in preparation for purchase of a number of urban parcels on an on-call basis for our client.
- McShane Construction, Mixed Use Development, Mashpee, MA. HW completed topographical, property line, construction stakeout, and as-built surveys for this mixed use commercial and residential development.
- McShane Construction, Commercial Development, Mashpee, MA. HW completed topographical, property line, construction stakeout, and as-built surveys for this commercial development.
- Housing Assistance Corporation, Various Properties, Cape Cod, MA. HW completed topographical, property line, and/or wetland surveys at a number of properties ranging from 7 acres to 45 acres slated for development as affordable housing.
- Cape Cod Community College, Hyannis, MA. HW completed topographical survey for the installation of a wind turbine at this college.
- Barnstable Municipal Airport, Hyannis, MA. HW completed a number of topographical and location surveys at this commercial airport.
- Provincetown Municipal Airport, Provincetown, MA. HW completed a number of topographical, wetland, property line, and various other surveys as part of the redevelopment of this airport.

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- Civil & Environmental Engineering
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