Section 3 – GIS Services

Sebago Technics, Inc. offers a full range of GIS services.

Selected GIS Experience

Selected projects

The function of an information system is to improve one's ability to make decisions. An Information system is that chain of operations that takes us from planning the observation and collection of data, to storage and analysis of the data, to the use of the information the decision making process. A Geographic Information System (GIS) is an information system designed to work with data referenced by geographic coordinates to allow for decision making based on accurate locations of the items involved in the process. Whether it be a single part of the GIS process, such as GPS data collection, or a complete GIS system design, Sebago Technics has the capability to design, customize and implement a new or existing Geographical Information System to meet the needs of our clients. The following are GIS services offered by Sebago Technics:

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GIS/GPS Professional Services:

- Parcel Mapping
- GIS Base Mapping
- Site Location Studies
- GIS As-Builts
- Right-of-Way Mapping
- Route Location Studies
- Route Planning
- Feasibility Mapping Study
- Geo-referencing of Record Drawings
- Topographic Base Mapping
- Imagery Acquisition
- Spatial Data Integration
- Utility Mapping
- Asset Mapping
- GIS/GPS Inventory Mapping
- Project Management Mapping Support
- AM/FM Mapping
- 3-D Mapping

GIS services will be provided by ***Jon Giles, PLS and Ben Bolduc***. Jon Giles, PLS has more than 18 years experience in the field of survey and mapping. As a licensed surveyor in the State of Maine, he has worked as a land surveyor, performed boundary, engineering, topographic, Global Positioning System (GPS) control surveys and legal research.

Previously, Mr. Giles served as Vice President of a consulting firm in Maine where he managed the firm's survey, GPS, and Geographic Information System (GIS) related work. In addition to these tasks, he also conducted sales of aerial mapping projects for the firm throughout New England.

During his career with the City of Portland, he served as a surveyor and GIS Coordinator. In these positions, he was involved with both the field work as well as the office work associated with a wide range of City survey, mapping, and engineering projects. He supervised the planning, implementation, and development of a large municipal GIS system and also has extensive experience with software maintenance, data and software purchasing, contractor management, intern management, and coordinating inter and intra departmental. As Sebago Technics' GIS Manager, Mr. Giles has been integral in the application of GIS technologies on many of the company's projects. In his position, he has overseen mapping projects in both the municipal and utility sectors. GIS data and techniques are also applied to a growing number of our engineering and environmental projects.

Ben Bolduc provides GIS technical support and possesses a Bachelor of Science in Geography/Cartography from James Madison University, Harrisonburg, VA. Ben works directly with John Giles and is responsible for GIS mapping and project work in support of municipal, state and private sector clients.

Our staff has extensive experience with the following software and hardware:

Software

ESRI Products: ArcInfo 9.x, ArcEditor 9.x, ArcView 9.x, ArcView 3.x, ArcCAD 14, and ArcExplorer.

AutoDesk Products: AutoCAD 2007, AutoDesk Map 2007, AutoDesk Land Desktop, and Field Survey. AutoCAD experience spans AutoCAD Rel.12 to 2007.

Mapping Software: Leica GeoOffice 3, Leica SkiPro 2.1, Leica GISDataPro, CMM, CEFB, TDS SurveyPro, HP Plotter/Printer Software, Garmin MapSource, Trimble Pathfinder Office and Trimble Terrasync.

Office Software: Microsoft Office, Act, and various office productivity programs.

Hardware (specifically mapping related equipment)

GPS Equipment: Leica System 300, 500, and 1200 Dual Frequency Receivers (survey-grade GPS receivers), Leica GS50 (mapping-grade GPS receivers), Trimble GeoXH, and Garmin GPS72.

Survey Equipment: Lietz, Sokkisha, Nikon, and Topcon total stations; TDS/Husky data collectors; Topcon autolevels and Leica digital levels; optical theodolites.

Photogrammetry Equipment; DSR14 Stereocompiler with Kork KDMS data collection software.