SURVEY

Get full tool kit – everything from network least squares to surface modeling
Work seamlessly between office and field
Establish company-wide design styles
Create GIS links & exchange Esri® data

Choose your platform – Carlson Survey works on:
- AutoCAD® versions 2007 to current
- IntelliCAD® (built-in)
- Or choose Carlson Survey AutoCAD Embedded with the AutoCAD OEM engine built-in

Get the Power of Carlson Field-to-Finish
- Carlson Survey together with Carlson’s popular data collection software options, SurvCE, SurvPC and Field, provide powerful, effective and accurate “Field-to-Finish”:
  - Symbols, points and linework are drawn automatically in Carlson Survey
  - Drawings on SurvCE, SurvPC and Field process perfectly in Carlson Survey

“Carlson works because their developers come from a survey background. I find it has the right kind of thought process – the way it leads you through [the survey process] is exactly the way a surveyor thinks.”

Stewart Bazeley, Baypoint Surveys, Bournemouth, Dorset, U.K.
Top New Features

- **Carlson Cloud**: Transfer files and messages to SurvCE users in the field
- **Geodetic Mapping**: Calc for geodetic angles, distances and areas
- **Annotative Text/Points**: Auto resize for drawing scale.
- **Lock Points**: Lock selected points in the coordinate database to prevent modifications
- **Field-to-Finish**: New pipe network feature coding
- **Google Earth**: Added export for text, images and surfaces and import for points with photos

Survey Commands

**Data Collection Interfaces**: Upload and download to popular data collectors

**Traverse Adjustment**: Spreadsheet editor for raw data with graphics and processing for traverse adjustments

**SurvNET**: Advanced network least-squares for total station, GPS and level data

**Field-to-Finish**: Draw points with styles and in point groups set by point descriptions and drawing line work by several flexible methods.

**Field-to-Finish Inspector**: Inspect all field-to-finish elements, see description source and re-draw based on descriptions edits

**COGO**: Streamlined inverse, traverse, sideshot, intersections, interpolation, translate, rotate, scale and align

**Coordinate Transformations**: Transform coordinates and screen entities between lat/lon and grid projections as well as local to local by Helmert and least-squares methods

**Deeds**: Enter deed by description, read deed data from deed file, deed reports, deed correlation and generate legal description from drawing

**Cut Sheets**: Create custom cut sheet reports with reference grades and station-offsets

Calculate Offsets: Reports stations and offsets for selected points along centerline

Create Offset Points: Create points at specified stations and offsets

Spirals: Flexible handling of the most complex spiral curves including “spiral-only” elements going arc-spiral-arc, arc-spiral-line and line-spiral-line

Profiles

Create Profiles: From surfaces, screen entities, points on centerline, etc.

Quick Profile: One step profile creation with real-time update while adjusting centerline

Input/Edit Profiles: Enter profile data in dual spreadsheet and graphic window, and design in referencing to controlling profile grade point

Draw Profiles: Draws profiles on grids or plan-profile sheets with auto-updating based on edits

Profiles To 3D: Create points and 3D polylines from profiles

Points

Import/Export: User-defined import and export of point data along with conversions with specific other formats

Draw Points: Draw points with settings for symbols, layers and styles

Point Groups: Point group manager to define sets of point by filters

Coordinate File History: Tracks all changes to points with report and undo functions

Fix Point Label Overlaps: Finds point label overlaps with rule options to fix automatically

Point Tools: Utilities for modifying point labels such as move with leader, twist and resize

Area/Layout

Label Areas: Customized area label styles and several methods to select areas to label

Size Areas: Sliding side area, hinged area, area radial from curve and bearing area cutoff

Lot Network: Commands for subdividing a site into lot and ROW areas. Dynamically updates areas for any changes to boundaries. Includes ability to label linework and areas and to draw setback boundaries

Lot Manager: Lot definitions by point numbers with functions to create lots, conduct map check for closure, edit in spreadsheet with graphics, report lots and draw lots

Offsets, Intersection and Cul-de-Sacs: Layout for ROW and EOP linework

Annotation

Angle & Distance Labels: Flexible routines to label linework in all possible layout combinations plus available rules to automatically fix label overlaps and revise labels when entities move

Curve Labels: Label curve data in stack, along arc or in table

Survey Text: Routines to create typical plat labels such as offset and building dimensions

Linetypes: Draw special linetypes

GIS Commands

**GIS Data**: Input, edit, query, report, label and inspect database data attached to drawing entities

**ESRI**: Import/Export feature data by Esri MSC or SHP

**Geo-Referenced Images**: Place geo-referenced images into the drawing

**Place Camera Symbol/Image**: Draw a camera symbol with an attached image

General

**Coordinate Systems**: 100s of projections including SurvCE

**CSLReport Formatter**: Create customized, professional reports

**Symbol Library**: Hundreds of 2D and 3D symbols

**Project Setup**: Flexible data storage methods

**Drawing Explorer**: Manage and access project data files

**Drawing Cleanup**: Fix common drafting errors

**Drafting Enhancements**: Handy tools for working in AutoCAD® such as Join Nearest, Shrinkwrap Entities, Polylines Utilities, Drawing Inspector, Layer Inspector and Twist Screen

**Data Compatibility**: Supports industry standard LandXML and scores of specific data conversions

**Document Management**: Use Data Depot for sharing and archiving files

**CAD Standards**: Draw items with standardized properties

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