CARLSON SURVEY

– Surveyors' #1 Software Choice

MADE for Surveyors!

- **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 2000 to current
- IntelliCAD® (built-in)
- Windows® (XP to 7)

Or choose Carlson Survey AutoCAD Embedded
with the AutoCAD OEM engine built-in

Get the Power of Carlson Field-to-Finish

Use Carlson Survey together with Carlson's popular data collection software options, Carlson SurvCE, Carlson SurvPC or Carlson Field, and you'll get powerful, effective and accurate "Field-to-Finish."

Thanks to the ability to code all entries in either of these three options, symbols, points and linework are drawn automatically in Carlson Survey.
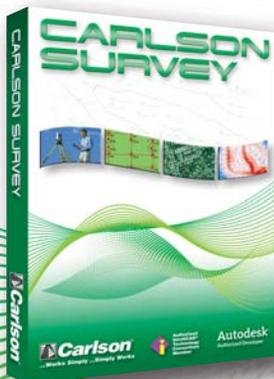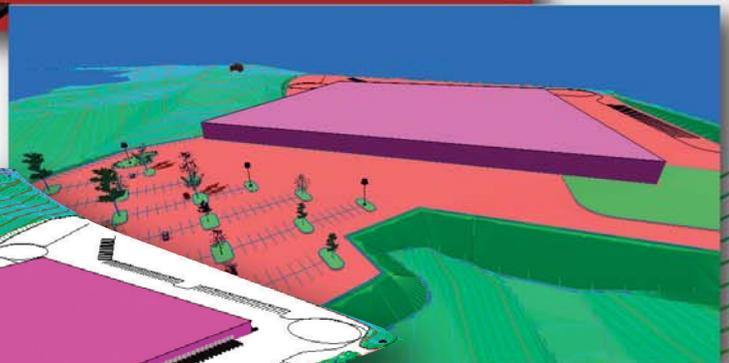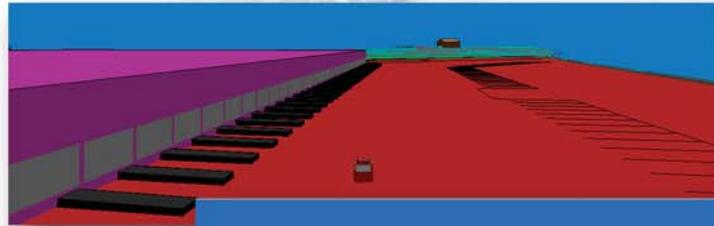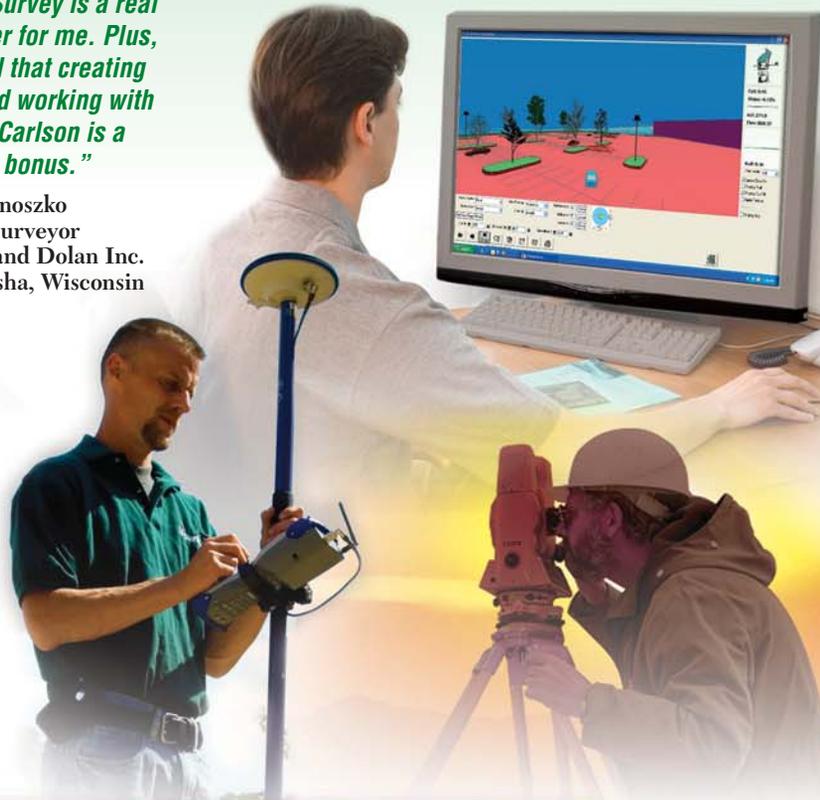
In fact, SurvCE, SurvPC and Field serve as an efficient preview screen for the final drawing – if it looks good in the data collection program, it will process perfectly in Carlson Survey.

Find Out More NOW!
Call or visit Carlson Software:
800-989-5028 • www.carlsonsw.com

"Carlson Survey is a real time saver for me. Plus, I've found that creating points and working with points in Carlson is a complete bonus."

— **Gary Anoszko**
Head Surveyor
Payne and Dolan Inc.
Waukesha, Wisconsin

Free Technical Support
By Phone, Email, and Web

Carlson®
...For the Total Project

Authorized
IntelliCAD® Technology
Consortium Member

*IntelliCAD is a robust, DWG-compatible CAD platform that every CAD developer can build upon

Autodesk®
Authorized Developer

CARLSON SURVEY

– Connect To Essentially Every Manufacturer's Proprietary Hardware And Software

Top New Features

Field-to-Finish: New ability to create GIS links from GIS data and draw selected GIS attributes

Esri® MSC: Added support for Esri data exchange using Esri's Map Standards for CAD

3D Symbols: New 3D symbols in library and 3D support in Field-to-Finish, Point Clouds and Viewer Window

Report Formatter: New controls for report header/footer and text properties to create more professional and personalized reports

Coordinate Systems: Added support for many new projections including SurvCE CSL support

GONS Support: Added support for angles in GONS for many routines

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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 draw linework 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

Surface Commands

- **Build Surfaces:** By triangulation or rectangular grids
- **Contouring:** One step triangulate and contour from 3D ensities as well as contouring from surface files
- **Surface Manager:** Change surface display properties and adjust surface functions to add and remove points and breaklines and swap edges
- **Volumes:** Earthwork volumes between triangulation or grid surfaces
- **Pad Design:** Tie cut/fill slopes from pad perimeter to surface, build pad surface, calculate and balance volumes, and edit pad parameters

Centerlines

- **Design and Edit Centerlines:** Design or input alignments on screen or in dialog with graphics
- **Label Stations and Offsets:** Annotate station and offsets along centerline and at selected points
- **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 reference to controlling profile grade points
- **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
- **Lot Layout:** Size lots along alignment with controls for target area, setback and frontage
- **Offsets, Intersection and Cul-de-Sacs:** Layout for ROW and EOP linework
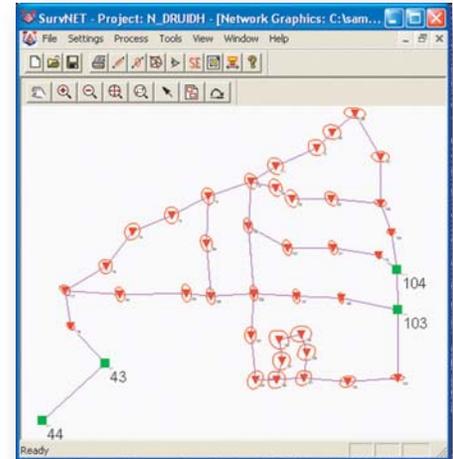
Annotation

- **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
- **Label Elevations:** Label spot elevations along an alignment
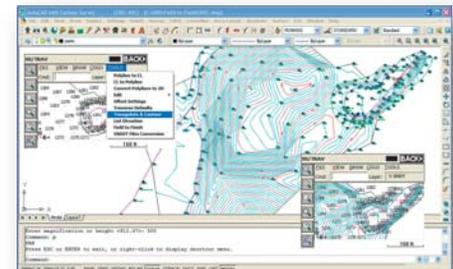- **Linetypes:** Draw special linetypes

GIS Commands

- **GIS Data:** Input, edit, query, report, label and inspect database data attached to drawing entities
- **ESRI SHP:** Import/Export point and linework data
- **Geo-Referenced Images:** Place geo-referenced images into the drawing
- **Place Camera Symbol/Image:** Draw a camera symbol with an attached image
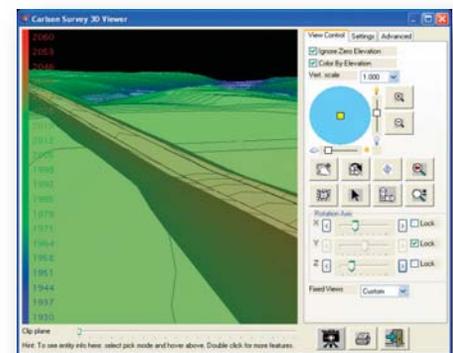
General

- **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, Polyline 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

SurvNet traverse network with error ellipses

Contour in both Carlson Survey and SurvCE

Carlson Survey 3D viewer image

Carlson®

...For the Total Project