civil survey solutions

Autodesk Authorised Developer

Autodesk Authorised Training Centre

Survey inside AutoCAD®

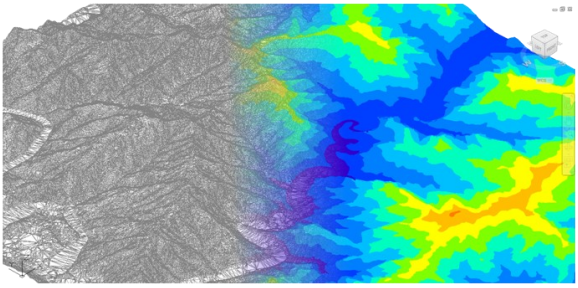
Stringer Survey

Convert your AutoCAD® into a Topographical Survey Program

Stringer Survey is built to operate on any AutoCAD® based platform, so you can quickly make your AutoCAD® into a topographical survey tool.

Stringer Survey provides AutoCAD® users with highly efficient and simple-to-use topographical survey and survey drafting tools including—point reduction from raw observations, co-ordinate point support with automatic block and marker assignment and comprehensive point editing tools.

Stringer Survey can create surfaces from survey data including automated breaklines, LandXML, 3D Faces and points in AutoCAD. Surfaces can be edited, contoured, analysed and volume calculations performed.

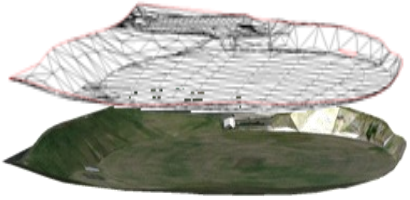


Here's how AutoCAD® and Stringer Survey can benefit you:

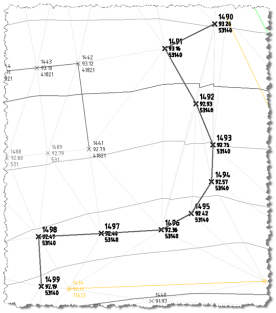
- ✓ Comprehensive tool set for topographic survey calculation and drafting
- ✓ Easy to learn – leverage your AutoCAD® skills
- ✓ Low cost – resides on top of your AutoCAD®

Stringer Survey—Topographical Survey Inside AutoCAD®

Save time and make it easier to import, adjust and share you survey data inside a familiar AutoCAD® environment using **Stringer Survey**.



Built for AutoCAD®, AutoCAD® Map 3D and AutoCAD ® Civil 3D, **Stringer Survey** delivers simple yet powerful survey reduction tools, dynamic point and surface editing as well as automatic and advanced breakline creation tools. Speed up your topographical survey delivery from the data recorder to finished AutoCAD® plans.



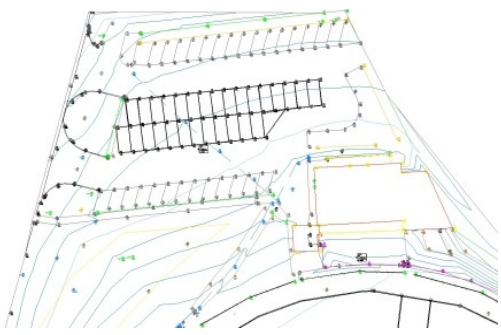
Use the Stringer Connect tool to work with raw survey observation files in a simple-to-use spreadsheet editing environment, from which you can adjust your observations, change/ add target heights and comment out observational errors. Graphically review your survey observations to confirm correct orientation and backsighting, before adding to the drawing. Convert your observations into COGO points, directly in the drawing, at the click of a button.

See your survey develop as you make edits to your COGO points—as point codes are edited breaklines automatically update and the surface rebuilds, including all contours and contour labels. Simple field code parameters, either taken in the field or adjusted in the drawing, will automatically adjust breaklines for arcs, offsets, and closing strings.

Survey adjustments can be made in seconds and you are ready to plot or send immediately from inside your AutoCAD® environment.

The benefits at a glance:

- ✓ Reduction of Survey data and importing COGO points
- ✓ Surface creation with breaklines, updating directly from the COGO points
- ✓ Offset breaklines, arc segments and closing strings directly from field point codes
- ✓ Simultaneous 2D and 3D polyline creation on user defined layers, ready for plotting
- ✓ Data transfer and import/export functionality supporting suvey formats



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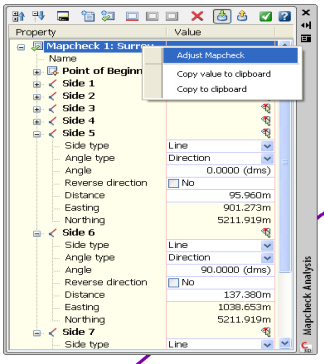
Civil Survey Solutions and Autodesk®

Survey Solutions inside AutoCAD®, Map 3D® and Civil 3D®

AutoCAD® Civil 3D and Stringer Survey—A Comprehensive Survey Solution

Upgrade to the premium AutoCAD® for the industry—AutoCAD® Civil 3D, and get full cadastral survey functionality including:

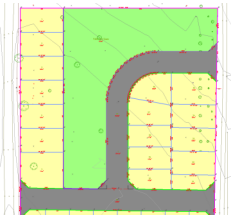


- ✓ Highly automated lot layout/subdivision tools with dynamic lot line/curve labelling
- ✓ Dynamic lot area and lot line/arc tables for documentation purposes
- ✓ Apply least squares adjustments, misclose calculations and editing of survey observations, displayed dynamically in the drawing
- ✓ Generate points from the survey observations, updating as the survey observations are updated
- ✓ Automates lot creation directly from your survey data
- ✓ Geospatial analysis and mapping capabilities to support surveying workflows and transfer between multiple co-ordinate systems
- ✓ Supports Land XML transfer—share your data readily with other design environments.
- ✓ Enhanced COGO point editing/display and comprehensive surface editing/analysis tools

Survey, Land Planning and Civil Design Solutions—Pick your AutoCAD® Platform

AutoCAD® Civil 3D® - Civil, Survey and Geospatial

AutoCAD® Civil 3D® for survey, civil engineering design and documentation, is built for surveyors, civil engineers and technicians working on transportation, land development, and water projects. Stay coordinated, analyse project performance, and deliver better documentation—all within an AutoCAD® environment. AutoCAD® Civil 3D® incorporates AutoCAD® Map and AutoCAD®. Key survey functionality includes:



Comprehensive survey database—do least squares and other adjustments in real-world co-ordinate systems directly from your survey observations

Surface Analysis and Surface Design —get advanced surface analysis, dynamic surface display and updating and multiple pasting

GPS Machine Control Support—generate 3D models for GPS machine control by exporting design models based on industry standard formats

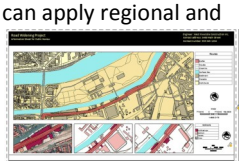
Reality Capture—create & visualise point clouds using LIDAR scanning data

Alignments, Long Sections and Cross Sections —quickly and dynamically display long sections and cross sections across your survey surfaces

AutoCAD® Map 3D® - Geospatial Analysis

AutoCAD® Map 3D mapping software for model-based infrastructure planning and management helps integrate CAD and GIS data to inform GIS, planning, and engineering decisions.

With intelligent industry data models and tools, you can apply regional and discipline-specific standards. Integrating spatial information into a database makes data available throughout the organization, helping you improve quality, productivity, and asset management.



AutoCAD® - World Leader in 2D and 3D design

Design and shape the world around you with the powerful, flexible features found in AutoCAD® software, one of the world's leading 2D and 3D design applications. With robust 3D tools that can create almost any shape imaginable, AutoCAD helps you intuitively create stunning designs.

Pick your AutoCAD® Platform—Comparison Matrix

Legend: ✓ **Feature Supported,** ✓✓ **Enhanced Feature Support**

Feature Listing	Stringer Survey			Plus Advanced Road Design
	+ AutoCAD	+ Map 3D	+ Civil 3D	All Platforms
Survey and Land Subdivision				
Land Subdivision Design Tools			✓	
Topographical Survey	✓	✓	✓✓	
Cadastral Survey	✓	✓	✓✓	
Geospatial Data Management		✓	✓	
Civil				
Point Cloud Data	✓	✓	✓✓	
Surfaces and Surface Volumes	✓	✓	✓✓	✓
Alignments and Long Sections			✓	✓✓
Design Sections, Roads, Intersections, etc			✓	✓✓

Notes: Products are available on 2010 version and later AutoCAD based platforms.

Stringer Survey is proudly developed with AME Surveys Pty Ltd.

Civil Survey Solutions—Your Survey and Software Specialists

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Civil Survey Solutions is an Autodesk Partner, Autodesk Training Centre and Autodesk Developer. We specialise in the civil and survey marketplace and employee qualified civil and survey staff to deliver you the best possible service.

If you have any requirements for customisation of any kind in AutoCAD, AutoCAD Map or AutoCAD Civil 3D we can help.

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