



ESurveying Softech (India) Pvt. Ltd.
Bringing Survey Community Together

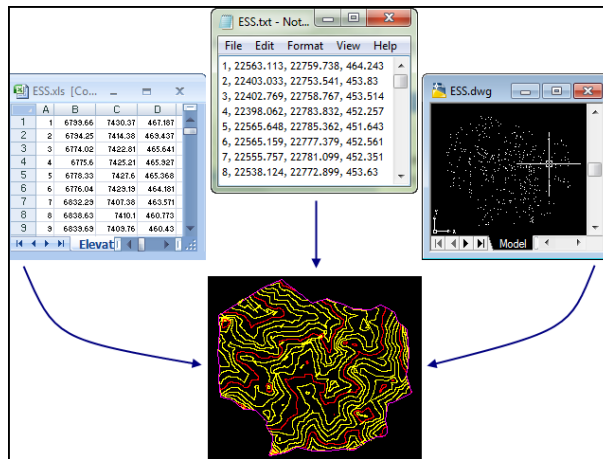
ESurvey CAD Feature List

“ESurvey CAD” is a comprehensive yet compact software solution for surveyors and Engineers for creating Contours, calculating Earthwork quantities and converting point data into CAD to generate Topographical map. It comes with three modules and a couple of useful tools like Traverse correction, Units convertor, Bulk Plot etc. which are easy to use and save a lot time.

Contours module

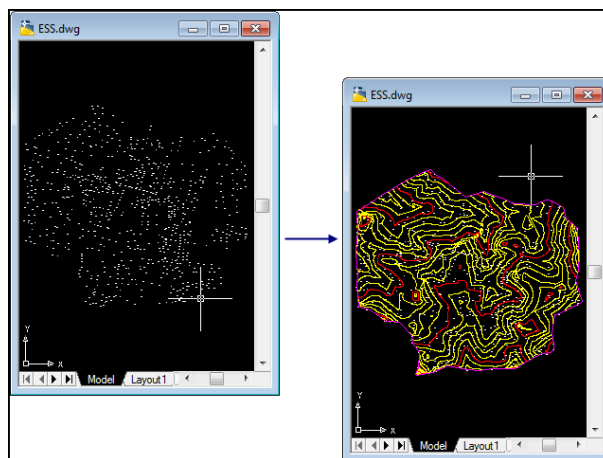
Import data from CSV, Excel or CAD for Contour generation

Often survey data (or total Station data) is represented in Excel or CSV format. This data can be imported into ESurvey CAD directly, to generate contours. Contours can also be drawn for data available in CAD.



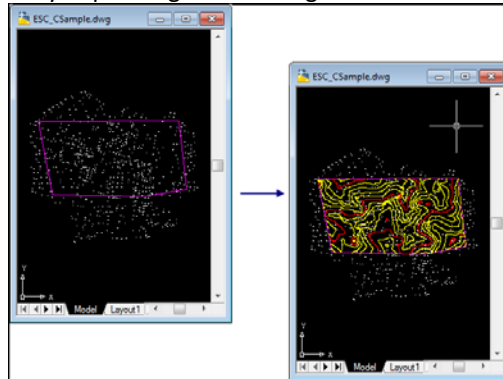
Generate Contours directly within CAD

When the elevations are in CAD, the contours can be generated in CAD directly. Optionally, contours can also be generated in 3D. When contours are generated in 3D, contour lines will have respective values as Elevation (Z Value).



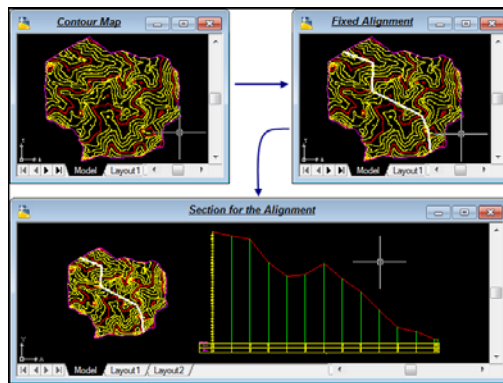
Generate Boundary Based Contours

Generate Contours for a given boundary i.e., Drawing contours for actual boundary is more practical than allowing the software to calculate the boundary depending on Scanning radius.



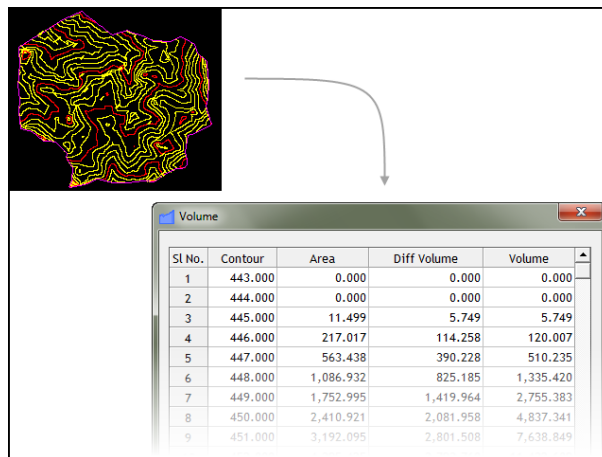
Draw Section for any alignment fixed on the Contour Map

Draw Section for any alignment fixed on the Contour Map where the alignment is drawn using Plines, this alignment represents a road, canal, pipeline etc. This feature is very useful tool for fixing final alignments.



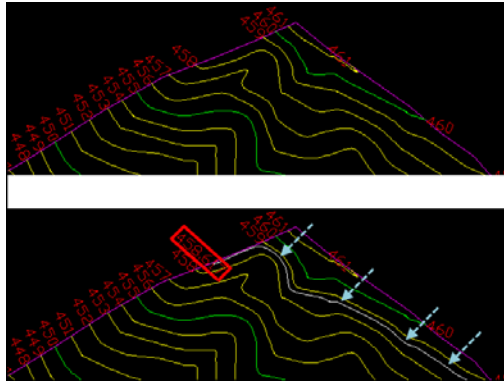
Generate Contour Area and Contour Volume instantly

The Contour Area and Contour Volume can be generated instantly. This feature is very useful for finding reservoir capacity and surface area at a given contour level.



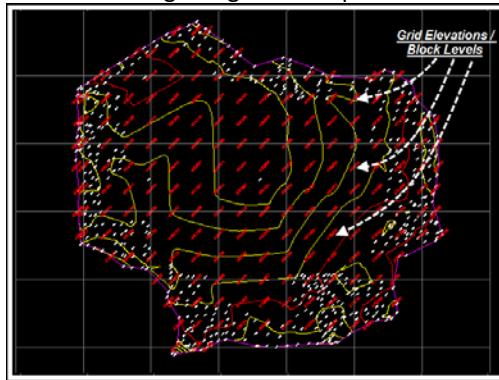
Generate Contours for Specific Levels

Generate Contours at Specific Levels which is a very handy tool for making accurate designs.



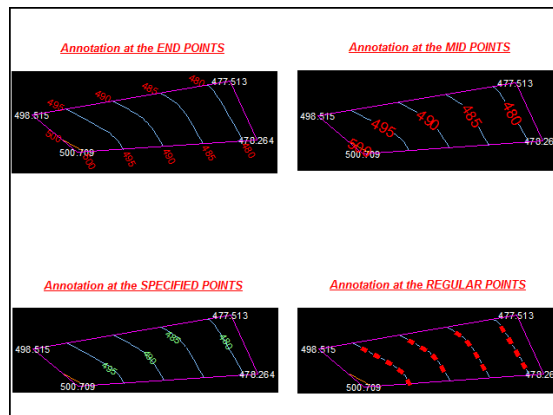
Generate Grid Elevations or Block Level

Generate Grid elevations or Block levels without getting into complicated surface creation.



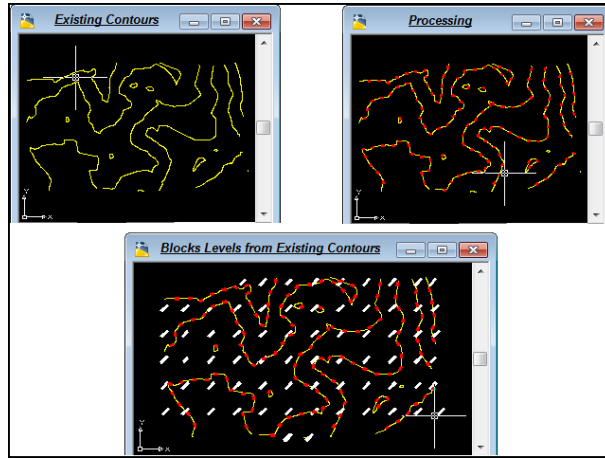
Annotate Contours

Annotate Contours at Endpoints, Midpoints or selected points of the contour line or annotate the complete contour line at specified interval.



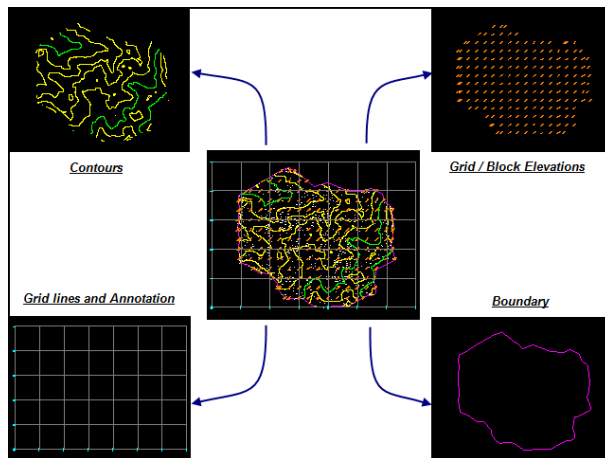
Draw Grid Elevations from existing Contours

Reverse engineer by generating Grid Elevations from existing contour lines generated from different software



Detailed Layerisation before exporting to CAD

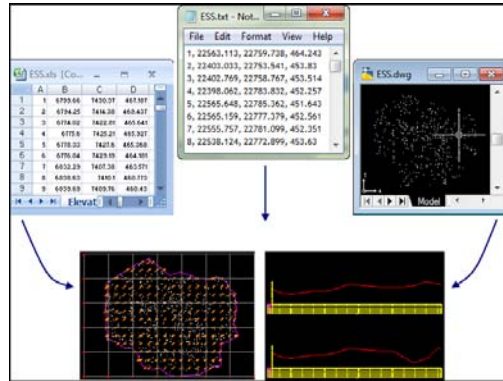
The generated contours and other related entities are stored layer wise, i.e. contours, contour boundary, original elevations, grid elevations, annotations, grids etc are stored in separate layers. Also different colours can be set to each of these layers making the contours visually distinguishable.



Earthwork module

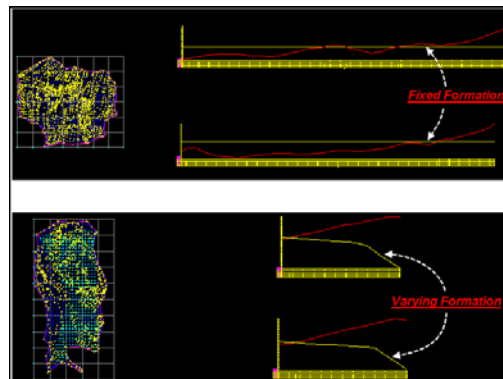
Import data from CSV, Excel or CAD for Quantity Estimates

Often survey data (or total Station data) is represented in Excel or CSV format. This data can be imported into E SurveyCAD directly, to calculate earthwork. Earthwork can also be calculated for data available in CAD.



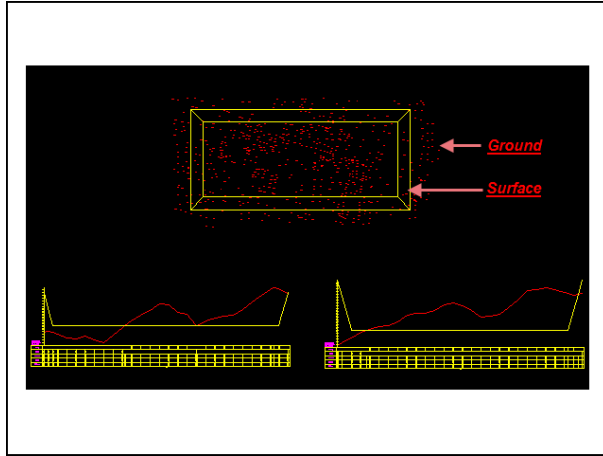
Earthwork for fixed formation level or between two surfaces

Generate Earthwork calculation along with Section Drawings for fixed formation level or between two surfaces.



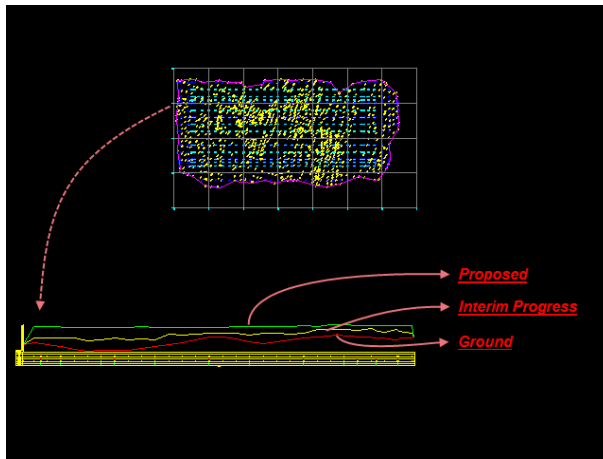
Generate Earthwork calculations for Stepped or Sloping Final surface

Generate Earthwork calculations for stepped or sloping final surface by importing simple lines in 3d defining the surface.



Generate interim Earthwork reports during progress of projects

Generate interim Earthwork reports during progress of projects as per the current development for the purpose of interim payment.



Generate quantity calculation (Quantity takeoff) reports either using Section method or Block method

Generate detailed quantity calculation (Quantity takeoff) reports using two methods: Section method or the Block method

Volume Report (Triangulation method)												
Sl. No.	Chainage From	Previous Chainage	Diff	Width	Cutting Volume			Filling Volume				
					Area Sq M	Previous Area	Average Sq Meters	Volume Cubic M	Area Sq M	Previous Area	Average Sq Meters	Volume Cubic M
1	996.000	-	0.000	30.000	23.852	0.000	11.926	0.000	0.942	0.000	0.471	0.000
2	1000.000	996.000	4.000	30.000	23.691	23.852	23.771	95.086	0.700	0.942	0.821	3.284
3	1004.000	1000.000	4.000	30.000	23.220	23.691	23.455	53.820	0.283	0.700	0.492	1.967
4	1008.000	1004.000	4.000	30.000	25.080	23.220	24.150	96.598	0.045	0.283	0.164	0.656
5	1012.000	1008.000	4.000	30.000	25.662	25.080	25.371	101.483	0.000	0.045	0.022	0.090

Volume Report (Block Method)												
Sl. No.	Chainage From	Chainage To	Area Sq M	Previous Area	Average Sq Meters	Volume Cubic M	Area Sq M	Previous Area	Average Sq Meters	Volume Cubic M		
6660-7350	6660-7360	6670-7350	6670-7360	0	462.263	463.047	468.693	464.6676667	1	466.14		
6660-7360	6660-7370	6670-7360	6670-7370	462.263	458.846	460.576	463.047	461.183	2	466.14		
6660-7370	6660-7380	6670-7370	6670-7380	458.846	457.633	459.009	460.576	459.016	3	466.14		
6660-7380	6660-7390	6670-7380	6670-7390	457.633	456.32	457.161	459.009	457.53075	4	466.14		
6660-7390	6660-7400	6670-7390	6670-7400	456.32	454.497	454.508	457.161	455.6215	5	466.14		
6660-7400	6660-7410	6670-7400	6670-7410	454.497	453.234	453.945	454.508	454.046	6	466.14		
6660-7410	6660-7420	6670-7410	6670-7420	453.234	453.223	455.18	453.945	453.8555	7	466.14		
6660-7420	6660-7430	6670-7420	6670-7430	453.223	455.134	456.519	455.18	455.014	8	466.14		
6660-7430	6660-7440	6670-7430	6670-7440	455.134	455.787	457.574	456.519	456.2535	9	466.14		

Generate Grid Elevations or Block Level

Generate Grid elevations or Block levels without getting into complicated surface creation.



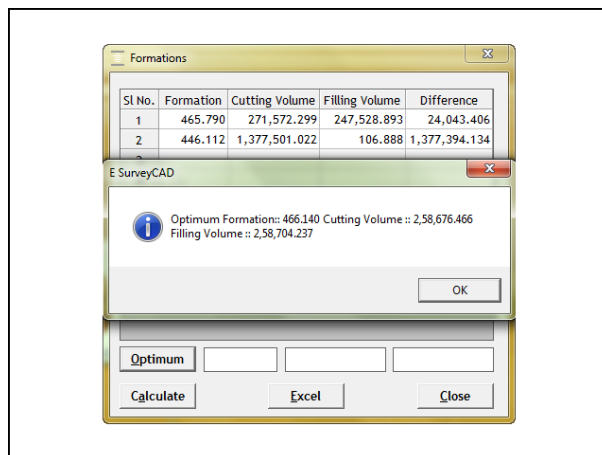
Generate Earthwork Calculation reports between given Depth of cut or Depth of Fill

Generate Earthwork Calculation reports between specified Depth of cut and Depth of Fill. This feature is useful when the rate is fixed slab wise depending on depth of cut or height of fill.



Automatic calculation of Optimum Formation level

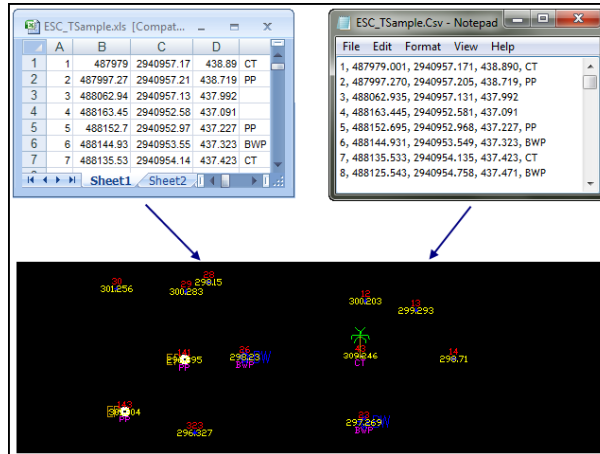
Calculate optimum Formation level where cutting and filling are almost equal.



TopoDraw module

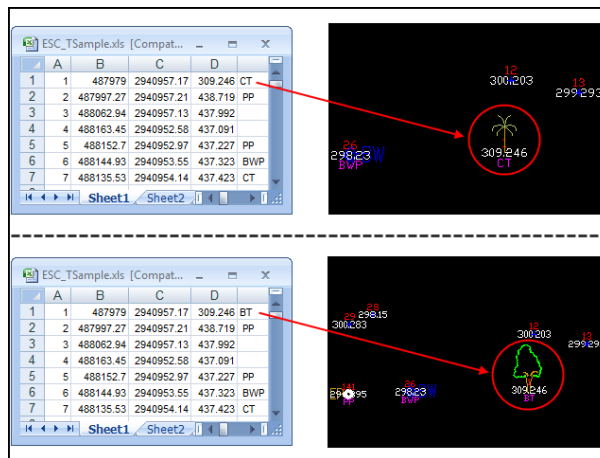
Import point data from CSV or Excel for generating Topographical drawing

ESurvey CAD draws CAD drawings from point data instantly with Blocks and Elevations in their respective Northing and Easting. With this feature, the point data in Excel can directly be converted into ready-to-use drawings.



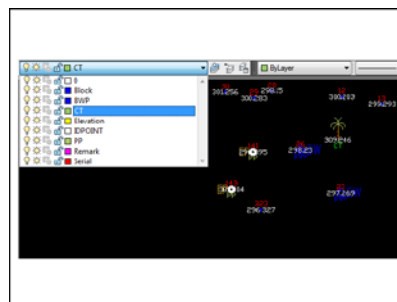
Insert blocks automatically while creating drawing depending on code

For each code specific drawing block can be configured. This allows to generate the drawing with required blocks depending on code.



Export codes point data in different layer selectively

The generated drawing and other related entities are stored layer wise, i.e. Block, Elevation, Remark, Serial, etc can be stored in separate layers. Also different colors can be set to each of these layers making the drawing visually distinguishable.





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