



powerful software tools for the engineering professional

Overview v8.0.0

SmartDraft works inside AutoCAD, Map, Land Desktop + Civil Design 3 and Civil 3D 2005 through 2008.

SmartDraft was designed to make AutoCAD, Land Desktop, and/or Civil 3D more productive and easier to use. It is the result of extensive research and development, combined with many years of experience in the civil engineering industry. If you have Land Desktop and Civil Design, or Civil 3D **SmartDraft** can read the alignment, feature line, parcel, point, profile, and surface database. **New** in v8.x is the ability to update label values when the design data changes.

SmartDraft was designed to do what the computer does the best, repetition and following directions. It provides you with a comprehensive set of tools to assist in the creation of standardized drawings.

SmartDraft was designed to use AutoCAD's ability to twist a view. All labeling, annotation and text tools adjust to a twisted view so that text is read correctly. Multiple views can be saved and recalled. This feature helps manage multiple viewports when using Paperspace and Modelspace.

SmartDraft has layout tools to assist in subdivision layout and design. Calculate cul-de-sac with tangents, knuckles, and reverse curves. The grading tools can calculate toe of slopes, set polylines at specified elevation. Offset 3d polylines, offset from blocks and xreferences, and offset multiple selected objects on both sides.

Features

SmartConnect (New)

A field to finish tool which draws 2D or 3D polylines from point descriptions and key codes.

Parcel

- Area Tables from SmartDraft and Land Desktop parcels.
- Define, manager, and label SmartDraft parcels.
- Create Closure Reports from SmartDraft, Land Desktop, or Civil 3D parcels.

Planview

- Label alignments
- Label stations and offset
- Create lateral lines along alignments
- Read Land Desktop and Civil 3D alignments
- Label profile data along the alignment

Profile

- Draw profiles manually or from Land Desktop and Civil 3D profile data.
- Three line profiles
- Add labels at stations
- Draw curb returns
- Calculate pipe deflect
- Label alignment data along the profile
- Create 3d polyline from Land Desktop profiles.
- Vertical curve calculator

Points

- Place 20s and 80s
- Create coordinate table
- Label coordinates
- Label point objects
- Erase point groups
- Supports Land Desktop and Civil 3D point objects.

Grading

- Label elevations
- Label slopes
- Draw toe / top of slopes
- Calculate slopes
- Read Land Desktop and Civil 3D surfaces, alignments, and profiles.
- Edit object's elevation

- Calculate elevations

Labeling

- Label bearing and length
- Label delta, radius, length, tangent, and chord
- Change label scale
- Label with numeric or alphabetic tags
- Renumber tags
- Find a tag
- Label from styles
- Consolidate common tags
- Create line, arc, or combined line/arc label tables
- Create ALTA labels
- Label radial bearings

Design / Drafting

- Offset from blocks or xreferences
- Create cul-de-sac
- Create knuckles
- Create reverse curves
- Tangency report
- Draw dimensions
- Layer database
- Polyline tools
- Reverse polyline direction
- Inquiry tools
- Measure angles
- Label areas
- Count blocks
- Scale blocks
- Rotate blocks
- Update blocks

Text

- Arc text
- Sequential numbering
- Sequential lettering
- Align text
- Respace text
- Rotate text
- Swap Text
- Adjust numbers
- Match String with adjustment
- Reference bubbles
- and more

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