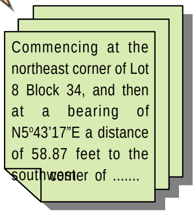
CEDRA-AVparcel™

Parcel Mapping and Maintenance

Using ESRI's ArcGIS® or ArcView® GIS Software

CEDRA 2017™

Get a deed


Commencing at the northeast corner of Lot 8 Block 34, and then at a bearing of N5°43'17"E a distance of 58.87 feet to the southwester of ....

Are you using **ArcGIS**™ to just review your parcel data ?

Well, why stop there, when you can use **CEDRA-AVparcel**™ software to *create* and *maintain* your parcel data directly from within **ArcGIS** ?

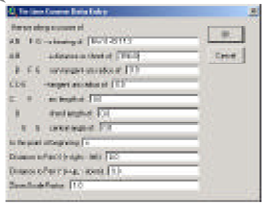
- No third party software, and
- No passing of data from various packages in and out of **ArcGIS**.

With **CEDRA-AVparcel** you get a robust suite of tools tailored for tax (cadastral) mapping, parcel maintenance and general Polygon Editing applications.

Join the many **Assessors**, **Planners**, **Foresters**, **Parks Departments**, **State Archives**, **Oil and Gas Companies**, **Utility Authorities** and many others that use **CEDRA-AVparcel** to maintain their land parcels, leases and boundary information within **CEDRA-AVparcel.**

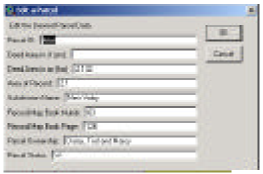
Based on a modern COM technology user interface, **CEDRA-AVparcel** for **ArcGIS** offers **ArcMap**™ users the ability to perform COGO and parcel maintenance applications directly from within **ArcMap**. Existing users of the **CEDRA-AVparcel**, **ArcView**® **GIS** 3.x version, can utilize their current parcel data sets and begin to take advantage of the new mapping and GIS functionality of **ArcMap**.

Transcribe the deed, & build topology with **CEDRA-*AVparcel*™**



Use a variety of cogo editing and import/export tools in CEDRA-*AVparcel*™ to create and/or update parcels

Introduce various parcel attributes with **CEDRA-*AVparcel*™**

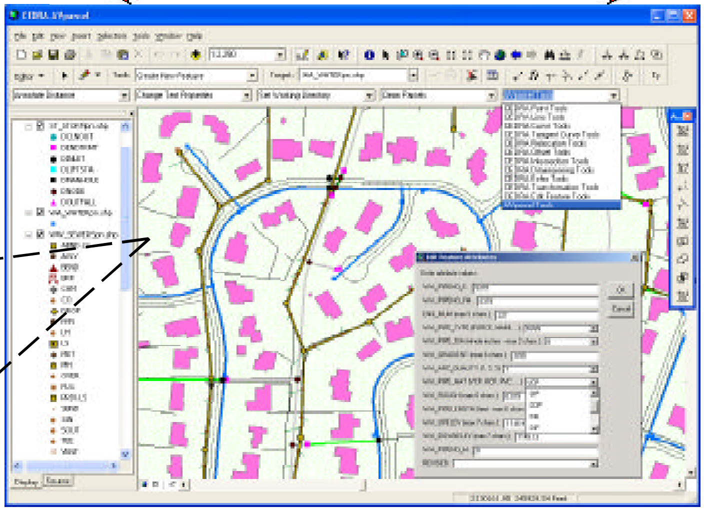


And you can use either:

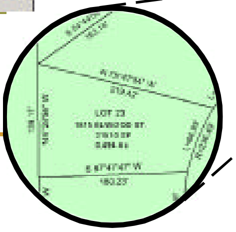
ArcView® GIS 3.x,

or

ArcGIS™



Mass annotate parcel metes and bounds and attributes with **CEDRA-*AVparcel*™**



Contact **The CEDRA Corporation** on how to order:

CEDRA-AVcad™ for general feature editing, annotation and CAD tools, **CEDRA-AVcogo™** for comprehensive COGO tools, **CEDRA-AVland™** for roadway and site engineering, **CEDRA-AVparcel™** for parcel mapping and maintenance, **CEDRA-AVsand™** for sanitary, storm and combined sewer modeling, **CEDRA-AVwater™** for water distribution and quality modeling, **CEDRA-DataEditor™** for data entry and maintenance, **CEDRA-DxfExport™** for DXF file exporting.

The CEDRA Corporation™

***Total CADD for Engineers*™**
***Bridging Engineering and GIS*™**

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AUTHORIZED ESRI DEVELOPER and RESELLER

ESRI Technology AUTHORIZED BUSINESS PARTNER

SOME OF THE FUNCTIONALITY FOUND IN CEDRA-AVparcel™ for ArcGIS® and ArcView® GIS

Point, Line and Polygon Importing
- ❑ Mass import points in a variety of formats from an ASCII file that may or may not include point numbers, elevations, codes and descriptions.
- ❑ Mass import lines that are defined by node numbers or coordinates from an ASCII file.
- ❑ Mass import polylines that are defined by vertex coordinates from an ASCII file.
- ❑ Mass import polygons from an ASCII file.

Point Creation
- ❑ Via keyboard entry of coordinates.
- ❑ From a point with a direction and distance.
- ❑ From a point turning an angle off a direction and with a specified distance.
- ❑ Along a line or curve with plus and offsets.
- ❑ Projecting points on lines and/or curves.
- ❑ Division of a group of lines and/or curves into equal parts creating points.
- ❑ Location of the center of a curve.
- ❑ At the endpoints or vertices of lines and/or curves.

Line Creation
- ❑ Two-point lines, polylines and polygons with point snapping across all visible themes.
- ❑ From a point with a direction and distance.
- ❑ From a point turning an angle off a direction and with a specified distance.
- ❑ Horizontal and vertical lines.
- ❑ Ticks at a specified length and spacing.
- ❑ Tangent to a curve at any point on the curve.

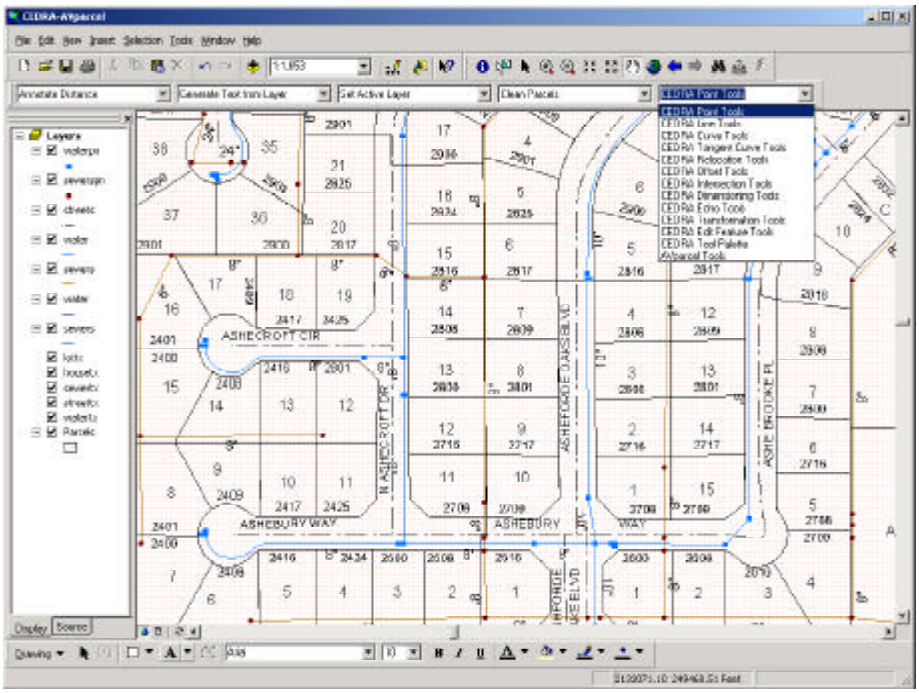
Curve and Non-Tangent Curve Creation
- ❑ Circle with center and radius or through 3 points.
- ❑ Arc through 3 points or given center, start point, and *(a) arc length*, *(b) endpoint*, or *(c) central angle*.
- ❑ Arc tangent to two lines and with a radius.
- ❑ Arc tangent to two lines passing through a point.
- ❑ Arc tangent to a line or curve given its PC, radius and *(a) arc length*, *(b) central angle*, *(c) chord length*, or *(d) chord direction and length*.

Buffers, Offset Elements and Polygons
- ❑ Lines or curves offset to a line or curve element.
- ❑ Line/curve elements offset to a string of features.
- ❑ Buffer polygon about a string of features.
- ❑ Deed transcription using a table format.

Transformation
- ❑ Translate, rotate and/or scale features.

Intersections
- ❑ Intersect *(a) lines with lines, curves, polylines and/or polygons*, or *(b) curves with curves*.

Editing / Relocation
- ❑ Move line/curve vertex to a new location.
- ❑ Move a line/curve endpoint a specific distance.
- ❑ Specify the length/arc length of a line/curve.



- ❑ Extend a line to its intersection with another line, or curve.
- ❑ Break a line or curve, cutout a line or curve, flip or reverse the direction of a group of lines.

Database Building
- ❑ Topological data structure enabling the recognition of shared parcel sides.
- ❑ Ability to "clean" all or a selected set of parcels, eliminating duplicate/dangling parcel corners.
- ❑ Direct deed transcription with or without tie-lines, and optional forced parcel closure.
- ❑ Automatic computation of centroids & areas.
- ❑ Three dimensional database for application to high rise condominium type of ownership.
- ❑ Automatic polygon creation using an interactive auto-search (tracing) functionality.
- ❑ Ability to mass convert one or a group of polygons into topological parcels.

Database Query and Editing
- ❑ Precise geometric location.
- ❑ Parcel location by number and area range.
- ❑ Parcel corner relocation & side modification.
- ❑ Parcel translation, rotation, biaxial scaling, stretching (rubber-banding) and deletion.
- ❑ Parcel splitting, joining and editing of vertices.
- ❑ Polygon split line may be a single line or a series of contiguous line features.
- ❑ Ability to store geometric and deed data with deed data independent of geometric data.
- ❑ Ability to customize the topological data structure and specify customized parcel attributes.
- ❑ Ability to extract a part of a multipart polygon.
- ❑ Non-graphic attribute entry and editing.

Parcel Closure and Traverse Adjustment
- ❑ Crandall, Compass, Transit and Least Squares adjustments with formal report generation.

Parcel Identification Numbers (PIN)
- ❑ Alphanumeric string of user-defined length.
- ❑ Ability to create a user-defined PIN comprised of up to 8 individual components.
- ❑ Support of New York State Office of Real Property Services (ORPS) format.
- ❑ Support of the Texas-Urban and Texas-Rural Print-Key equations for PIN generation.

Graphic display manipulation
- ❑ Preparation of parcel maps with the ability to create customize map templates.
- ❑ Mass Annotation of parcel identification numbers, areas, centroids and parcel course data (azimuths, bearings, distances, etc.).
- ❑ Individual & global text scaling and editing.

Generic Functionality
- ❑ Support of a variety of Coordinate Systems, state plane, UTM, latitudes-longitudes, etc., as well as Measures such as feet, meters, varas, rods and chains.
- ❑ Specification of angles in decimal or degrees/minutes/seconds form and in Azimuth, Bearing or Cartesian direction formats.
- ❑ Point Snapping across all visible themes.
- ❑ Echo display distance, angle and/or area of *(a) a feature* or *(b) from snapped point picks*.
- ❑ Undo or Oops an operation.
- ❑ Copy features, with or without including their attributes, into other themes.
- ❑ Auto-search or trace to *(a) select features*, *(b) create polygons*, or *(c) create offset elements*.
- ❑ Delete in mass a group of selected features.