



Portion of a General Plan Data Sheet, showing the Block Data, Co-ordinates and Areas



The GP Data Sheet CAD Application

- This CAD application incorporates specific functions for the creation of GP Data Sheets. The format of the Sheets created conforms with the requirements of the Surveyors General in all provinces of South Africa, in Namibia, Swaziland, Lesotho, Zimbabwe, Malawi and Zambia.
- A GP Data Sheet extracts its necessary information from any, or all, of the existing General Plan Sheets, related to the current Co-ordinate File.
- Up to 10 Data Sheets may be created for any Co-ordinate File. For large developments, for example, one Data Sheet may be used for the Co-ordinates and another for the Areas.
- For small developments, the Data Sheet information may be transferred to a General Plan, so that all plan and tabular data can be displayed on a single sheet.
- Once User defined options have been set, the application will automatically generate the tables of Co-ordinates and/or Areas, extracted from the General Plan Sheets.

- After generation of the table(s), CAD functions exist for User modification of any displayed Line or Text Items.
- A variety of Text related functions may be employed for completing, or modifying the headings, etc.
- Using simple mouse or keyboard commands, the on-screen view of a Data Sheet may be :-
 - Zoomed Up,
 - Zoomed Down,
 - Zoomed to a defined window,
 - Zoomed to the defined Plotting scale,
 - Zoomed to a User defined scale,
 - Rotated positively or negatively,
 - Panning or scrolling the display
- The Data Sheet application functions are accessible from :-
 - a Drop Down Menu system,
 - a Tool Bars system (that includes most of the common functions), or
 - using Single or Double Keyboard entered commands.
- The standard CAD functions included are :-
 - Line construction/editing :-
 - Draw using various colours, widths and styling,
 - Generate (using Polar data),
 - Replicate,
 - Dimension,
 - Trim/Snap,
 - Subdivide,
 - Draw rectangles.
 - Text functions :-
 - Write a Text Item using any Font, any Size, any Direction, any compaction or styling,
 - Edit or Delete a Text Item,
 - Dynamically Move a Text Item,
 - Dynamically Copy a Text Item,
 - Dynamically Resize, Position and/or Orientate a Text Item,
 - Import Text Items from an ASCII file,
 - Reset the attributes of all, or selected Text Items.
 - Graphic Image functions :-
 - Import Graphic Images (BMP, JPEG, GIF, TIF, TIFF, ICO, WMF or EMF formats)
 - Create Graphic Image of Sheet, or portion of the Sheet (BMP format)
 - Flip an Image (Horizontal, Vertical or both)
 - Set Images to be in front of, or behind, drawing information

- Move an Image
- Re-Size an Image
- Shift an Image
- Use the SURPAC "Frame" function to :-
 - Copy defined a block of Data from Position to Position, or Sheet to Sheet,
 - Move a defined block of Data from Position to Position,
 - Delete a defined block of Line/Text data,
 - Align a defined block of Text Items (Left/ Centre/ Right Justify, plus horizontal spacing),
 - Rotate a defined block of Data,
 - Zoom Up, or Zoom Down, a defined block of Data,
 - Store and recall Data Blocks from disk for repeated Sheet application.
- Output of the GP Data Sheet to :-
 - A Printer or Plotter,
 - An HPGL File
 - An AutoCAD DXF or DWG File,
 - A Graphic Image File (BMP, JPEG, GIF, TIF, TIFF formats), or
 - A KML (Google Earth) overlay File.
- The specific GP CAD functions are :-
 - Options to :-
 - Select or Deselect the Main Figure & Block Corner Listings,
 - Select or Deselect the extracted Area Listings,
 - Select or Deselect the Main Figure Data Block,
 - Select or Deselect spacing between text blocks,
 - Select or Deselect common Area Grouping,
 - Setting an Erasure Polygon for :-
 - Erasing Lines,
 - Erasing Text Items.