

Revision Date: **October 2012**

Documentation:

The V8i IPLOT pen tables have been modified for use with MicroStation V8i and are located in the following directory:

ODOTstd\V8istd\iplot

The following plotting files for **IPLOT** are:

- **Half.pen** - for 8-1/2"x11" or 11"x17" Prints
- **Halfc.pen** - for 8-1/2"x11" or 11"x17" Color Prints
- **Full.pen** - for 22"x34" Prints
- **Fullc.pen** - for 22"x34" Color Prints

Priority

The plotting files no longer contain any priority settings. Plotting priorities are determined by the MicroStation level and the assigned element priority values in the ODOT_Levels.dgnlib.

Shading:

The following are options to shade elements in a plan sheet:

- **Shading Filled Shapes** – is an option to highlight specific areas on the plan sheet.

Shading levels were created to fill shapes with varying shades of Gray. The half.pen and full.pen plot and fill shapes based on the following shading levels:

SC_Shading1 - uses Color=41
SC_Shading2 - uses Color=43
SC_Shading3 - used Color=45

- **Shading Reference(s)** – is a method to fade the entire Reference into the background.

To gray shade a reference, the **Logical Name** must begin with **gray**, for example gray1, gray2, etc. Color 128 is used to gray shade references. When plotting a reference using a logical name beginning with gray, the half.pen and full.pen will gray shade the entire reference.

Transparency

The use of Transparency for plotting is currently under development and will be implemented at a future date.

Masking:

Masking is an option to hide specific areas on a plan sheet. No elements will show underneath.

The Masking level plots all elements or filled shapes as White to mask any elements underneath. The half.pen and full.pen plot and fill shapes are based on the following masking level:

SH_Masking – uses Color = **255** (Background Color)

Note: To create a border around the shape change the color and place the shape using the Fill Type set to Outlined.

Issues with Pen Tables encountered with V8i plotting:

- When plotting a title sheet with a corporation boundary in the title map using V8i, the corporation boundary area would plot solid black. This area is now a **Type 2 Grouped Hole** in MicroStation V8i, where previously it was a **Type 2 Unnamed Cell** in MicroStation V8 2004 Edition. The previous V8 pen tables would not process a Grouped Hole element in V8i. Therefore, the pen tables were modified to accommodate this change and plot the title maps correctly.
- A TR has been filed with Bentley Plotting Support regarding this issue. Future ODOT CADD Updates will include revisions to the pen tables pending Bentley's fix for the Type 2 Grouped Hole.

Contact Information:

If you have any questions, suggestions, or problems please contact the ODOT Office of **CADD and Mapping Services** CADD Support team or use the following form on the ODOT web site at:

<http://www.dot.state.oh.us/Divisions/Engineering/CADDMapping/CADD/Pages/suggestions.aspx>