Microstation DGN V8 and AutoCAD 2010 Files in HYPACK® 2010

By John Marinuzzi

The long awaited arrival of DGN version 8 files in HYPACK® is finally here.

HYPACK® has become a sustaining member of the OpenDesign Alliance. ODA is a non-profit, membership-based consortium of companies and developers with the goal of providing its members the tools to create, manipulate, and draw CAD files. With the use of their libraries, HYPACK® can now draw and export DWG charts, and draw DGN V8 charts. As you know, we have been drawing DXF and DGN V7 files for a while now using our own drawing routines. Those file types are still drawn with our routines, but the newer versions use the ODA drawing engine.

However, compared to the older formats, the files types do have some limitations in HYPACK®. Unlike DXF and DGN V7 charts, you currently cannot query objects and use them in ENC EDITOR and CHANNEL CONDITION REPORTER as source charts for soundings, etc. Right now, DGN8 are for display only and DWG are for display and export in EXPORT to CAD. The chart below sums up the current capabilities of the different CAD formats in HYPACK®.

TABLE 1. *Capabilities of CAD Files in HYPACK®*

Program	DWG	DXF	DGN v8	Old DGN
Drawing Engine	ODA	ODA	ODA	HYPACK
Display in HYPACK® Shell, HYPLOT and SURVEY	x	x	x	x
Query Objects		x		x
EXPORT from EXPORT TO CAD	x	x		x
EXPORT from other HYPACK programs		x		
Source charts in ENC EDITO and CHANNEL CONDITION REPORTER		X		X

The goal over the next year is fill that chart and hopefully move all the drawing to the ODA libraries. The advantage is a more complete representation of the chart and easier integration with newer versions. The disadvantage is the drawing speed is a little slower.

If you have any questions about the CAD formats, please feel free to contact me at nuzzi@hypack.com.

Below are a few screen shots of the new formats.

FIGURE 1. *DGN v8 in HYPACK 2010 Shell*

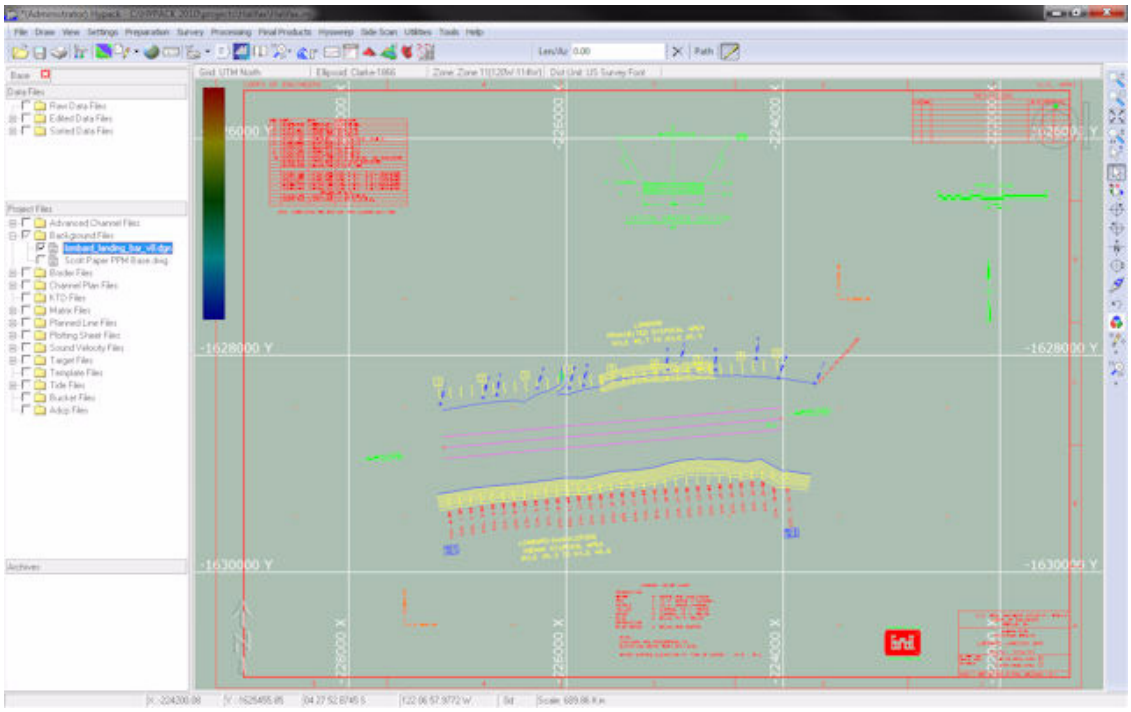

FIGURE 2. *Zoomed in area of DGN v8 in HYPACK 2010 Shell*

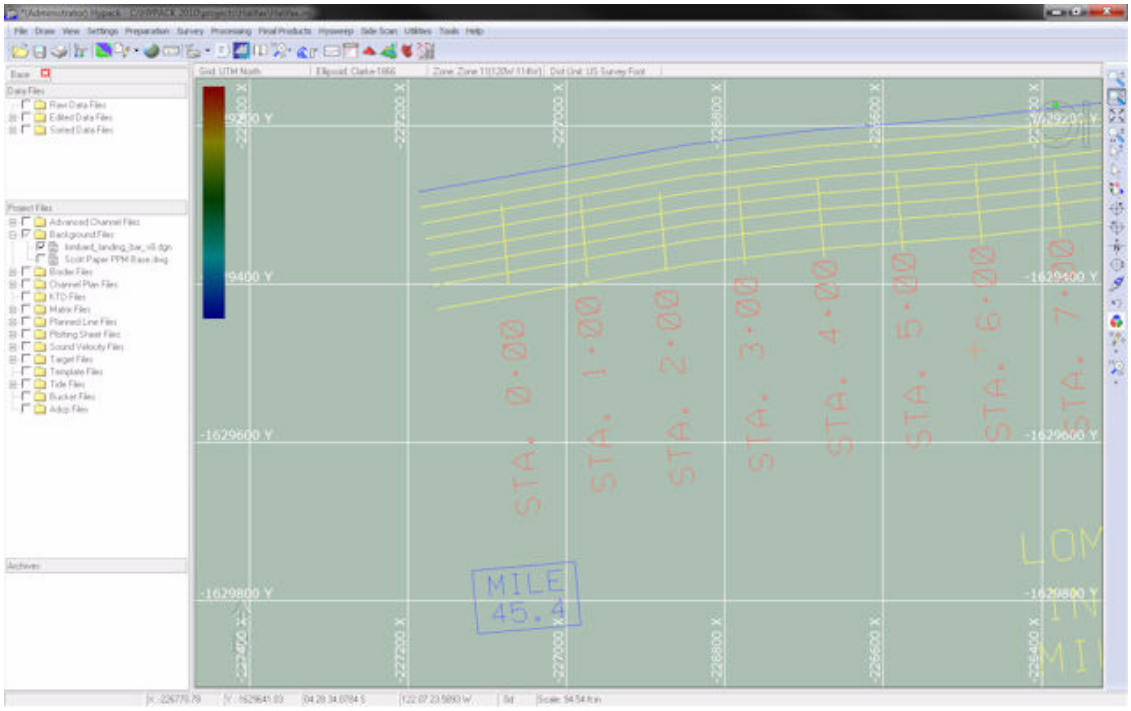

FIGURE 3. *DWG in HYPACK 2010 Shell*

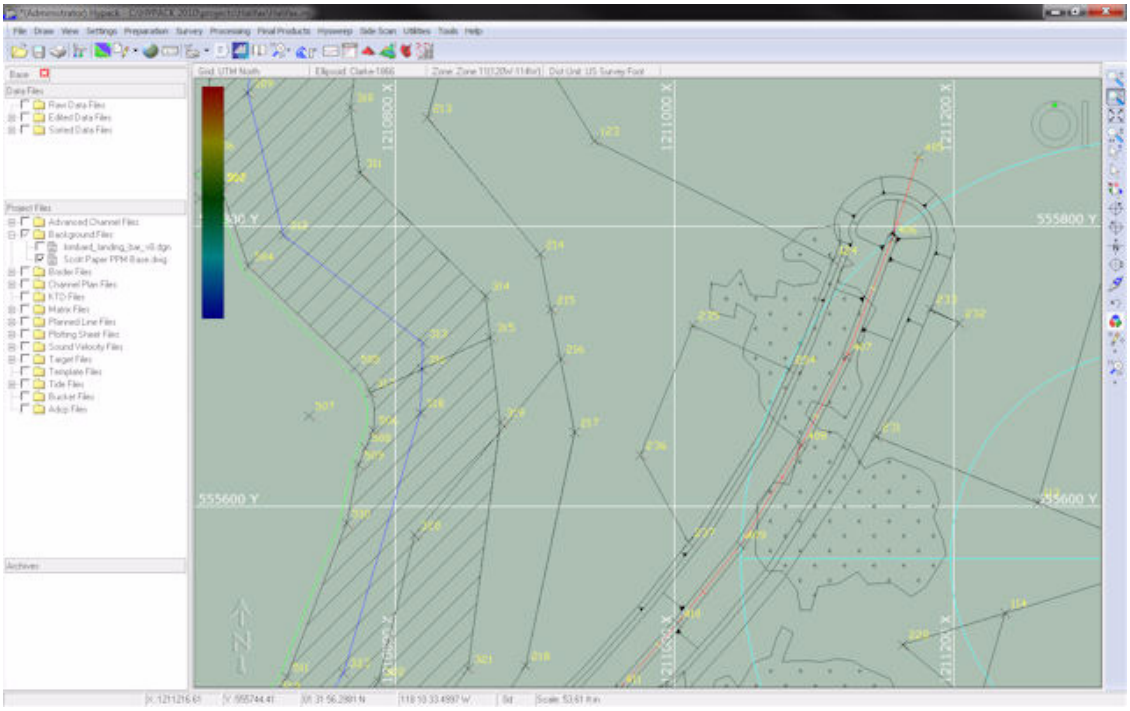

FIGURE 4. *3D z rotated view of DWG in HYPACK 2010 Shell*