Assign Coordinate Systems

ASSIGN A COORDINATE SYSTEM TO A DGN FILE

Native MicroStation has the ability to assign a coordinate system to a file. This allows for geo-referencing of rasters, geo-referencing of references and coordinate system transformations that previously was only available with Bentley Geographics.

1. Open DGN file.

2. Open Select Geographic Coordinate System dialog. **(Tools > Geographic > Select Geographic Coordinate System)**

3. Click the From Library Button.

4. Select the appropriate coordinate system from the library:

   a. Under the Favorites folder the defaults for Minnesota Counties Survey Foot exist.

   b. Additional Libraries for Minnesota can be found at: Library > Projected (northing, easting..) > North America > United States of America > Minnesota > Minnesota DOT Counties > Older Counties > US Survey Foot >

Note: Another option is to use the "Search" tab. Search for the county coordinate system that you want to attach.

Note: To add Favorites see: MS_CustomWorkspace.doc for setup. If you often use that coordinate system you can click the "Add to Favorites" button. This will add it to the Favorites folder on the Library tab. Your workspace be setup to add to the favorites.

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5. Highlight the appropriate coordinate system.

6. Click **OK**.

COORDINATE SYSTEM TRANSFORMATIONS

If a coordinate system is already assigned to a DGN and a new coordinate system is assigned a prompt displays as to whether you want to correct or reproject the data:
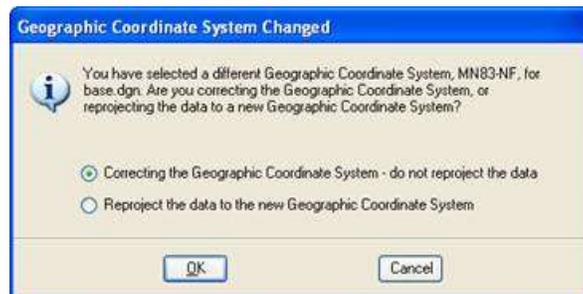
REPROJECTING COORDINATE SYSTEMS IN REFERENCES

Assign a coordinate system to a base file, assign a coordinate system to a reference file.

Attach the reference file to the base file and change the Georeferenced setting to "Reprojected." This changes the orientation. The GeoCS shows what coordinate system the reference originated from.

For more information see "Reprojecting Images" in MicroStation Help.
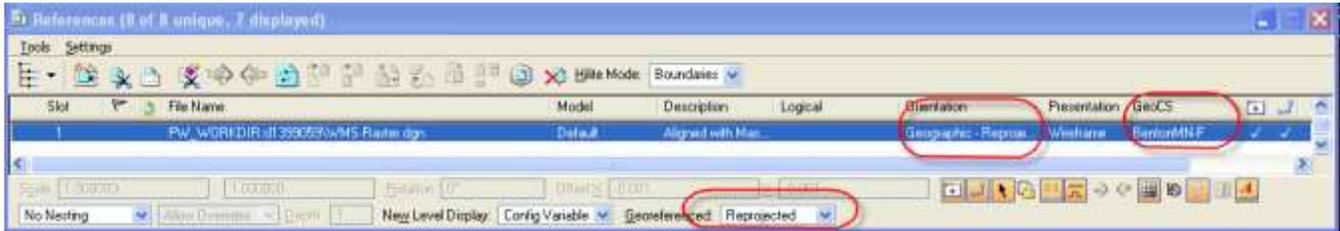
REPROJECTING COORDINATE SYSTEMS IN RASTER MANAGER

If both the dgn and the raster have a coordinate system that is defined differently, set the attachment setting to "Not Inherited" when attaching.

Another option in Raster Manager is to display the column "Inherit GeoCS from Model". Right click on the column headings to display the popup menu and select the heading. Then click the checkmark off.
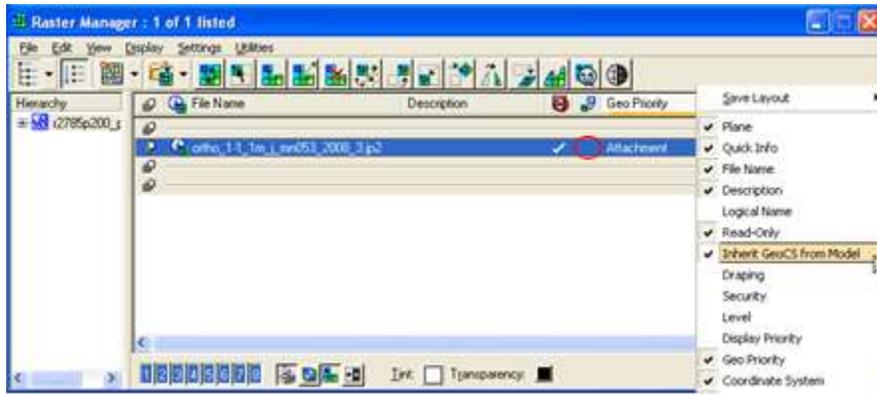
Alternatively you can set the "Inherit GeoCS from Model" to "Not Inherited" in your Preferences. Then when you attach any georeferenced image and you have your MicroStation file set to the proper County Coordinates the photos will just appear correctly when attached.