

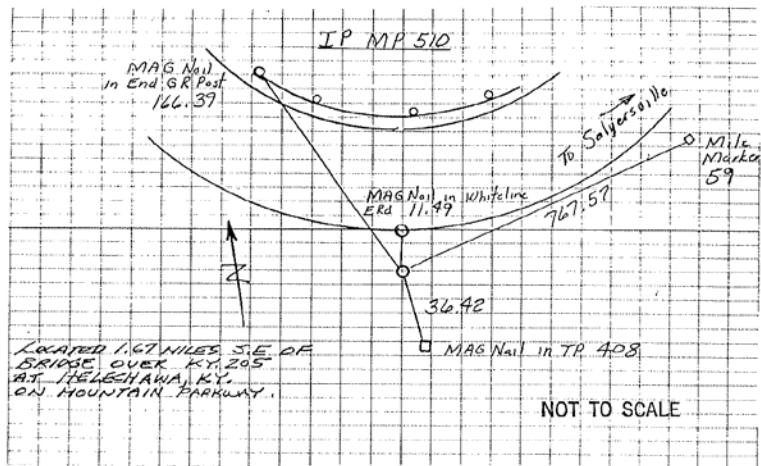


Translating From North/South Zone to KY Single Zone w/ Project Datum Factor

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1. You must know the project factor. The factor can be found on the Control Monument information sheet. See example below.

Control Monument Information Sheet					
 <div style="text-align: center;"> Kentucky Transportation Cabinet Department of Highways Division of Design Survey Coordination </div> 					
Site/Quad Cannel City, KY	Station Description (Description is to be complete) (type, size, depth, set, etc.) 5/8" Steel Rebar with 2" Aluminum Cap Driven to 46" Depth			Station Designation M-P #510 Primary Control	
Locality/County Adele, KY Morgan County				Stamping on Mark KYDOH ASC M-P #510 (1998)	
Date Set or Found (Date, with S or F) November 1998 (S)	Latitude 37-45-17.280637	Longitude 83-18-53.380690	Horiz. Datum Lambert NAD83 (1993)	Zone KY South 1602	Vert. Datum NAVD 1988
	Northing (State Plane) (U.S. Feet) 2167040.014	Easting (State Plane) (U.S. Feet) 2344377.327	Elevation (U.S. Feet) 978.77	(underline only one) GPS Derived Diff. Levels	Order Accuracy 2nd Order
Person filling out form Grover C. Jones	Northing (Mapping) (U.S. Feet) 2167187.539	Easting (Mapping) (U.S. Feet) 2344536.708	Geoid Model GEOID 96	Additional Information Central Project Point M-P #548	
Established by Agency Air Survey Corporation	Project Factor 1.00006798462	Back Station I.D. M-P #509	Grid Azimuth & Distance to back station 116-21-01.63 1099.97		
Scale Factor 0.99997129	Plan Factor 0.99996072	Ahead Station I.D. M-P #511	Grid Azimuth & Distance to ahead station 268-25-40.81 1147.29		
Kentucky Registered Land Surveyor In charge of monumentation Grover C. Jones			Ky. Registration No. 1536		
Give a complete sketch and location description so that monument may be recovered by others					
					

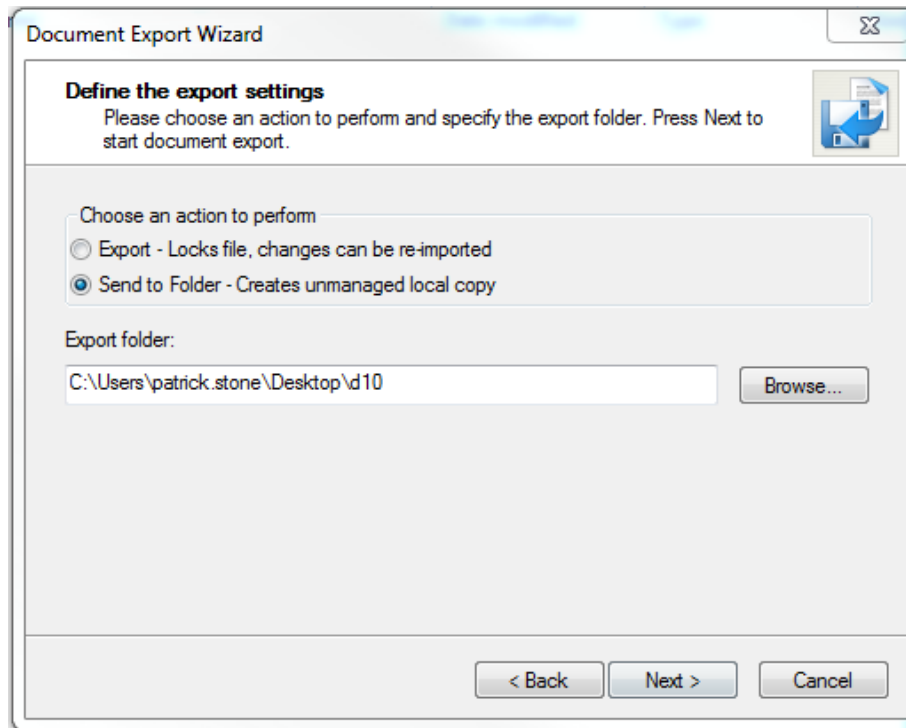
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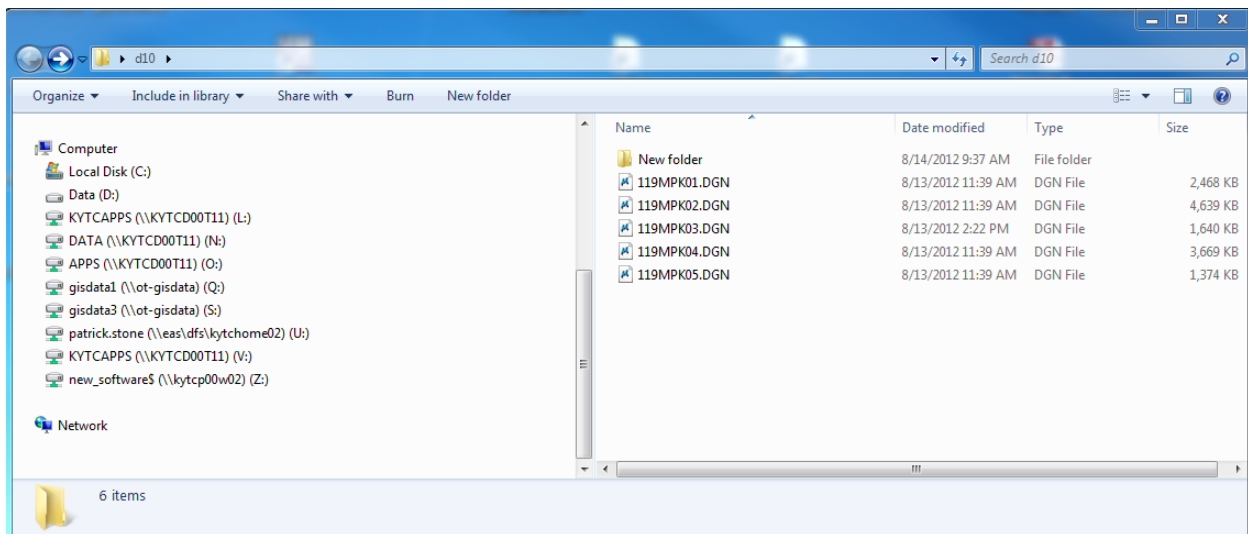
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2. Start ProjectWise and navigate to your project files and export the files to your local drive to be translated, as this command does not currently work inside ProjectWise. See below.



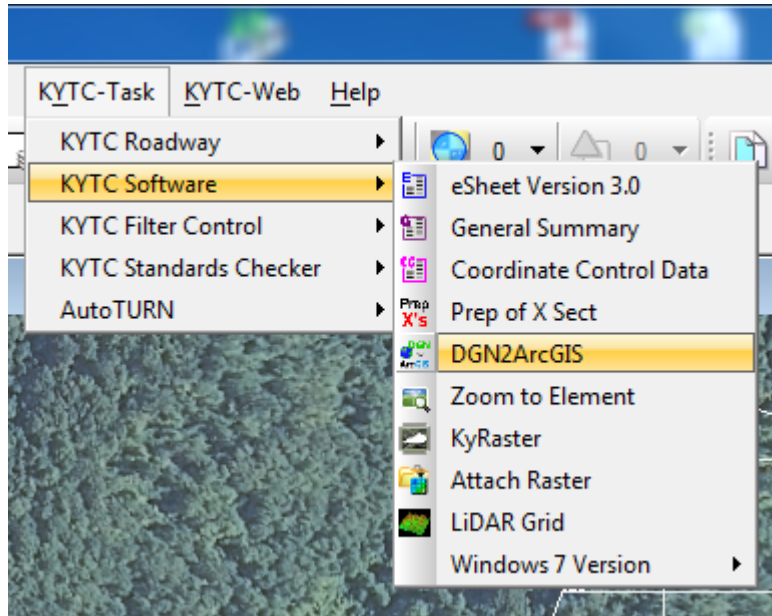
3. In this example I will only do five files, but you may translate as many as needed. See below.



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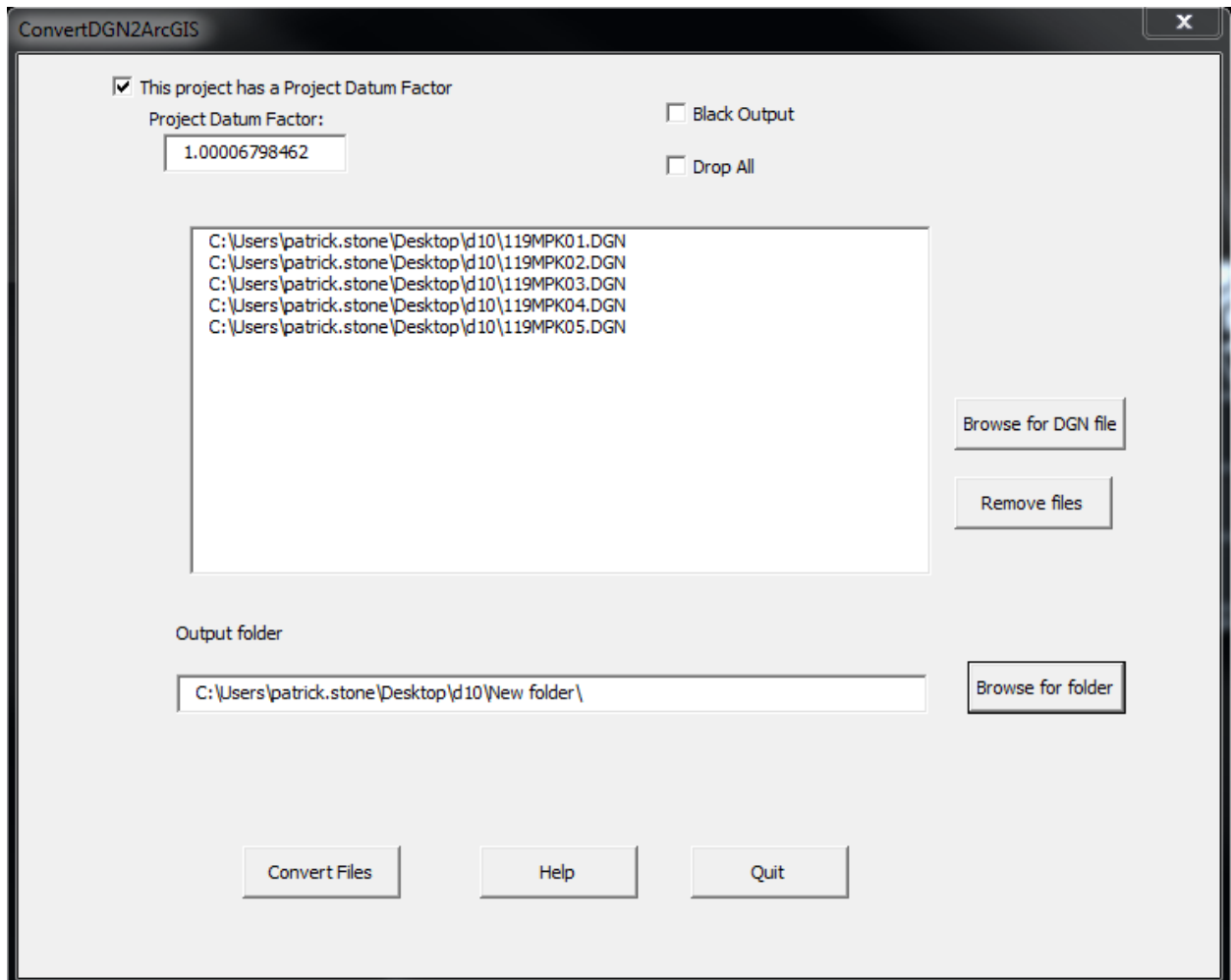
4. Open a design file in ProjectWise so that you can get the "KYTC Software" pallet. If you have the workspace installed on your local machine, that's fine also.
5. Start Mirostation. Select the KYTC-TASK pull down, select KYTC Software, then DGN2ArcGIS. This command is used to export your file from MicroStation to ArcGIS. It will also work for changing from Kentucky North to South to Single Zones. Please note that this command will copy into the file any reference files attached. It is advised to detach references before continuing. See below.



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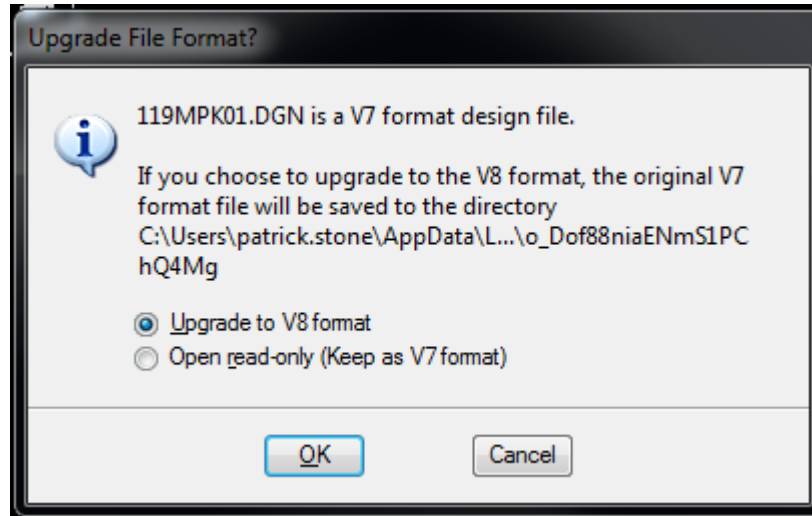
- This project has a project datum factor. The project datum factor for this job is 1.00006798462. This is on the Control Monument information sheet. Set the Project Datum Factor, click Browse for DGN file and select the files from your local machine, wherever you exported them. Select Output folder; this example has the folder name as New folder. Select the Convert Files button. See below.



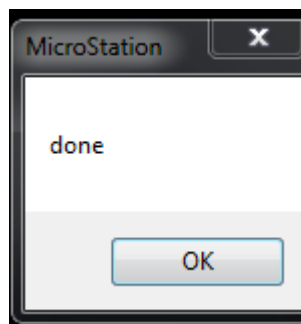
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7. You will be asked to convert to version 8 if your files are not already in V 8. I allowed the Upgrade to V8 format. You will be prompted for each file not already in V8. See below.



8. When complete you will get a done box, select OK. See below.

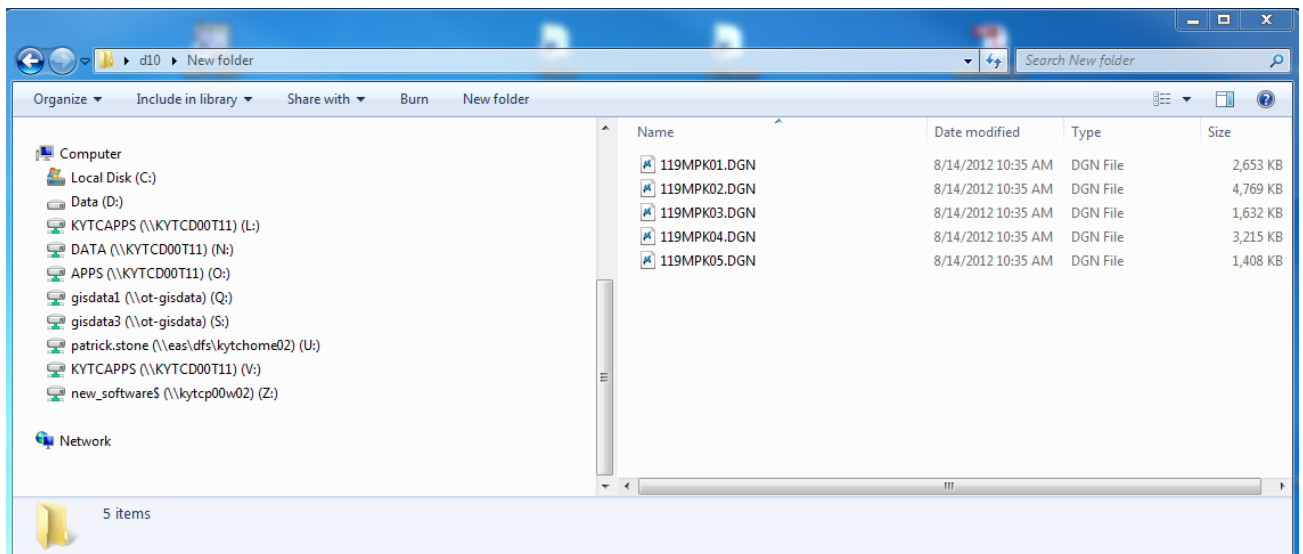


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The steps outlined above have scaled your files per the Project Datum Factor. Next, we will assign the original coordinate system, in this case the South zone, to the files and change them to Single Zone. Changing the files to Single zone will have to be done one file at a time. This step can be done in ProjectWise or on the local drive. The steps are as follows.

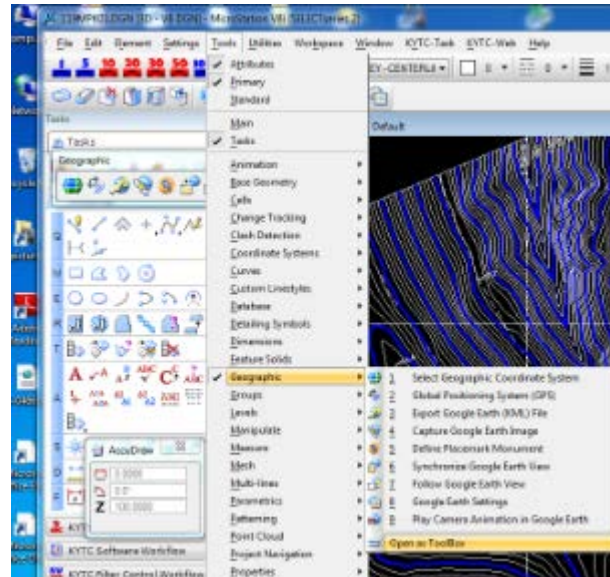
1. Open the design file. In this example the rescaled files are located on the Desktop d10/New Folder. See below.



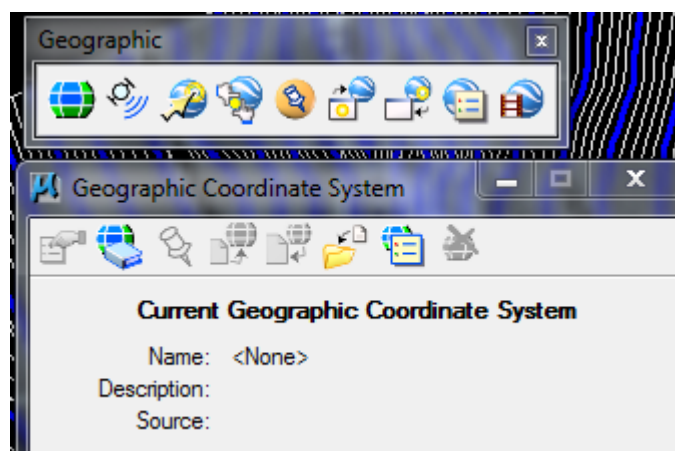
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2. Open the Geographic tool box. Tools>Geographic>Open as tool box. See below.



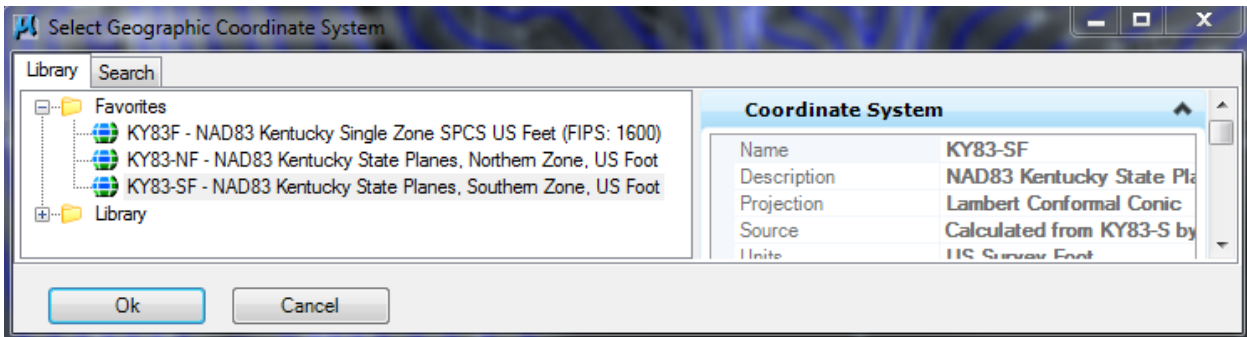
3. Now that the Geographic tool bar is open, select Geographic Coordinate System, which is the first icon that looks like a globe. Please note that at this point, there is no Coordinate System attached. See Below.



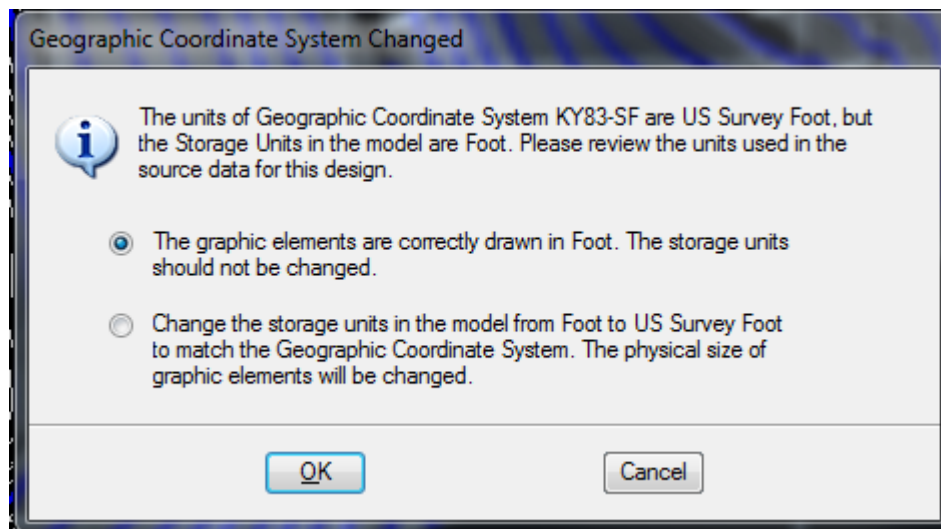
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4. We know that this project's Coordinate System is currently in South Zone. Select KY83-SF-NAD83 Kentucky State Planes, Southern Zone, US Foot. Select Ok. See below.



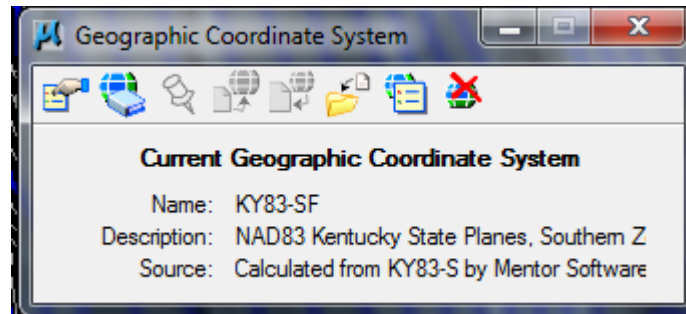
5. The graphic elements are correctly drawn in US Survey feet. The storage units should not be changed. Select Ok. See below.



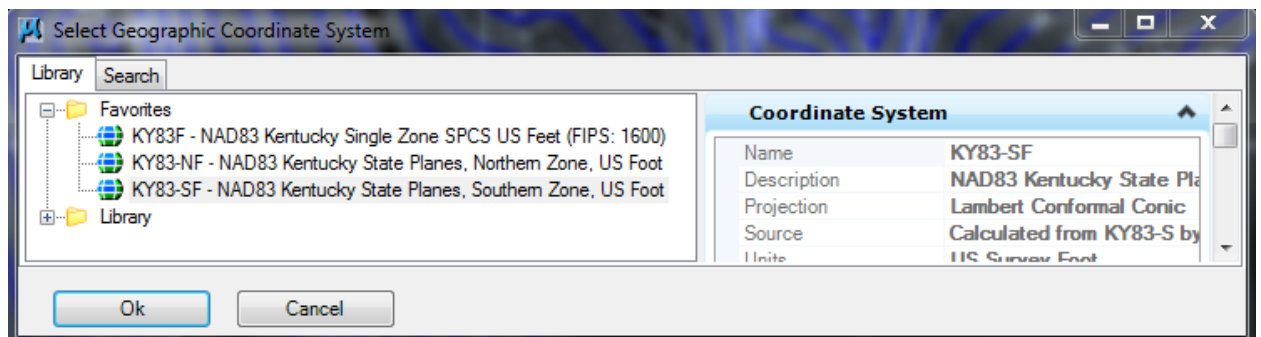
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- You have now successfully assigned the KY83-SF-NAD83 Kentucky State Planes, Southern Zone, US foot. See below.



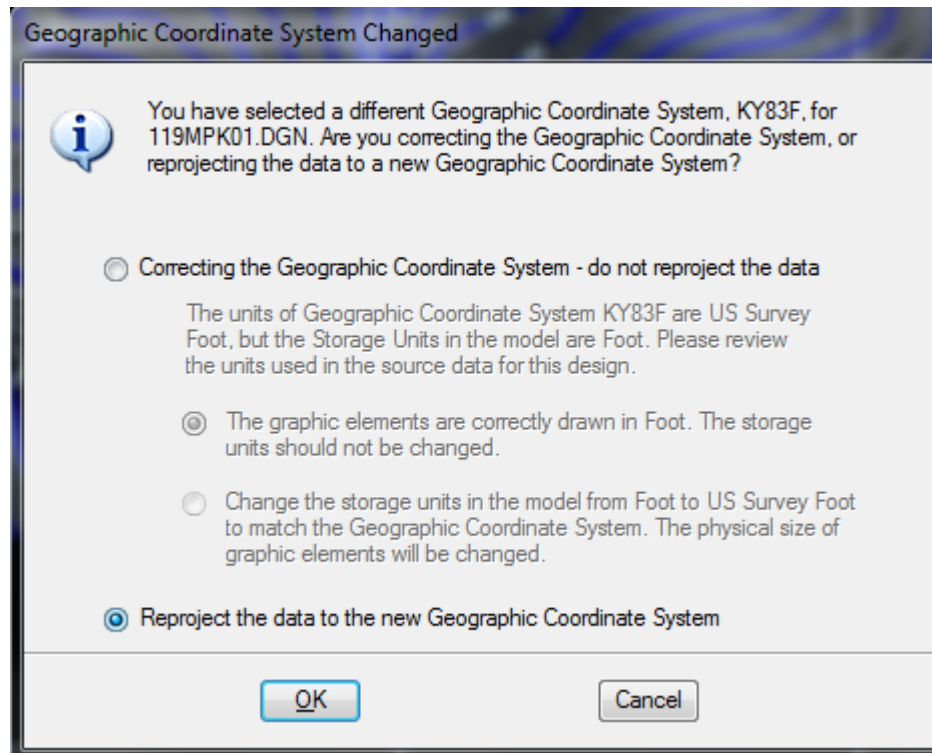
- Now that we have a coordinate system attached we will re-project the drawing to Single zone. Select the Geographic Coordinate System icon again, but this time we will choose KY83F-NAD83 Kentucky Single Zone SPCS US Feet(FIPS:1600) Select Ok. See below.



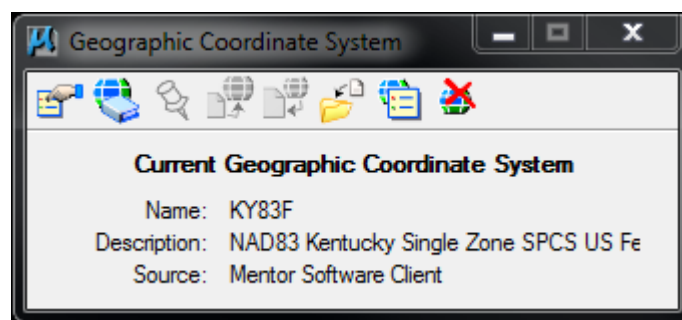
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8. You will be prompted that the Geographic Coordinate System has changed. Select **Reproject the data to the new Geographic Coordinate System**. Select Ok. See below.



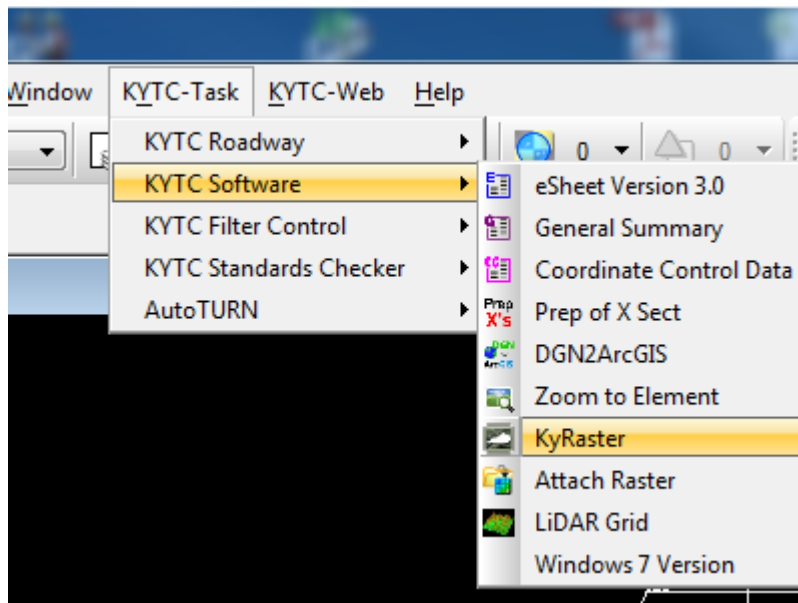
9. Fit view. You have now reprojected your data. The Current Geographic Coordinate System is now set to KY83F-NAD83 Kentucky Single Zone SPCS US Feet(FIPS:1600) Select Ok. See below.



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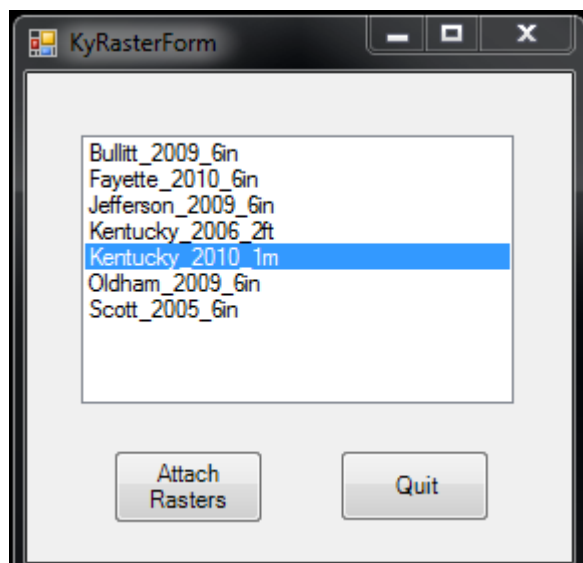
10. As a check, we will attach a Raster. Copy the corrected files back into ProjectWise, if you haven't already done so.
11. With the corrected files copied back in ProjectWise, it is suggested to place them in a new folder in ProjectWise called **Single Zone** or something along those lines. With the files back in ProjectWise, open one of the files.
12. From the KYTC-TASK menu select KYTC Software then KyRaster.



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13. Select the desired Raster. For this example we will select Kentucky_2010_1m then hit the Attach Rasters button. You raster will begin to attach.



14. Check raster alignment.