KYTC Layout Map Generator 10/30/2014

To create the maps for the layout sheet on a KYTC project, follow the following steps.

1. In MicroStation, open a new file to create your layout sheet. Add your centerlines then go to KYTC-Web>Kentucky Transportation Cabinet>KYTC Layout Sheet Map Generator.



2. This will open an internet window and start the GIS application to export your map.



3. Zoom into your project location. If possible, get the nearest town in the map for reference purposes.



4. This has updated the other two maps by highlighting the county/counties in the state view and placed a box around the detail area in the county map. Now you can export the map to attach in MicroStation. Select the "Export Map" button. The Map Layout is the image you will get even if Basemap is selected. The Basemap option is to help you locate your project.



5. Select the proper coordinate system (KY Single Zone, KY North Zone or KY South Zone). You can change the DPI if you wish; however, there is no appreciable improvement in print quality between 250 DPI and 600 DPI. Once you have these options set, select "Export". This will begin the export process. There will be two files exported, and they need to be named identically and kept in the same folder as the design file. If you are using ProjectWise, you will need to save the files on your hard drive then put them in the ProjectWise folder with the design file. One is the image itself in TIF format; the other is the world file (TFW) which will tell the image where to display in the design file. It is important that they are named identically or else MicroStation will not know where to place the image.

Export Image Options:	×
Tiff Image DPI: 250 V	
Projection: Kentucky Single Zone ~	
File name: FRANKLIN2054	

6. Return to your MicroStation design file then select KYTC-Task>KYTC Software>Attach Raster.



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- Click "OK" in the Attach Raster window as well; if everything was set correctly, you should not have to change any settings in this window and you should now see the man with your alignment as
- 3. Click "OK" in the Attach Raster window as well; if everything was set correctly, you should not have to change any settings in this window and you should now see the map with your alignment as shown below.



7. Point to the .tif image you just exported and select "Open".

9. Now place the layout sheet cell. Below is an example of the sheet cell. Note the shape labeled "Map Outline Shape".



10. Select the "Place Cell" tool and adjust the tool setting as show below.

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 ☐ <u>True Scale</u> ☐ <u>Relative</u> ☐ <u>Mirror:</u> Horizontal ▼ ☑ <u>Interactive</u> <u>Scale Only</u> ▼ ☐ <u>Patten</u> <u>Top</u> ▼ ☐ <u>Scale Multi-line Offsets</u> ☑ <u>Scale Dimension Values</u> ☑ Scale <u>Dimension Values</u> ☑ Scale <u>Annotations</u> ☐ Association 						

11. For the first point, snap to the lower left corner of the map image raster attachment and click a data point.



- 12. For the second placement point of the layout sheet cell, move the mouse to the upper right until the Map Outline Shape in the cell is visible outside of the map image raster attachment (shown as the yellow lines in the image above).
- Tasks 💁 Tasks 18 17 0---0 17 2 2 Copy 1 -1 2 Drawin 2 Move Q 3 Scale W Rotate 4 F 5 Mirror
- 13. Next scale the layout sheet to fit the image. Select the "Scale" tool.

a. Adjust the tool setting as shown below.

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- b. Select the layout sheet cell by clicking anywhere on the cell.
- c. Place a data point on the lower left corner of the map image raster attachment. This is called the Origin point and is the point to scale about.
- d. Place a data point on the lower right corner of the Map Outline Shape of the layout sheet cell. This is the called the reference point.
- e. Place the final data point on the lower right corner of the map image raster attachment. This point defines the amount of scaling.
- f. Place a text element that reads "NOT TO SCALE" on the layout sheet.

When you are finished the layout sheet will look as shown below. The scale of the sheet doesn't matter. When you create a PDF or print the sheet it will automatically be $36'' \times 22''$.

