

Title Sheet Documentation

Download T.D.O.T. Roadway Design Division County map(s) to your Working Project Folder:

Page | 1

1. Go to
<http://www.tn.gov/tdot/topic/chief-engineer-design-tennessee-map-files-for-microstation>
2. Download the county map(s) to your project folder. In the **Power Archiver** extraction dialog click on the “...” browse button and go to your project folder. Then click on **Start** to download the file(s). Note if you download a **dgn** only or a **dgn** and a **tif** file.

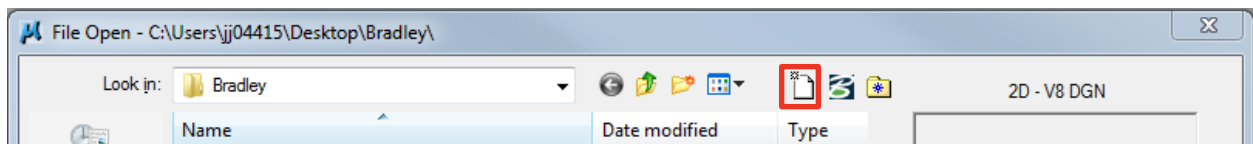
The files are listed by county name. All maps are in NAD 83 English mapping coordinates as set up in the standard T.D.O.T. Design Division English MicroStation DGN seed file. Graphics are set for scale 1" = 5280'

Attach the County Map(s) to a New Title Sheet

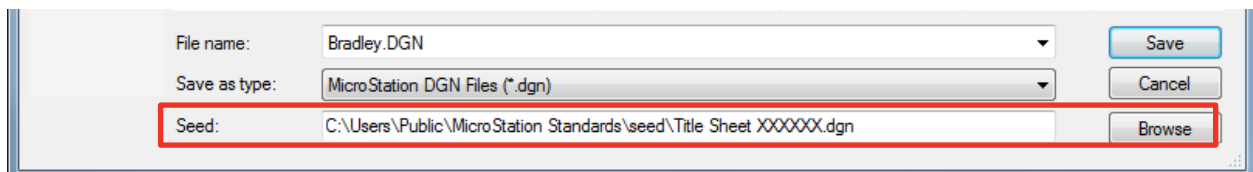
We provide two methods to create a title sheet. The difference between both methods is that method #1 provides both Preliminary and R.O.W. Index Of Sheet embedded in the seed file. In method #2, you will need to attach the index yourself.

Method #1:

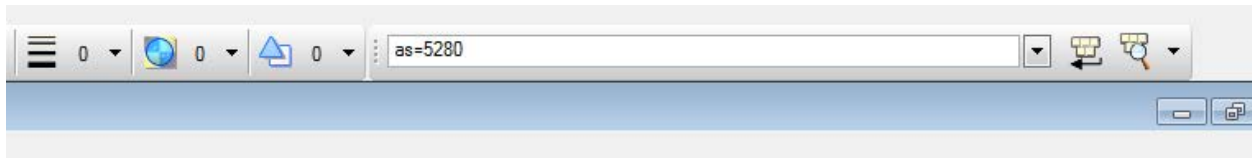
1. Create a new DGN file for the title sheet.



2. Select a new seed file named: **Title Sheet XXXXXX.dgn** (XXXXXX – revision date)



3. Name the file **001.sht**. See document [CADDV8.pdf](#), section **Standard Filenames** for information on filenames.
4. Reference your alignment DGN file to the title sheet DGN file.
5. Set the active scale = 5280.



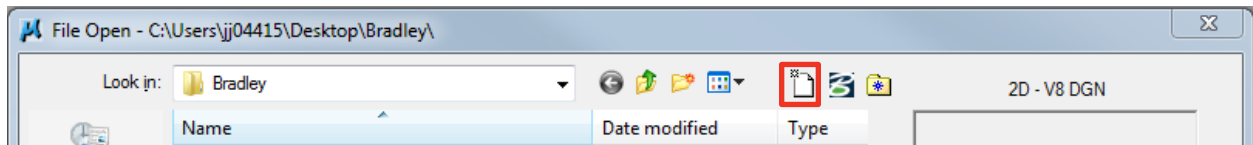
6. Reference the county DGN file to the title sheet DGN file. In MicroStation go to **File → References**. In the **Reference** dialog box, go to **Tools → Attach** and select the county DGN file. Set Attachment Method to **Coincident** (or Coincident World) and select **OK**.
If a large green box is seen around the county area, which means a TIF raster image file also needs to be attached.
7. If needed, attach the county TIF raster image file. In MicroStation go to **File → Raster Manager**. In the **Raster Manager** dialog box, go to **File → Attach → Raster** and select the county TIF file. Click on the options to **Place Interactively**. Select **OK** and pick two diagonal corners of the large green box.
8. Fence the map area you need on the title sheet and do a clip boundary for both the DGN county file and the TIF county file as needed.
 - a. In the **Reference File** dialog box, select the county map dgn, go to **Tools → Clip Boundary**. In the MicroStation Tool Settings box set Method to **Active Fence**, click on **Use References Dialog List** and data point to accept.
 - b. In the **Raster Manager** dialog box, select the county tif file, go to **Edit → Clip**. In the MicroStation Tool Settings box set Method to **Fence**, Mode to **Clip Boundary** and data point to accept.
9. In MicroStation, turn off level **DESIGN - SCRATCH - User 1, (#30)**, in the county DGN reference and go to **File → Save Settings**.

Note:

The title sheet will plot at 1" = 5280'.

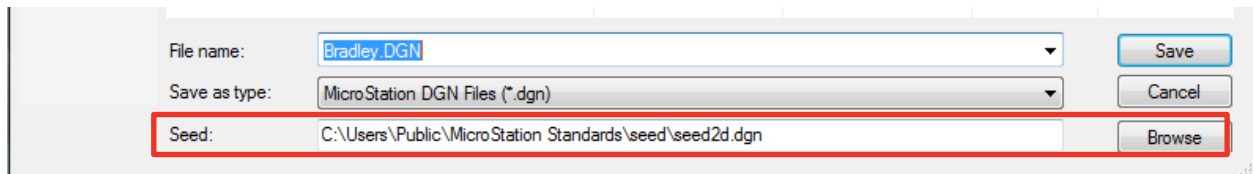
Method #2:

1. Create a new DGN file for the title sheet.

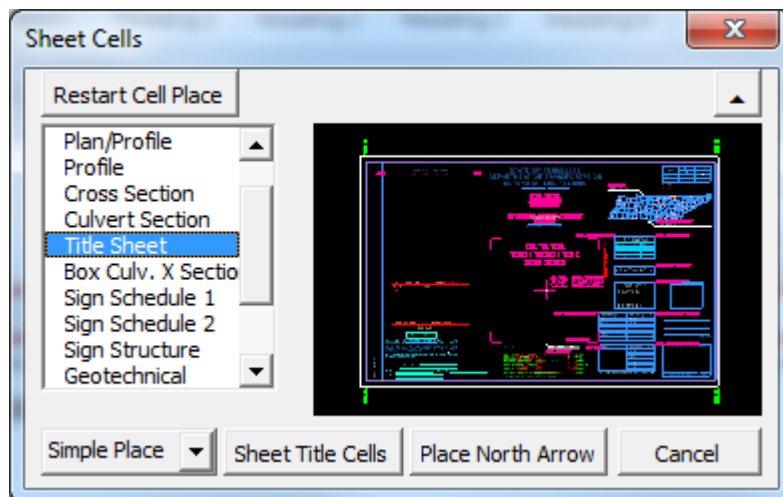


Page | 3

2. Select a new seed file named: **seed2d.dgn** (XXX



3. Go to T.D.O.T. pulldown and select **Sheet Cells**, select **Title Sheet**



To link the word document for the Preliminary and R.O.W. Index of Sheet, please refer to **"PRELIMINARY INDEX TITLE SHEET XXXXXX.dotx"** or **"RIGHT OF WAY INDEX TITLE SHEET XXXXXX.dotx"** located [HERE](#).

NOTE: The **Preliminary Index Title Sheet** should be placed of level **410** and **Right Of Way Index Title Sheet** on level **411**. Use the ORIGIN snap points to ensure proper placement of the index sheet.

Index Of Sheets	
TITLE SHEET	1
TYPICAL SECTIONS	2, 2A1, 2A2
DETAIL SHEETS	2B, 2B1, 2B2
RIGHT-OF-WAY NOTES, UTILITY NOTES and UTILITY OWNERS	3
RIGHT-OF-WAY ACQUISITION TABLE(S) and PROPERTY MAP(S)	3A - 3B
PRESENT LAYOUT(S)	4 - 10
RIGHT OF WAY DETAILS	4A - 10A
PROPOSED LAYOUT(S)	4B - 10B
PROPOSED PROFILE(S)	4C - 10C
RAMP PROFILE(S)	11 - 12
SIDE ROADS PROFILE(S)	13 - 14
PRIVATE DRIVE AND FIELD ENTRANCE PROFILE(S)	15 - 18
DRAINAGE MAP(S)	19 - 20
CULVERT CROSS SECTION(S)	21 - 22
ROADWAY CROSS SECTIONS	23 - 217
SIDE ROAD CROSS SECTIONS	218 - 268

- Please refer to steps 3 – 9 in the previous section to complete the title sheet.

Title Sheet Levels for Plan Phases

As of February 2017, filters for each phase stage have yet to be completed. To ensure that all title sheets display the correct phase, levels must be tuned on/off depending on the phase currently working on.

(☒ - required, ☐ - not required, ☒ ☐ - level can be on or off)

Page | 5

Table 1: TDOT – Preliminary

<input checked="" type="checkbox"/>	400	IDENTIFICATION BLOCK – TDOT
<input type="checkbox"/>	401	IDENTIFICATION BLOCK – CONSULTANT
<input checked="" type="checkbox"/>	402	Title Sheet – Text
<input checked="" type="checkbox"/>	403	Title Sheet – LINE WORK
<input checked="" type="checkbox"/>	404	MAP
<input checked="" type="checkbox"/>	405	MAP – TEXT
<input checked="" type="checkbox"/>	410	PHASE PRELIMINARY
<input type="checkbox"/>	411	PHASE RIGHT-OF WAY
<input type="checkbox"/>	412	PHASE CONSTRUCTION
<input checked="" type="checkbox"/>	420	Project Length – ROW
<input type="checkbox"/>	421	Project Length – Construction – Riding Surface
<input type="checkbox"/>	422	Project Length – Construction – Non Riding Surface
<input type="checkbox"/>	423	Project Length – Resurfacing – Riding Surface
<input type="checkbox"/>	424	Project Length – Resurfacing – Non Riding Surface
<input type="checkbox"/>	425	Project Length – Resurfacing – Only
<input checked="" type="checkbox"/>	430	Project Description – Preliminary
<input type="checkbox"/>	431	Project Description – Right-Of-Way
<input type="checkbox"/>	432	Project Description – Construction
<input checked="" type="checkbox"/> <input type="checkbox"/>	440	Revision – Text – ROW
<input type="checkbox"/>	441	Revision – Text – Construction
<input checked="" type="checkbox"/>	450	Traffic Data Block No1 – Survey Data
<input checked="" type="checkbox"/> <input type="checkbox"/>	451	Traffic Data Block No2
<input checked="" type="checkbox"/> <input type="checkbox"/>	452	Traffic Data Block No3
<input checked="" type="checkbox"/> <input type="checkbox"/>	453	DESIGN EXCEPTION BLOCK
<input checked="" type="checkbox"/> <input type="checkbox"/>	454	ROAD TO BE CLOSED BLOCK
<input checked="" type="checkbox"/> <input type="checkbox"/>	455	NO EXCLUSIONS BLOCK
<input checked="" type="checkbox"/> <input type="checkbox"/>	456	EXCLUSIONS BLOCK
<input checked="" type="checkbox"/>	460	County Map

Table 2: TDOT – Right-Of-Way

<input checked="" type="checkbox"/>	400	IDENTIFICATION BLOCK – TDOT
<input type="checkbox"/>	401	IDENTIFICATION BLOCK – CONSULTANT
<input checked="" type="checkbox"/>	402	Title Sheet – Text
<input checked="" type="checkbox"/>	403	Title Sheet – LINE WORK
<input checked="" type="checkbox"/>	404	MAP
<input checked="" type="checkbox"/>	405	MAP – TEXT
<input type="checkbox"/>	410	PHASE PRELIMINARY
<input checked="" type="checkbox"/>	411	PHASE RIGHT-OF WAY
<input type="checkbox"/>	412	PHASE CONSTRUCTION
<input checked="" type="checkbox"/>	420	Project Length – ROW
<input type="checkbox"/>	421	Project Length – Construction – Riding Surface
<input type="checkbox"/>	422	Project Length – Construction – Non Riding Surface
<input type="checkbox"/>	423	Project Length – Resurfacing – Riding Surface
<input type="checkbox"/>	424	Project Length – Resurfacing – Non Riding Surface
<input type="checkbox"/>	425	Project Length – Resurfacing – Only
<input type="checkbox"/>	430	Project Description – Preliminary
<input checked="" type="checkbox"/>	431	Project Description – Right-Of-Way
<input type="checkbox"/>	432	Project Description – Construction
<input checked="" type="checkbox"/> <input type="checkbox"/>	440	Revision – Text – ROW
<input type="checkbox"/>	441	Revision – Text – Construction
<input checked="" type="checkbox"/>	450	Traffic Data Block No1 – Survey Data
<input checked="" type="checkbox"/> <input type="checkbox"/>	451	Traffic Data Block No2
<input checked="" type="checkbox"/> <input type="checkbox"/>	452	Traffic Data Block No3
<input checked="" type="checkbox"/> <input type="checkbox"/>	453	DESIGN EXCEPTION BLOCK
<input checked="" type="checkbox"/> <input type="checkbox"/>	454	ROAD TO BE CLOSED BLOCK
<input checked="" type="checkbox"/> <input type="checkbox"/>	455	NO EXCLUSIONS BLOCK
<input checked="" type="checkbox"/> <input type="checkbox"/>	456	EXCLUSIONS BLOCK
<input checked="" type="checkbox"/>	460	County Map

Page | 6

Table 3: TDOT – Construction

<input checked="" type="checkbox"/>	400	IDENTIFICATION BLOCK – TDOT
<input type="checkbox"/>	401	IDENTIFICATION BLOCK – CONSULTANT
<input checked="" type="checkbox"/>	402	Title Sheet – Text
<input checked="" type="checkbox"/>	403	Title Sheet – LINE WORK
<input checked="" type="checkbox"/>	404	MAP
<input checked="" type="checkbox"/>	405	MAP – TEXT
<input type="checkbox"/>	410	PHASE PRELIMINARY
<input type="checkbox"/>	411	PHASE RIGHT-OF WAY
<input checked="" type="checkbox"/>	412	PHASE CONSTRUCTION
<input type="checkbox"/>	420	Project Length – ROW
<input checked="" type="checkbox"/>	421	Project Length – Construction – Riding Surface
<input checked="" type="checkbox"/>	422	Project Length – Construction – Non Riding Surface
<input type="checkbox"/>	423	Project Length – Resurfacing – Riding Surface
<input type="checkbox"/>	424	Project Length – Resurfacing – Non Riding Surface
<input type="checkbox"/>	425	Project Length – Resurfacing – Only
<input type="checkbox"/>	430	Project Description – Preliminary
<input type="checkbox"/>	431	Project Description – Right-Of-Way
<input checked="" type="checkbox"/>	432	Project Description – Construction
<input type="checkbox"/>	440	Revision – Text – ROW
<input checked="" type="checkbox"/>	441	Revision – Text – Construction
<input checked="" type="checkbox"/>	450	Traffic Data Block No1 – Survey Data
<input checked="" type="checkbox"/>	451	Traffic Data Block No2
<input checked="" type="checkbox"/>	452	Traffic Data Block No3
<input checked="" type="checkbox"/>	453	DESIGN EXCEPTION BLOCK
<input checked="" type="checkbox"/>	454	ROAD TO BE CLOSED BLOCK
<input checked="" type="checkbox"/>	455	NO EXCLUSIONS BLOCK
<input checked="" type="checkbox"/>	456	EXCLUSIONS BLOCK
<input checked="" type="checkbox"/>	460	County Map

Table 4: Consultant – Preliminary

<input type="checkbox"/>	400	IDENTIFICATION BLOCK – TDOT
<input checked="" type="checkbox"/>	401	IDENTIFICATION BLOCK – CONSULTANT
<input checked="" type="checkbox"/>	402	Title Sheet – Text
<input checked="" type="checkbox"/>	403	Title Sheet – LINE WORK
<input checked="" type="checkbox"/>	404	MAP
<input checked="" type="checkbox"/>	405	MAP – TEXT
<input checked="" type="checkbox"/>	410	PHASE PRELIMINARY
<input type="checkbox"/>	411	PHASE RIGHT-OF WAY
<input type="checkbox"/>	412	PHASE CONSTRUCTION
<input checked="" type="checkbox"/>	420	Project Length – ROW
<input type="checkbox"/>	421	Project Length – Construction – Riding Surface
<input type="checkbox"/>	422	Project Length – Construction – Non Riding Surface
<input type="checkbox"/>	423	Project Length – Resurfacing – Riding Surface
<input type="checkbox"/>	424	Project Length – Resurfacing – Non Riding Surface
<input type="checkbox"/>	425	Project Length – Resurfacing – Only
<input checked="" type="checkbox"/>	430	Project Description – Preliminary
<input type="checkbox"/>	431	Project Description – Right-Of-Way
<input type="checkbox"/>	432	Project Description – Construction
<input checked="" type="checkbox"/> <input type="checkbox"/>	440	Revision – Text – ROW
<input type="checkbox"/>	441	Revision – Text – Construction
<input checked="" type="checkbox"/>	450	Traffic Data Block No1 – Survey Data
<input checked="" type="checkbox"/> <input type="checkbox"/>	451	Traffic Data Block No2
<input checked="" type="checkbox"/> <input type="checkbox"/>	452	Traffic Data Block No3
<input checked="" type="checkbox"/> <input type="checkbox"/>	453	DESIGN EXCEPTION BLOCK
<input checked="" type="checkbox"/> <input type="checkbox"/>	454	ROAD TO BE CLOSED BLOCK
<input checked="" type="checkbox"/> <input type="checkbox"/>	455	NO EXCLUSIONS BLOCK
<input checked="" type="checkbox"/> <input type="checkbox"/>	456	EXCLUSIONS BLOCK
<input checked="" type="checkbox"/>	460	County Map

Table 5: Consultant – Right-Of-Way

<input type="checkbox"/>	400	IDENTIFICATION BLOCK – TDOT
<input checked="" type="checkbox"/>	401	IDENTIFICATION BLOCK – CONSULTANT
<input checked="" type="checkbox"/>	402	Title Sheet – Text
<input checked="" type="checkbox"/>	403	Title Sheet – LINE WORK
<input checked="" type="checkbox"/>	404	MAP
<input checked="" type="checkbox"/>	405	MAP – TEXT
<input type="checkbox"/>	410	PHASE PRELIMINARY
<input checked="" type="checkbox"/>	411	PHASE RIGHT-OF WAY
<input type="checkbox"/>	412	PHASE CONSTRUCTION
<input checked="" type="checkbox"/>	420	Project Length – ROW
<input type="checkbox"/>	421	Project Length – Construction – Riding Surface
<input type="checkbox"/>	422	Project Length – Construction – Non Riding Surface
<input type="checkbox"/>	423	Project Length – Resurfacing – Riding Surface
<input type="checkbox"/>	424	Project Length – Resurfacing – Non Riding Surface
<input type="checkbox"/>	425	Project Length – Resurfacing – Only
<input type="checkbox"/>	430	Project Description – Preliminary
<input checked="" type="checkbox"/>	431	Project Description – Right-Of-Way
<input type="checkbox"/>	432	Project Description – Construction
<input checked="" type="checkbox"/> <input type="checkbox"/>	440	Revision – Text – ROW
<input type="checkbox"/>	441	Revision – Text – Construction
<input checked="" type="checkbox"/>	450	Traffic Data Block No1 – Survey Data
<input checked="" type="checkbox"/> <input type="checkbox"/>	451	Traffic Data Block No2
<input checked="" type="checkbox"/> <input type="checkbox"/>	452	Traffic Data Block No3
<input checked="" type="checkbox"/> <input type="checkbox"/>	453	DESIGN EXCEPTION BLOCK
<input checked="" type="checkbox"/> <input type="checkbox"/>	454	ROAD TO BE CLOSED BLOCK
<input checked="" type="checkbox"/> <input type="checkbox"/>	455	NO EXCLUSIONS BLOCK
<input checked="" type="checkbox"/> <input type="checkbox"/>	456	EXCLUSIONS BLOCK
<input checked="" type="checkbox"/>	460	County Map

Table 6: Consultant – Construction

<input type="checkbox"/>	400	IDENTIFICATION BLOCK – TDOT
<input checked="" type="checkbox"/>	401	IDENTIFICATION BLOCK – CONSULTANT
<input checked="" type="checkbox"/>	402	Title Sheet – Text
<input checked="" type="checkbox"/>	403	Title Sheet – LINE WORK
<input checked="" type="checkbox"/>	404	MAP
<input checked="" type="checkbox"/>	405	MAP – TEXT
<input type="checkbox"/>	410	PHASE PRELIMINARY
<input type="checkbox"/>	411	PHASE RIGHT-OF WAY
<input checked="" type="checkbox"/>	412	PHASE CONSTRUCTION
<input type="checkbox"/>	420	Project Length – ROW
<input checked="" type="checkbox"/>	421	Project Length – Construction – Riding Surface
<input checked="" type="checkbox"/>	422	Project Length – Construction – Non Riding Surface
<input type="checkbox"/>	423	Project Length – Resurfacing – Riding Surface
<input type="checkbox"/>	424	Project Length – Resurfacing – Non Riding Surface
<input type="checkbox"/>	425	Project Length – Resurfacing – Only
<input type="checkbox"/>	430	Project Description – Preliminary
<input type="checkbox"/>	431	Project Description – Right-Of-Way
<input checked="" type="checkbox"/>	432	Project Description – Construction
<input type="checkbox"/>	440	Revision – Text – ROW
<input checked="" type="checkbox"/>	441	Revision – Text – Construction
<input checked="" type="checkbox"/>	450	Traffic Data Block No1 – Survey Data
<input checked="" type="checkbox"/>	451	Traffic Data Block No2
<input checked="" type="checkbox"/>	452	Traffic Data Block No3
<input checked="" type="checkbox"/>	453	DESIGN EXCEPTION BLOCK
<input checked="" type="checkbox"/>	454	ROAD TO BE CLOSED BLOCK
<input checked="" type="checkbox"/>	455	NO EXCLUSIONS BLOCK
<input checked="" type="checkbox"/>	456	EXCLUSIONS BLOCK
<input checked="" type="checkbox"/>	460	County Map

Other Mapping files

T.D.O.T. Planning Division Maps:

City and Planimetric Maps at scale 1" = 1000' or 1" = 2000'

Many city and county maps are available in PDF format on T.D.O.T. website at

[City Maps](#)

[County Maps](#)

Page | 11

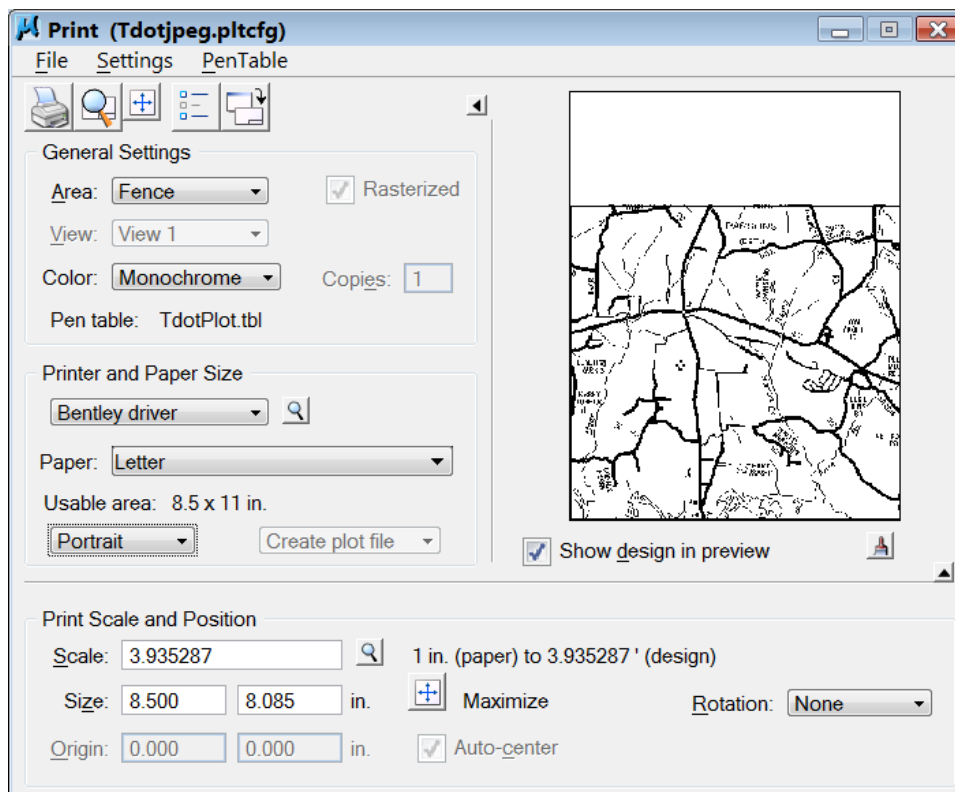
Consultants can request Planning Division map files from the T.D.O.T. website at

<http://www.tn.gov/tdot/topic/map-ordering>

Using City and Planimetric maps or Other Non-NAD 83 Maps

1. Open the mapping DGN file Use **Coborder.dgn** if there is no DGN for the CIT.
2. If needed, attach the CIT raster file with **Raster Manager**. Click **off** the option to **Place Interactively**.
3. Draw a box the size required for the map area.
Box size = Inches Plotted times the map scale
Example: 10" (plotted) x 1000' (city map and planimetric scale) = 10000' box.
4. Set the view attributes to **Line Weights** on, **Data Fields** off, **Fill** on.
5. Place a fence around the box.
6. Use MicroStation Print to create a JPG file. Go to **File** → **Print**.

Attach the **Tdotjpeg.pltcfgr** plotter driver. Go to **File** → **Select Bentley Driver**



Go to **File → Print** (first icon) and save the JPG file to the project folder.

In a Design Division Title Sheet DGN file:

7. Draw the map box in your title sheet DGN file (use same size as used to create the JPG file).
8. In MicroStation go to **File → Raster Manager**. In the **Raster Manager** dialog box, go to **File → Attach** and select the map JPG file. Click on the options to **Place Interactively**. Select **OK** and pick two diagonal corners of the map box.