

# CDOT Exporting Fieldbook Files



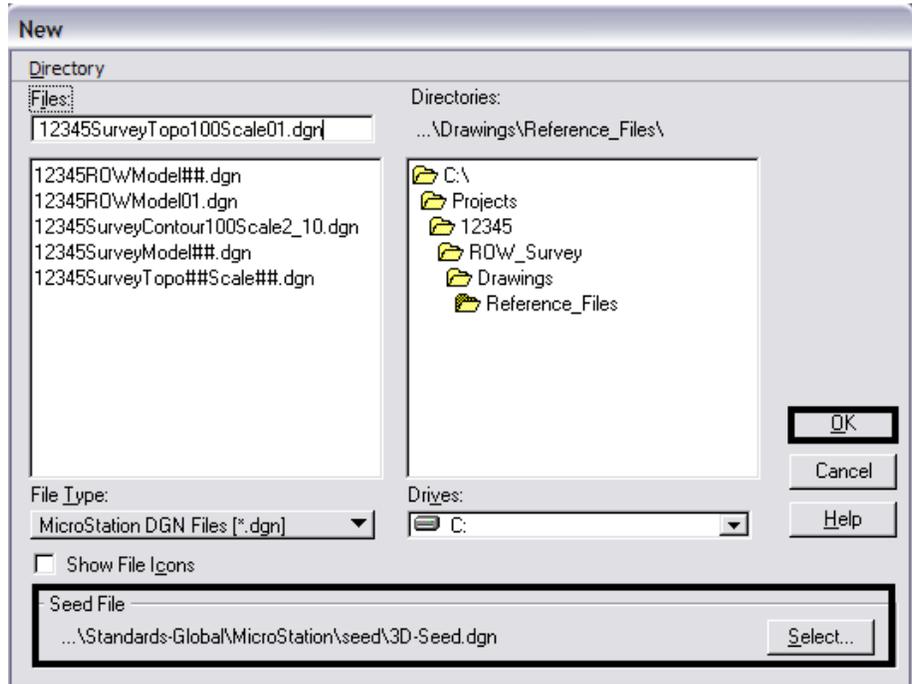
This document guides you through saving survey fieldbook information to separate MicroStation files for ease of referencing and level control.

## Exporting a Fieldbook File

### Creating a new file

1. From the MicroStation pull-down menu select **File > New**. The **New** dialog will appear.
2. Navigate to the project directory folder **Reference\_Files** by **double clicking** the directory folders.

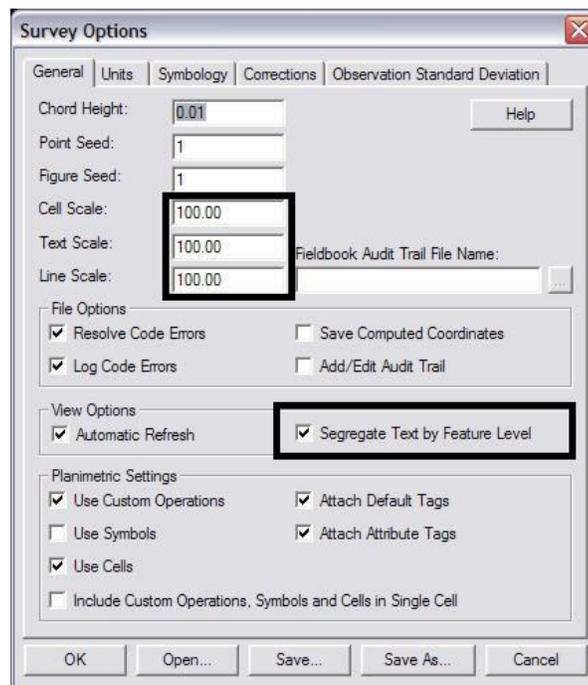
At the bottom of the dialog box verify that the seed file is set to **3D-Seed.dgn**.



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**Notes:** If *3D-Seed.dgn* is not the current seed file, **Click** the **Select** button and chose *3D-Seed.dgn* as the seed file.

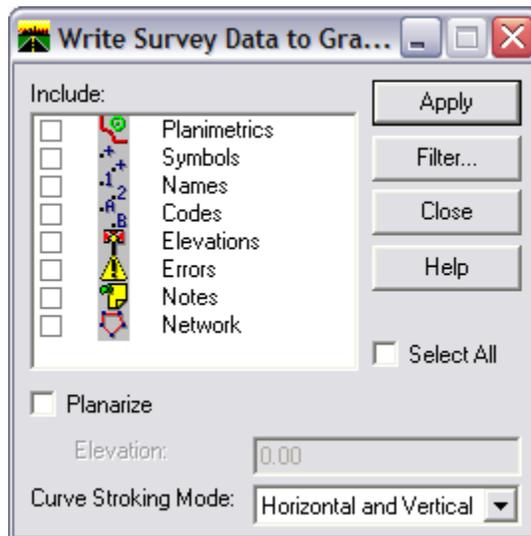
3. Key in the file to be created: *12345SurveyTopo100scale01.dgn*
4. Click the **OK** button in the **New** dialog. The **New** dialog will close and the file 12345SurveyTopo100scale01.dgn will open.
5. Disable the view display of dynamic survey graphics shown on the screen. Toggle off the View Planimetrics icon  or any other symbols, names, codes, etc. that may be enabled.
6. Verify the correct fieldbook is active. The active fieldbook is indicated by a red box around the fieldbook icon in the InRoads workspace pane.
7. To modify the scale as it relates to cells, text, and linestyles select **Tools > Survey Options**. The **Survey Options** dialog will appear.
8. On the **General** tab verify the Scales for *Cell*, *Text*, and *Line* are set as shown below.
9. Verify the check box *Segregate Text by Feature Level* is ON



**Note:** Segregate Text by Feature Level, if checked on, will save the symbols, point names, codes, notes, errors, and elevations to the same level as the survey feature.

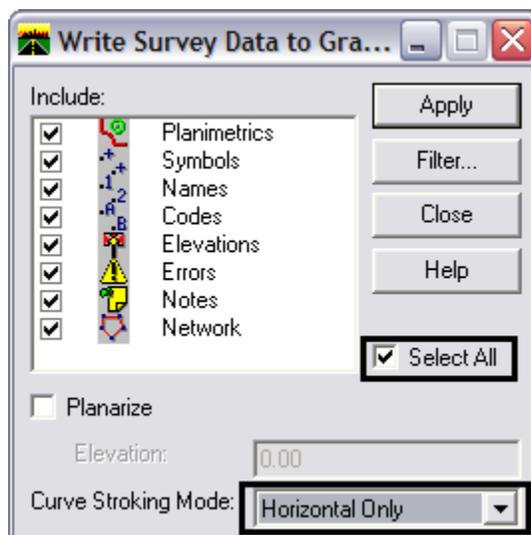
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- Click **Save**, then **OK**. The **Survey Options** dialog will close.
- Once the settings are complete, write the survey data to graphics. Go to the Survey pull-down and select, **Survey > View Survey Data > Write Survey Data to Graphics...** the **Write Survey Data to Graphics** dialog will open.



**Note:** If dynamic graphics were toggled on, those same components would be toggled on in the **Write Survey Data to Graphics** dialog.

- Check the **Select All** box.



- Set Curve Stroking: **Horizontal Only**.
- Click **Apply**. The graphics will be created in the design file.

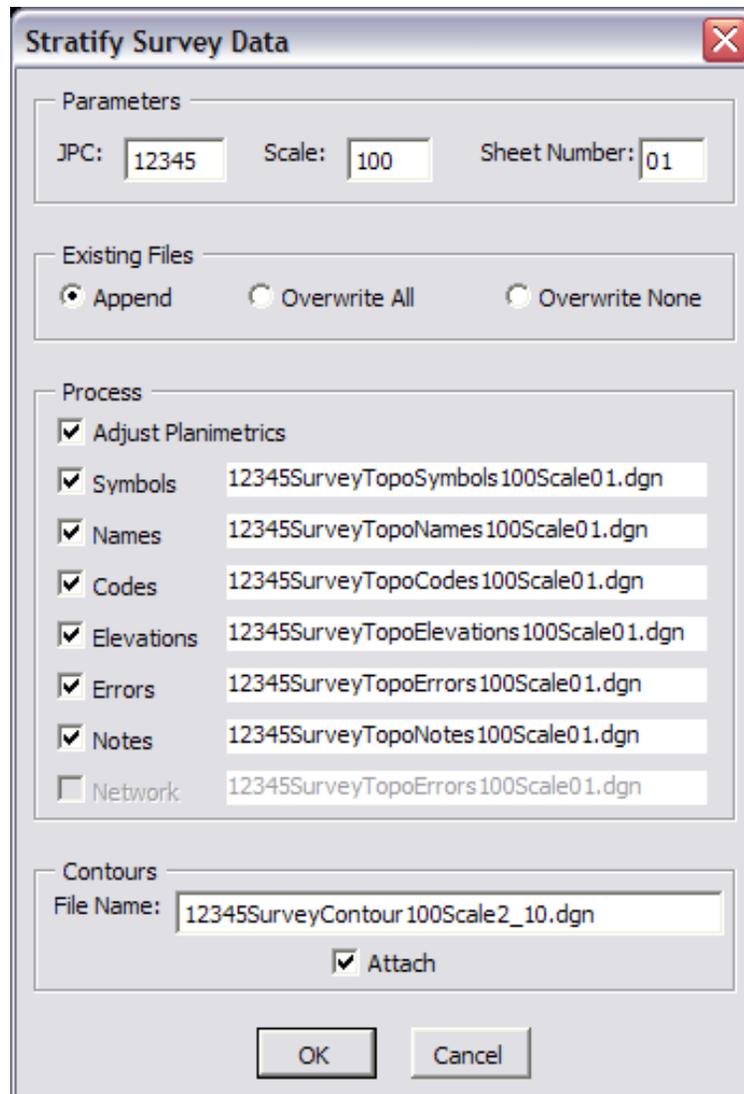
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15. Click the **Close** button. The Survey fieldbook data has been written to the design file.
16. Verify all dynamic View Survey Data icons are toggled off.



17. Fit the design file within MicroStation.
18. Review the results to verify the data has been written to the design file and are level stratified.

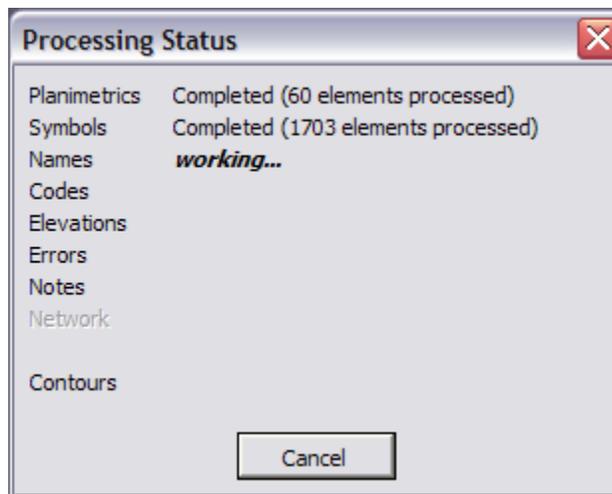
From the CDOT Menu pull-down select **Add On's > Stratify Survey**. The **Stratify Survey** dialog will appear.

A screenshot of the 'Stratify Survey Data' dialog box. The dialog has a title bar with a red 'X' icon. It contains several sections: 'Parameters' with input fields for JPC (12345), Scale (100), and Sheet Number (01); 'Existing Files' with radio buttons for Append (selected), Overwrite All, and Overwrite None; 'Process' with a list of checkboxes and file names: Adjust Planimetrics (checked), Symbols (checked, 12345SurveyTopoSymbols100Scale01.dgn), Names (checked, 12345SurveyTopoNames100Scale01.dgn), Codes (checked, 12345SurveyTopoCodes100Scale01.dgn), Elevations (checked, 12345SurveyTopoElevations100Scale01.dgn), Errors (checked, 12345SurveyTopoErrors100Scale01.dgn), Notes (checked, 12345SurveyTopoNotes100Scale01.dgn), and Network (unchecked, 12345SurveyTopoErrors100Scale01.dgn); 'Contours' with a File Name field (12345SurveyContour100Scale2\_10.dgn) and an Attach checkbox (checked). At the bottom are OK and Cancel buttons.

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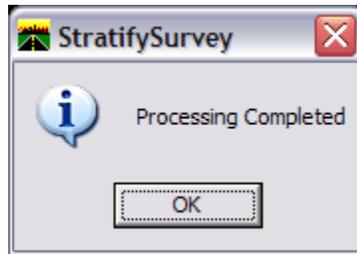
### Notes:

- The **Append** existing files option will add or merge, the new data into an existing file. A new file will be created if the file does not already exist.
  - The **Overwrite All** existing files option will create a new file, deleting any previously existing file.
  - The **Overwrite None** existing file option will disable the processing option for a file if the file already exists.
  - The **Adjust Planimetrics** process option will resize the planimetrics text (if necessary) and convert the grouped text strings to view independent cells to allow for viewing this text in any 3D view.
19. Verify the **JPC**, **Scale**, and **Sheet Number** entries are correct. Altering any of those values will automatically alter the output file names. If the Attach box in the Contours section is grayed out the contour file does not exist. You may further edit the **File Name** box to enter the name of an existing contour file.
20. Click the **OK** button to start the process.
21. As the data is being moved to the appropriate reference file a **Processing Status** dialog will update on the progress. You may click the **Cancel** button to stop the processing if necessary.

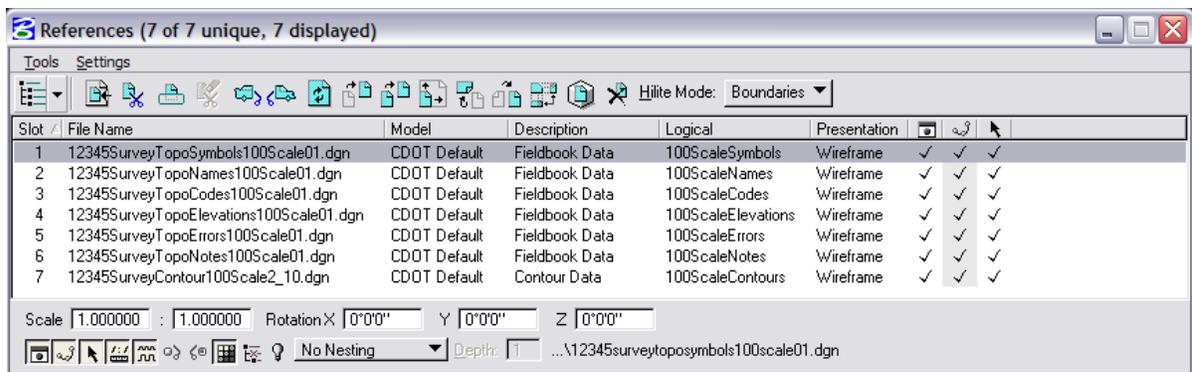


22. When completed, a **Processing Completed** message will be displayed. Click the **OK** button to exit the program.

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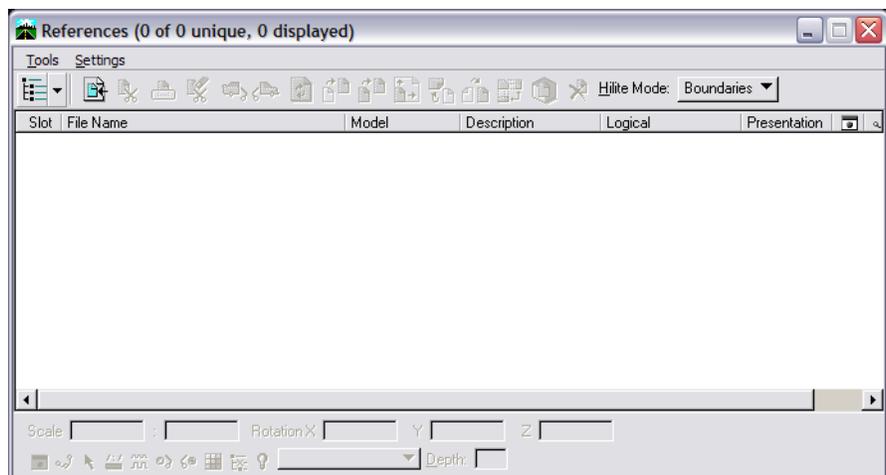
23. The fieldbook data has now been stratified into separate reference files. The planimetrics will be in the master design file with all of the symbols, names, codes, etc. attached as references. To view these attachments select **File > Reference** from the MicroStation pull-down.



## Roadway Design referencing Survey Topo files

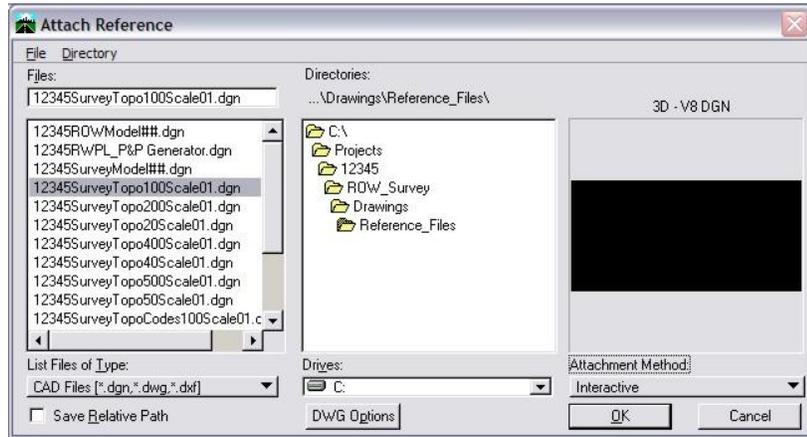
By using nested references, the designers will be able to attach one Survey Topo file and have all the additional references attach as well.

24. From the MicroStation pull-down menu select **File > Reference**. The **References** dialog will appear.



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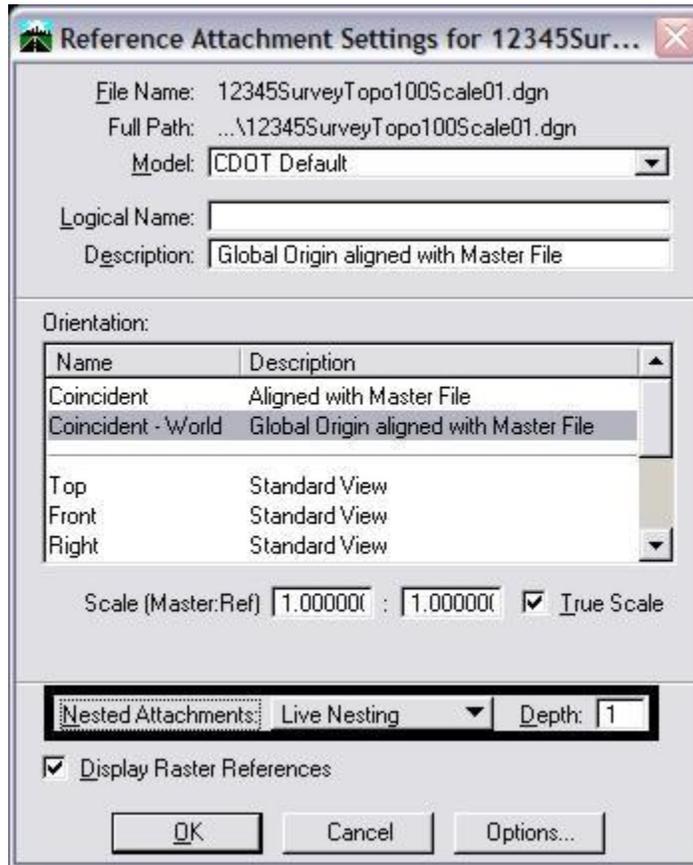
- From the **References** pull down menu select **Tools > Attach**. The **Attach Reference** dialog will appear.



- Set the directory to **C:\Projects\12345\ROW\_Survey\Drawings\Reference\_Files**
- Select the file **12345SurveyTopo100Scale01.dgn** and click **OK**. The **Reference Attachment Settings** dialog will appear.

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28. From the **Nested Attachments** drop down box select *Live Nesting* and set the **Depth** to *1*.



29. **Click OK.** The Survey Topo file will attach along with the fieldbook nested attachments.

