

Start a New MicroStation Design Project

Design Manual
Chapter 20
Project Automation
Information

Originally Issued: 04-30-09
 Revised: 10-13-14

File Directory Structure

When a request for a new Project Directory is sent to the IT Highway Support Team, a predetermined list of working folders is created from the project PIN (**P**roject **I**dentification **N**umber) as shown below. For an expanded example of a **Project Directory Sub-Folder Structure** listing, refer to Section [20B-41](#). For details specific to the Design folder structure, refer to Section [20B-44](#).

The following Project Directory Structure would be created for a project with PIN: 09-77-017-010:

pw:\Projects\7701701009\BRFinal -	Bridge Final
pw:\Projects\7701701009\BRPrelim -	Bridge Prelim
pw:\Projects\7701701009\Construction -	Construction
pw:\Projects\7701701009\Consultant -	Consultant Coordination
pw:\Projects\7701701009\Contracts -	Contracts
pw:\Projects\7701701009\CorridorDev -	Corridor Development
pw:\Projects\7701701009\Design -	Design
pw:\Projects\7701701009\DistrictDesign -	District Design
pw:\Projects\7701701009\DistrictROW -	District Right-of-Way
pw:\Projects\7701701009\DistrictSurvey -	District Survey
pw:\Projects\7701701009\Geo -	Interchange Geometrics
pw:\Projects\7701701009\LocalSystems -	Local Systems projects
pw:\Projects\7701701009\OLE -	Office of Location and Environment
pw:\Projects\7701701009\oleLocation -	OLE Location
pw:\Projects\7701701009\oleWaterResources -	OLE Water Resources
pw:\Projects\7701701009\Photo -	Photogrammetry "survey" information
pw:\Projects\7701701009\PrelimSurvey -	Prelim Survey information
pw:\Projects\7701701009\Roadside -	Roadside Development
pw:\Projects\7701701009\ROW -	Right-of-Way
pw:\Projects\7701701009\Soils -	Soils Design
pw:\Projects\7701701009\TrafEng -	Traffic Engineering

Note: Not all of the above folders may be necessary for all projects.

Create New Project CADD Files

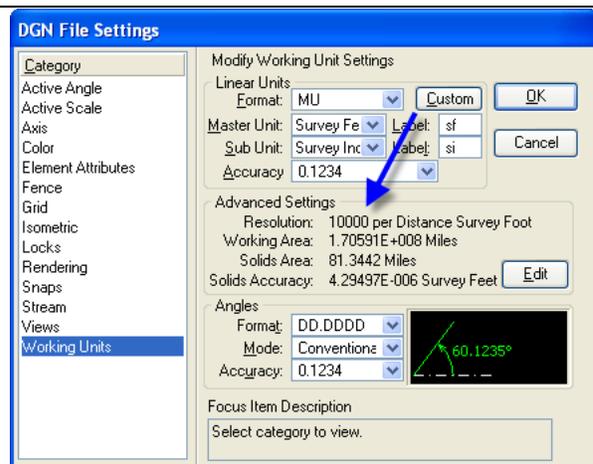
When a new Design project is started, the **CopySeed (V8)** program is used to create a new design file by copying a specific seed file. For additional information on the use of the **CopySeed (V8)** program, refer to Section [21C-54](#). The Design File Naming convention, “CCRRRPPP”, refers to the 2-digit **C**ounty, 3-digit **R**oute, and the 3-digit project **P**arenthesis number assigned to the project. For example, per this naming convention, a project number of *NHSX-163-1(062)--3H-77*, would have file names beginning with *77163062*. For sheet files, this number is to be followed by the sheet series designation, such as *A, B, C*, etc. If there are multiple files for the series, the sheet letter is to be followed by the first sheet number that file contains. For example, in the file *77163062K07.sht*, the first sheet is *K.7*. All working cross section files are to start with the prefix *XS_*. Section [20B-71](#) provides a listing and descriptions of all files created by the Office of Design, including those created using the **CopySeed (V8)** program. This section also contains descriptions of the model options within those files and descriptions of files and models created by other offices.



It is very important that new design files have the same resolution as the Photo and/or Survey file. All new Photo and Survey files will have an English resolution of 10,000, but older Photo files may have an English resolution of 720, or a Metric resolution of 2000. Prior to creating new design files, determine the resolution of the existing Photo file and create the new file with the same resolution. To determine the resolution of an open file, go to:

Settings > Design File > Working Units

The resolution is displayed in the center of the dialog, as with the 10,000 resolution example, shown at the right.



Models

The MicroStation file that is used as the seed file to create a new design file contains only a single “default” model. For information pertaining to **D & C Manager** tools for creating new models, attaching references to models, copying, scaling, and rotating elements from model to model, exporting and importing models, and saving models to the “.alt” file, refer to the sections linked below.

Create New Model

The purpose of this tool is to create new models. It should be used each time a new model is required, rather than using the MicroStation Create New Model tool, as it will assist in providing the correct naming format for the new model. For detailed information on renaming the “default” model and creating and naming new models using the **Model_Create New** tool, refer to Section [21A-40](#).

Attach Additional References to a New Model

When additional reference attachment(s) are required, they should be attached through the **References_Attach** tool. For additional information on the **References_Attach** tool, refer to Section [21A-50](#).

Copy, Rotate, and Scale Elements from Model to Model

Cells and text items will rarely be referenced to other models because the scale or rotation angle of the original elements is likely incorrect for any other model. If the same text and/or cell elements are required in two separate models, but at a different scale or rotation angle, the **Copy, Rotate, Scale**

(reference elements) tool should be used to create the necessary size and rotation variation(s). For additional information on the **Copy, Rotate, Scale (reference elements)** tool, refer to Section [21A-22](#).

Export and Import Models

The **Model_Export & Import** tool provides multiple people with simultaneous access to the same file, but to different models within that file. For additional information on the **Model_Export & Import** tool, refer to Section [21A-41](#).

Model_Save to the “.alt” File

The **Model_Save to the “.alt” file** tool is a separate program that provides much of the same options as the **Model_Export & Import tool**, as described above. Saving a copy of a model as an alternate in the “.alt” file is like creating a “model backup”, or creating a “snap-shot in time”. This provides the ability to review the design or to return to the design exactly as it was when the alternate model was created. For additional information on the **Model_Save to the “.alt” file** tool, refer to Section [21A-43](#).

Backing up Files

The **Backup** tool saves a backup copy of an entire file on the local hard drive. For additional information on the **Backup** tool, refer to Section [21A-36](#).

Chronology of Changes to Design Manual Section:

020A-001 Start a new MicroStation Project

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| 10/13/2014 | Revised
Revised to reflect ProjectWise migration. |
| 7/5/2011 | Revised
Removed redundancy from new Section 20B-71 and other automation sections. |
| 2/26/2010 | Revised
Updated to current methods |