

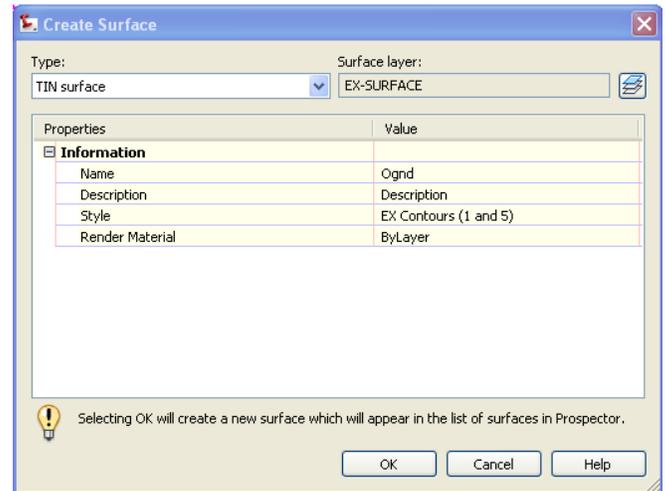
This guide covers the procedure for creating a terrain surface in Civil 3D using an .adf format GIS data file. The file that is being used to create the surface is located on a local hard drive or shared server.

A. Make sure a coordinate system is assigned to the Drawing

1. Go to the Settings tab on the Toolspace.
2. Right click on the drawing name and select *Edit Drawing Settings...*
3. In the *Drawing Settings* window, go to the *Units and Zone* tab.
4. Select the coordinate system for the drawing from the list of available coordinate systems in the *Zone* section.

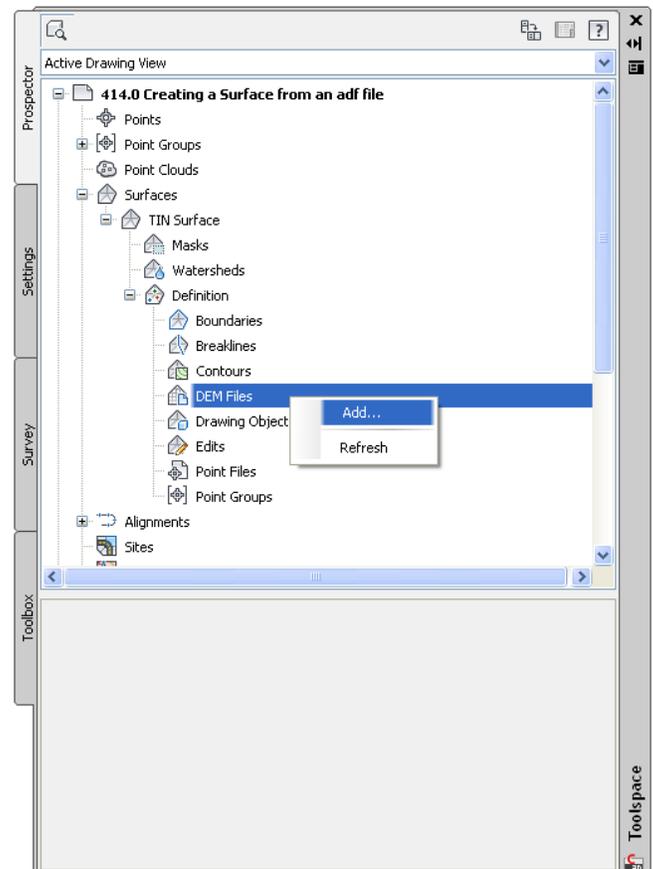
B. Add a new surface to the drawing

1. Surfaces are controlled through the Toolspace window. To open the Toolspace window, click on the Toolspace icon on the Home ribbon.
2. Make sure you are on the *Prospector* tab in the *Toolspace* window.
3. Click on the plus sign next to *Surfaces* in the Prospector tab of the Toolbox to expand a listing of all of the surfaces in the drawing.
4. Right click on *Surfaces* and select *Create Surface...* from the shortcut menu.
5. In the *Create Surface* window, provide a name for the surface and select the display style that you want to use. Because DEM datasets are usually very large, it can help speed up the process if you select a surface style of No Display or Border.

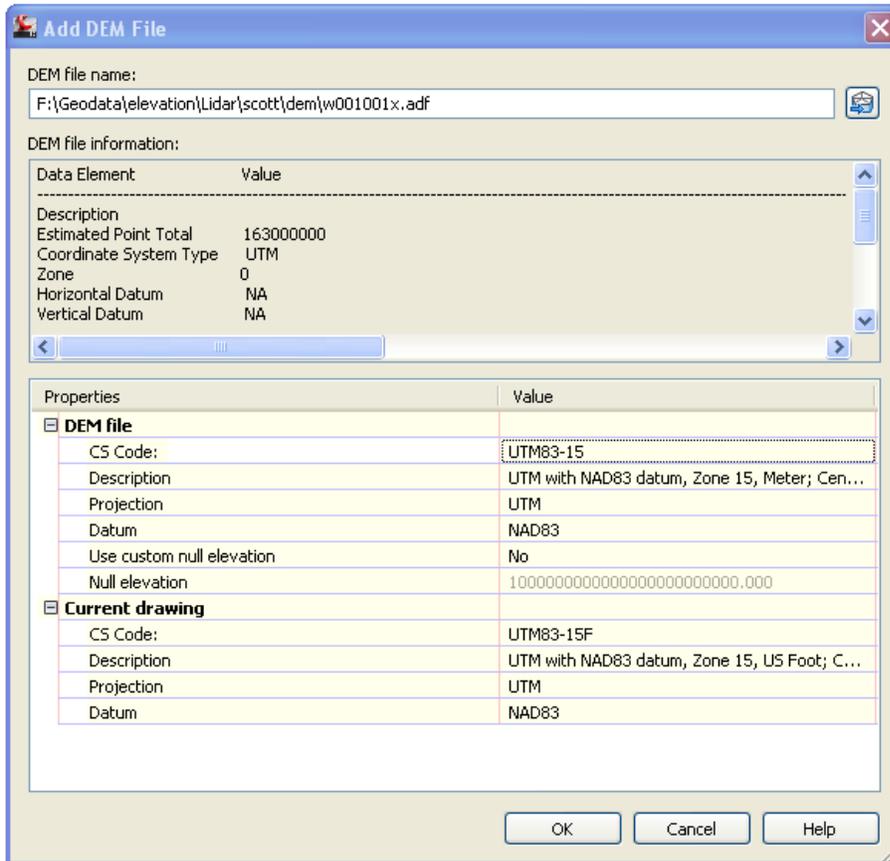


C. Define the surface

1. Click on the plus sign next to the name of the surface that you created in order to expand the listing of commands for that surface
2. Click on the plus sign next to *Definition* to access the list of data that you can use to define the surface.
3. Right click on the *DEM Files* definition option and select *Add...*



4. In the *Add DEM File* window, browse and select the .adf file that will be used to develop the terrain surface and click on the Open button to return to the *Add DEM File* window. If the coordinate system for the DEM file is not automatically set, you can manually specify its coordinate system by clicking in the box in the Value column next to CS Code:



5. Click on the OK button to add the DEM data to the surface.