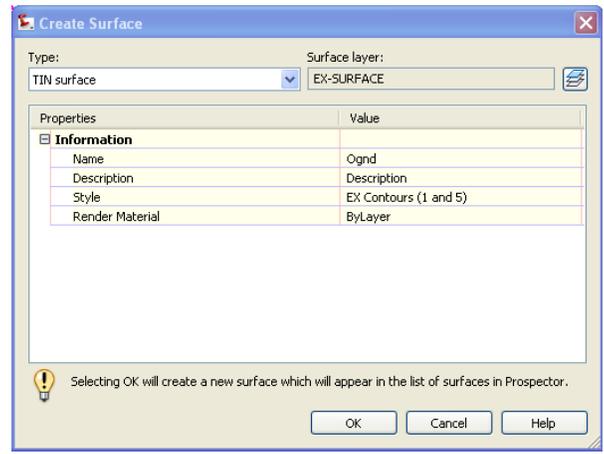


The Minnesota drawing template contains a terrain surface with the title *Existing Ground* which models the topographic surface represented by the points located in the *PR – Existing Ground* point group. For more information on working with the *Existing Ground* surface, refer to Quick Reference Guide *410.0 Setting Up the Standard Existing Ground Surface*.

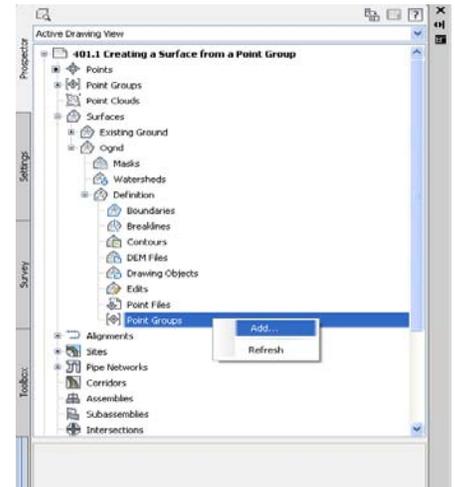
#### A. Add a new surface to the drawing

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.



#### B. 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 *Point Groups* definition option and select *Add...*
4. Select the point group that contains the data that you want to use to define the surface and click on the OK button.



#### C. Dynamic updates

If a yellow shield with an exclamation point appears next to a surface or a component of a surface, this indicates that the surface needs to be rebuilt. To do this, right click on the surface name and select *Rebuild*.

You can also choose to automatically update a surface when it is modified by right clicking on the surface name and selecting *Rebuild – Automatic*.

#### D. Surface display

The surface will be displayed in the drawing according to the surface style that is set for that surface. To change the surface style, right click on the surface title in the list of surfaces and select *Surface Properties...* The surface style is set on the *Information* tab of the *Surface Properties* window. The default surface style is *EX Contours (1 and 5)*, but this style can be changed by clicking on the down arrow next to the surface style and selecting a different style from the list of styles that are available.

Refer Quick Reference Guide *400.0 Styles - Surface Styles* for more information on the surface styles available in the Minnesota drawing template.