

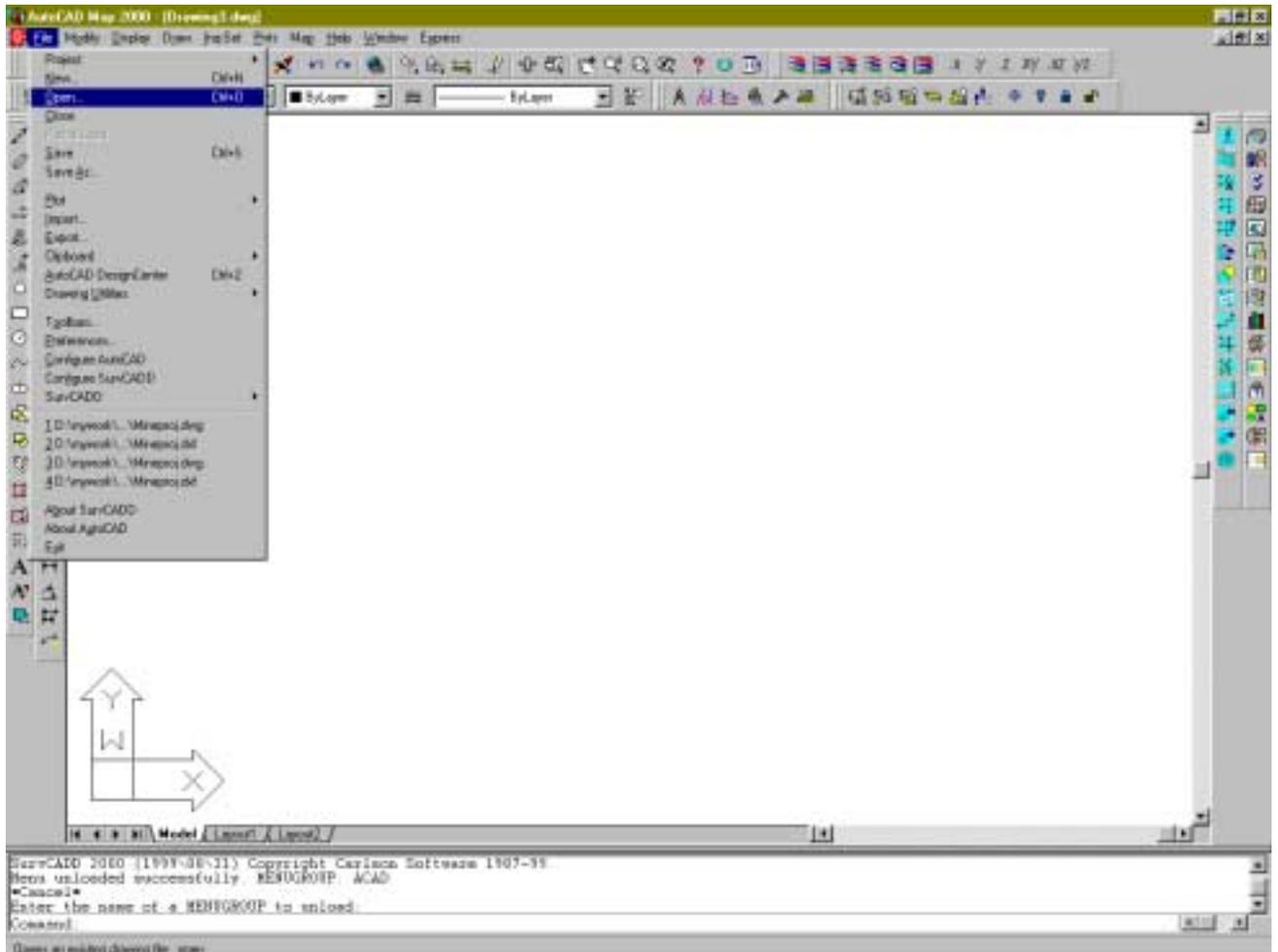
## XV. Import/Export

### DXF

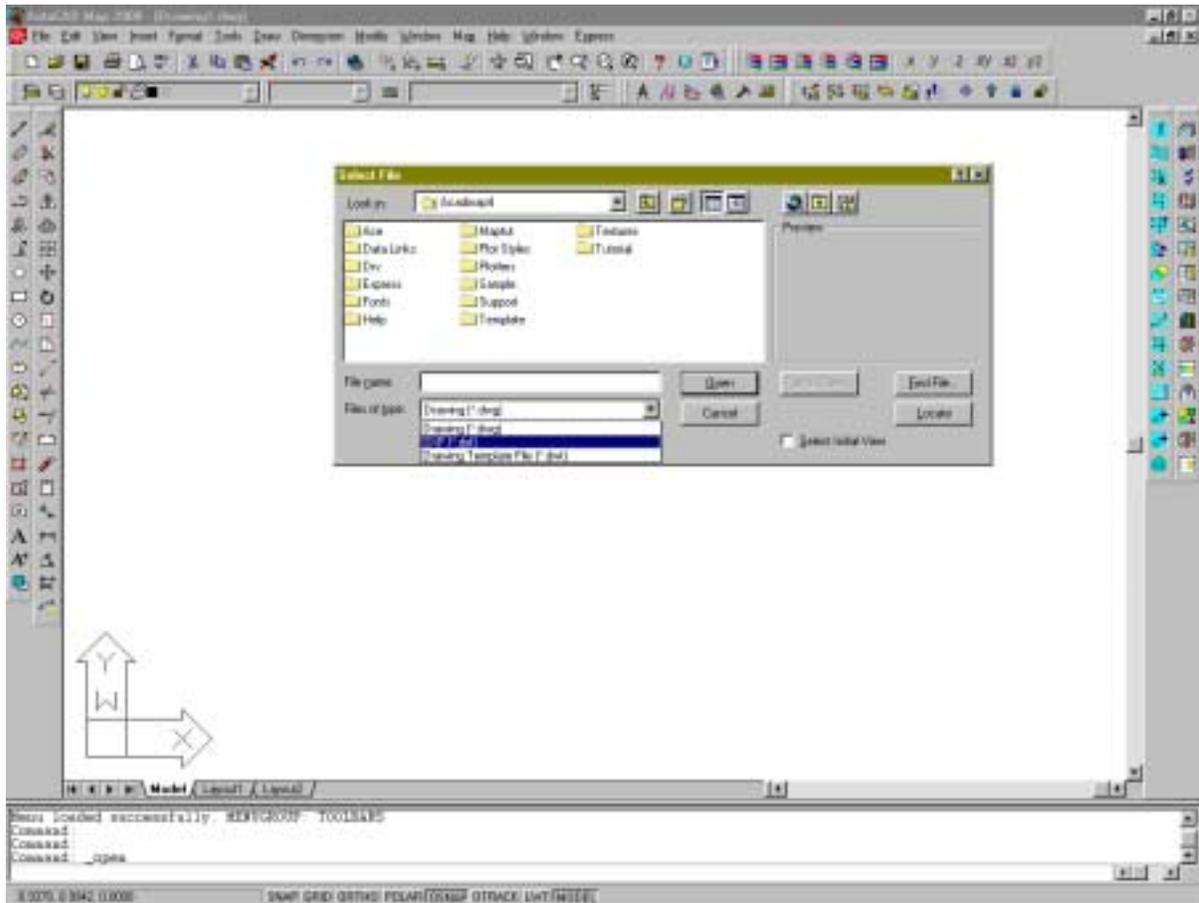
In this section you will import a **.dxf** file into a new drawing, save that **.dxf** file as a **.dwg** file, and then export the **.dwg** file back out as a **.dxf** file.

For this exercise you will be using the file ...\\CADTRAIN\Mineproj.dxf

From the file menu, choose Open. (Or type “dxfin” on the command line.)

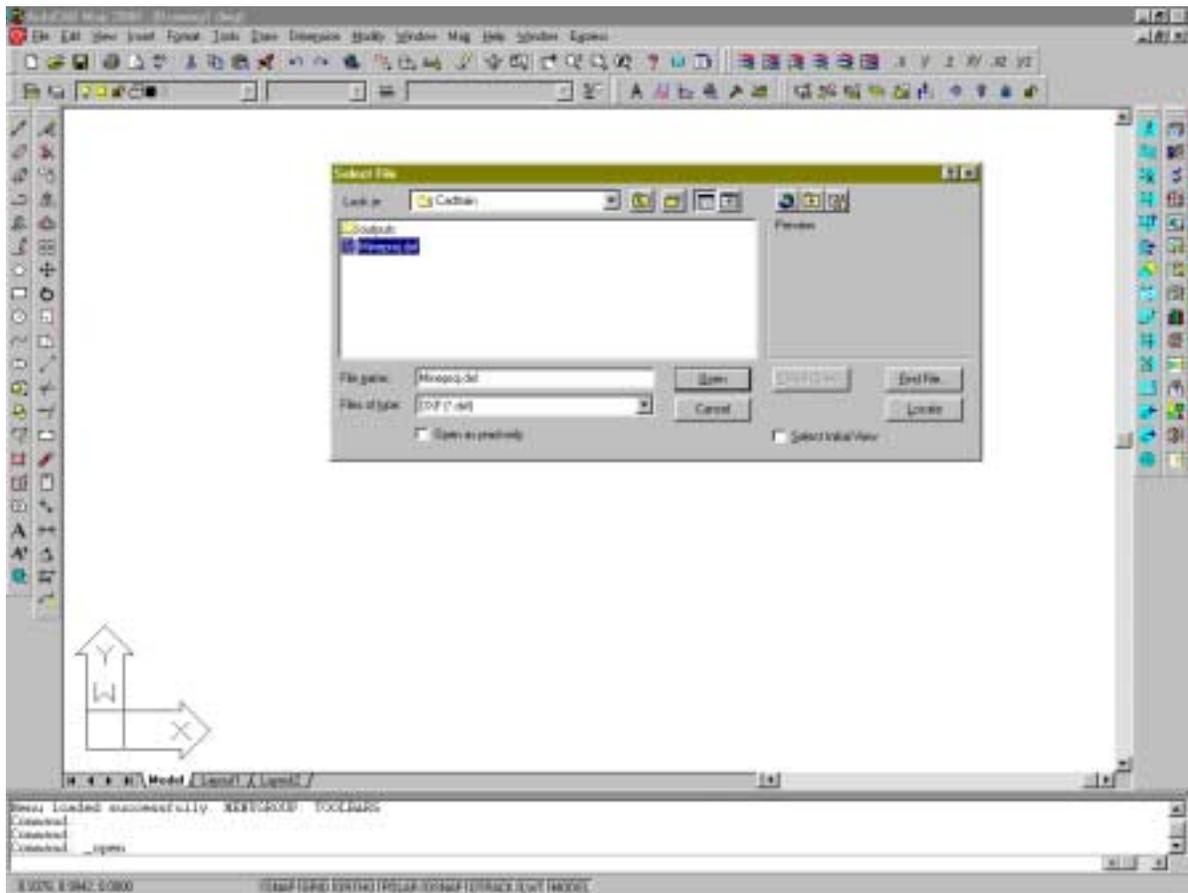


Chose DXF (\*.dxf) under file type in the Open File dialog box.

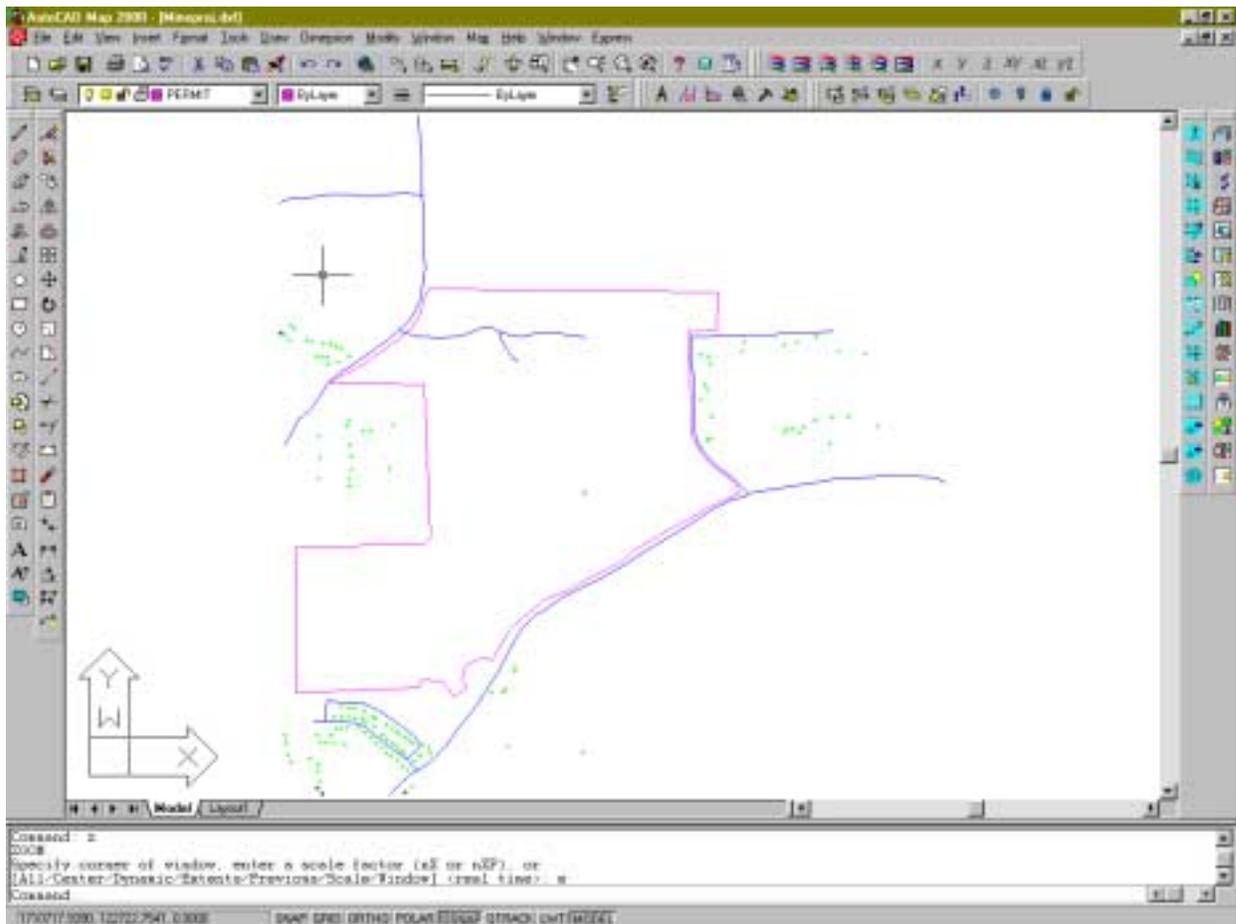


Navigate to and select. ...\\CADTRAIN\Mineproj.dxf

Click Open to open the file.



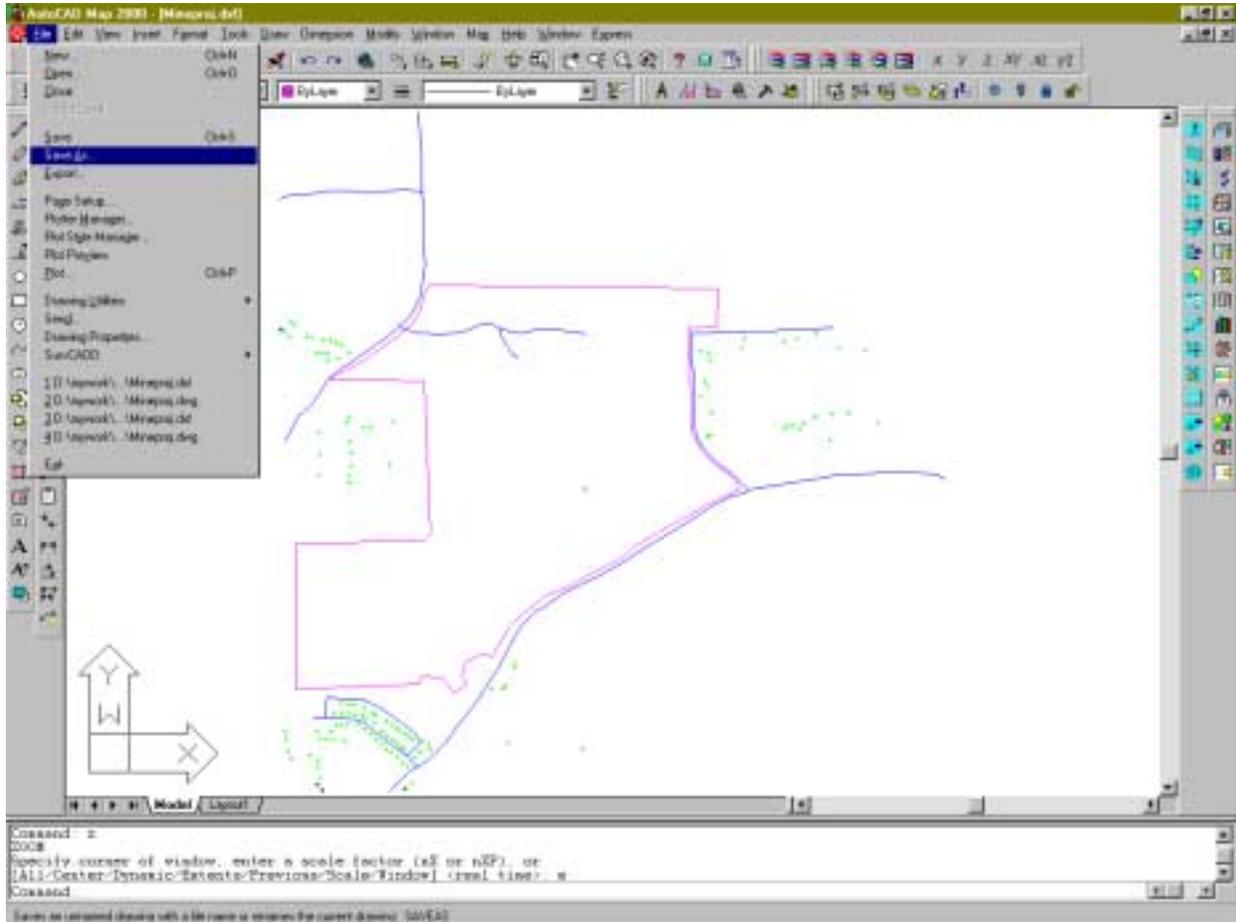
The .dxf file should now be open and displayed on the screen.



If the drawing is not displayed you may need to zoom to the drawing extents to see it. This is done by typing zoom (or “z”) then hitting enter, then typing “e” (for extents) and enter.

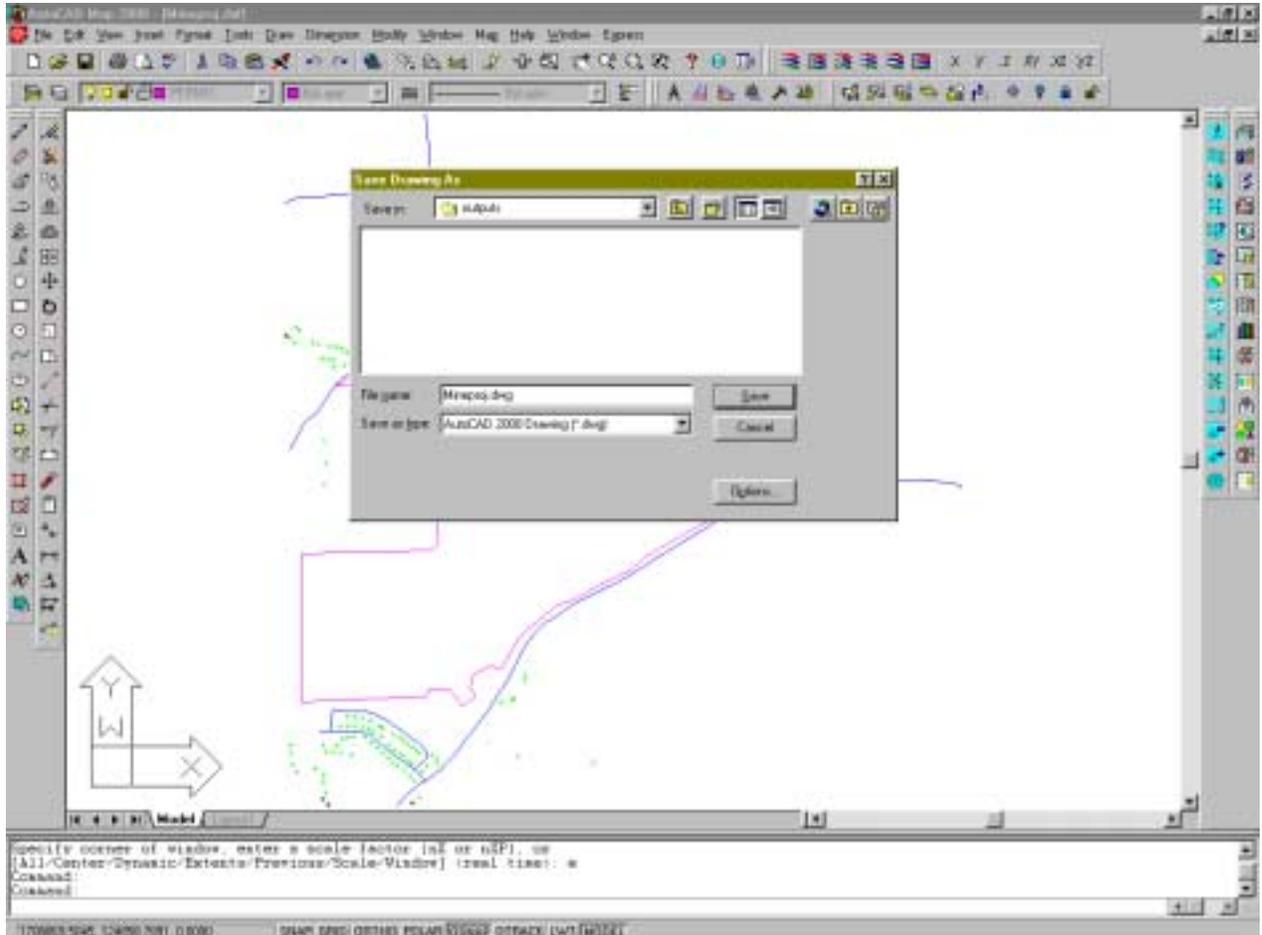
At this time, the drawing can be treated as any other drawing file. You will now save this .dxf file as a drawing (.dwg) file.

From the file menu, choose Save As...

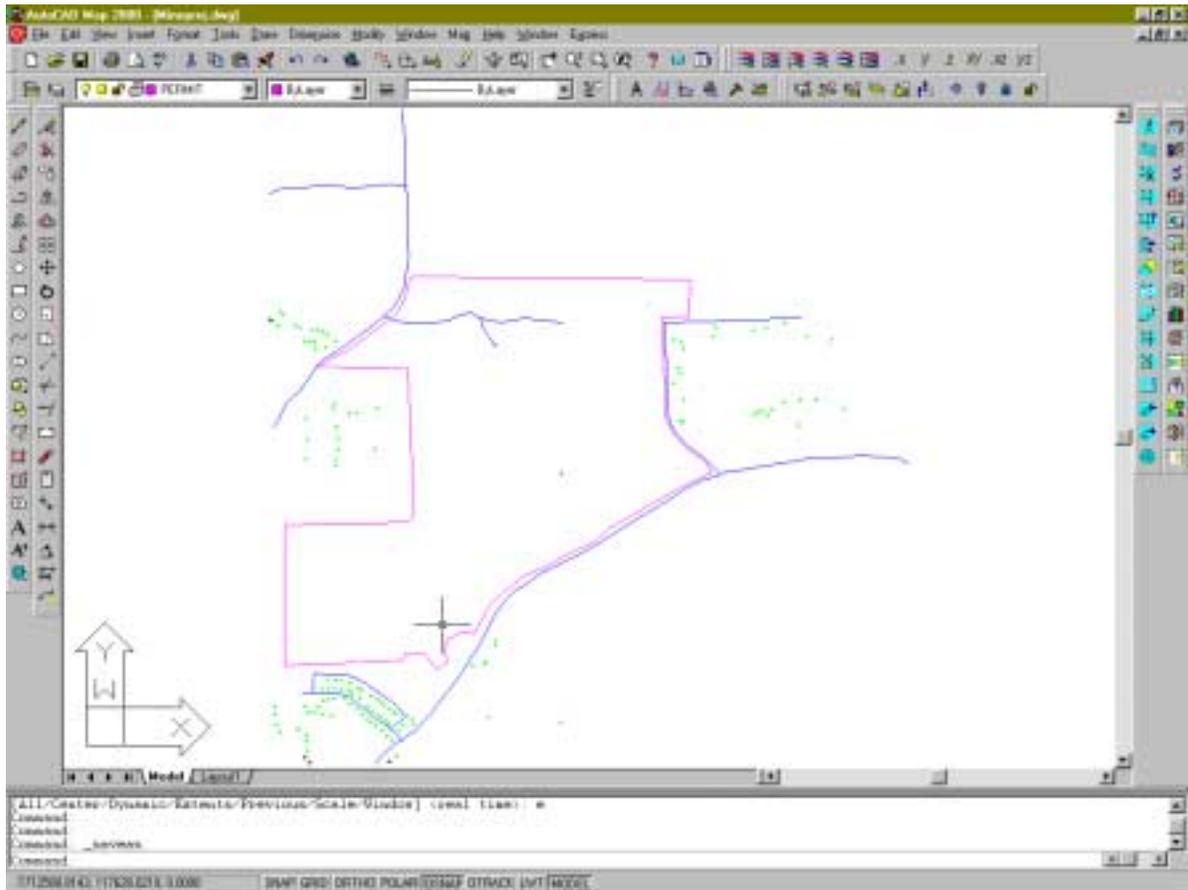


The default file type should be AutoCAD 2000 Drawing (\*.dwg). If this is not selected, select it from the dropdown list.

Navigate to ...\\CADTRAIN\\outputs\\ and select save to save the .dxf file as a .dwg file with the same name. (You can give the file any name by simply changing it in the File name box.)

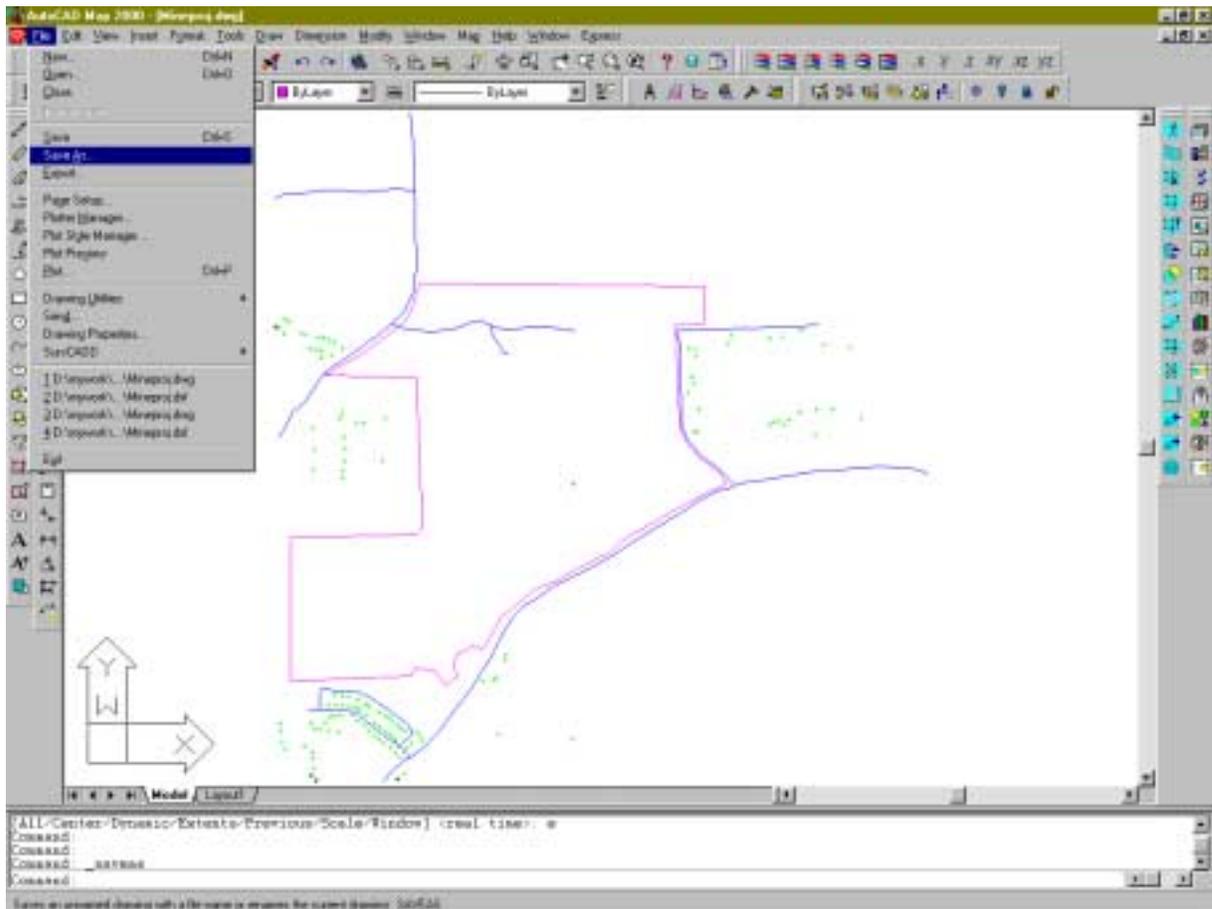


The drawing is now saved as a .dwg file. This can be seen on the title bar where the drawing title is now shown as Mineproj.dwg.

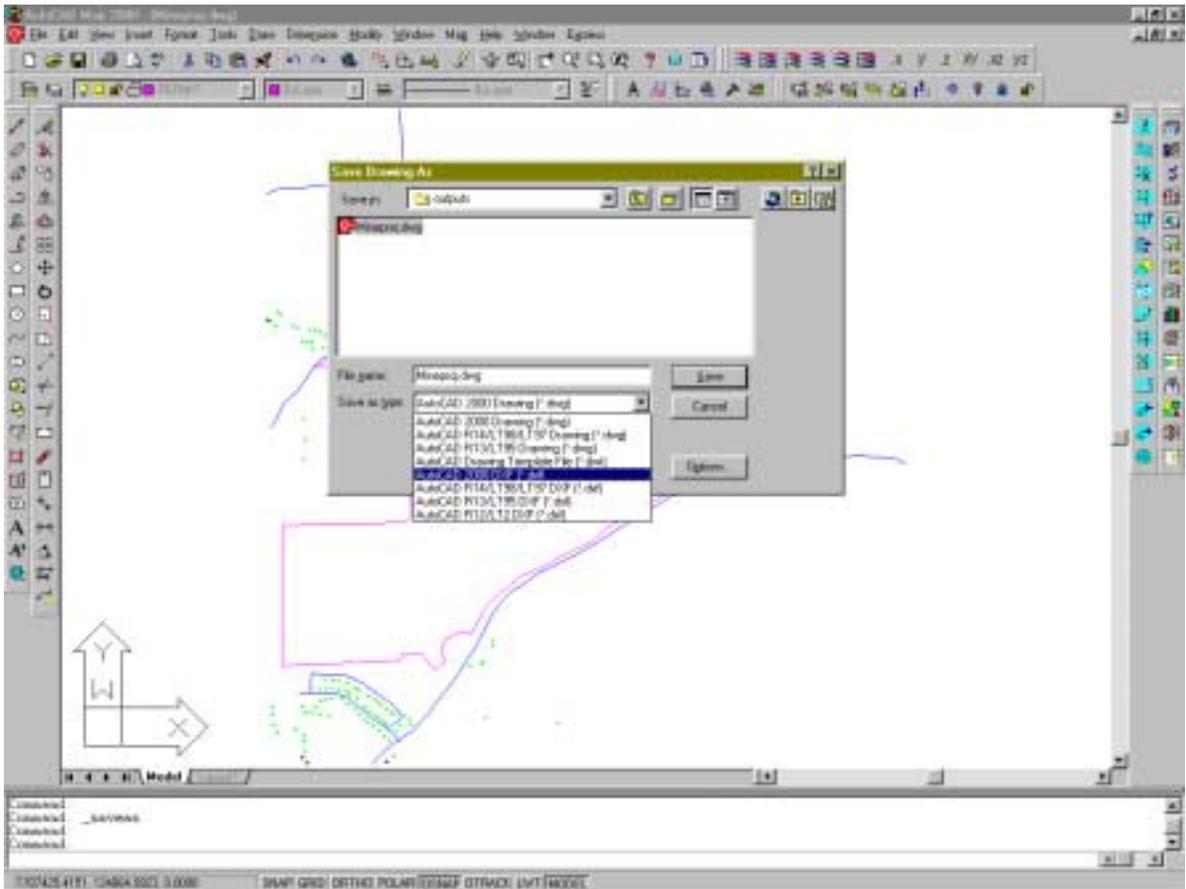


You will now export the file Mineproj.dwg as a .dxf file.

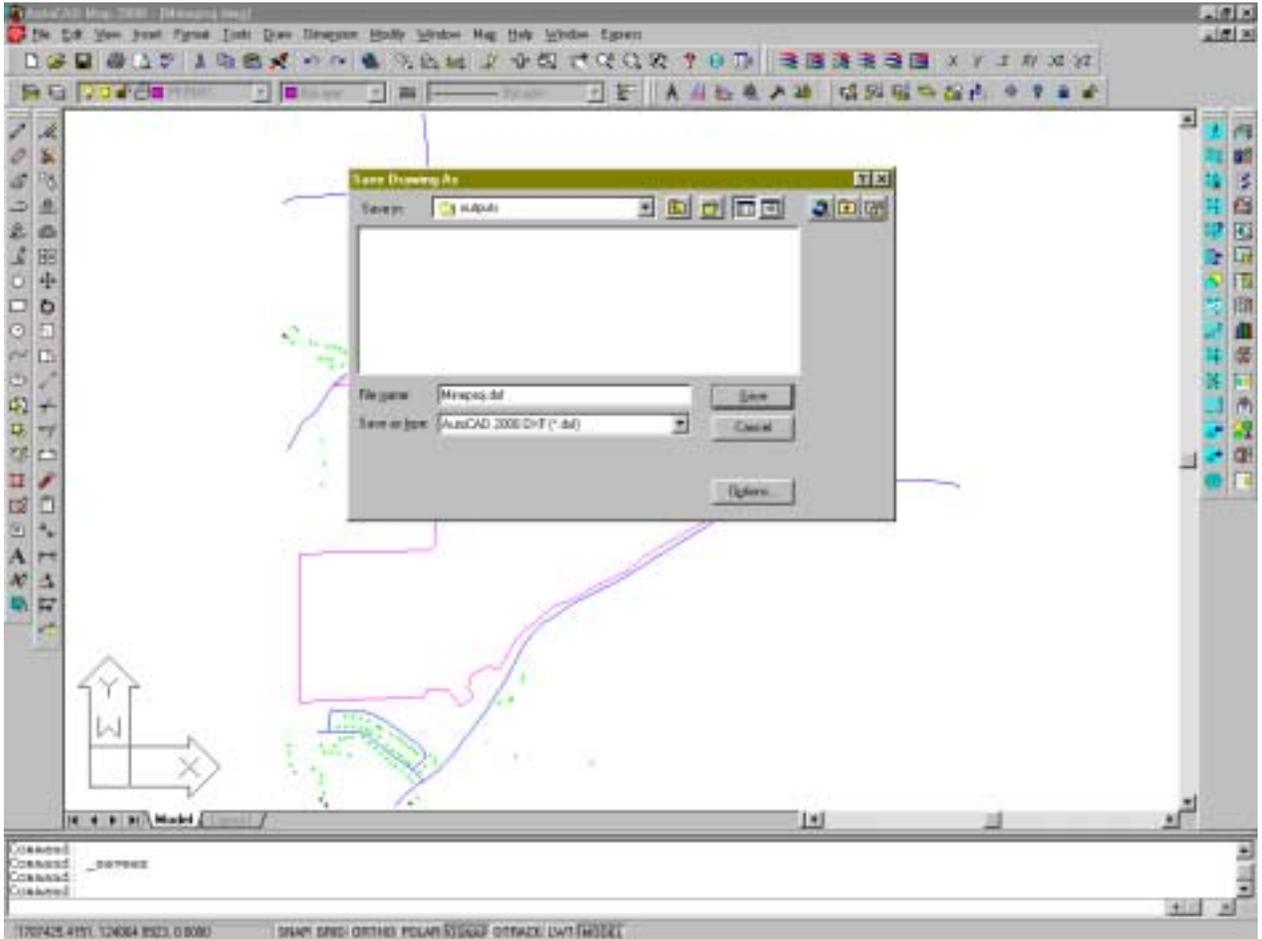
From the File menu, chose Save As... (Or type “dxfout” on the command line.)



Under Save as type, choose AutoCAD 2000 DXF (\*.dxf).



Navigate to ...\\CADTRAIN\\outputs\\ and select “save” to save the .dwg file as a .dxf file with the same name. (You can give the file any name by simply changing it in the File name box.)

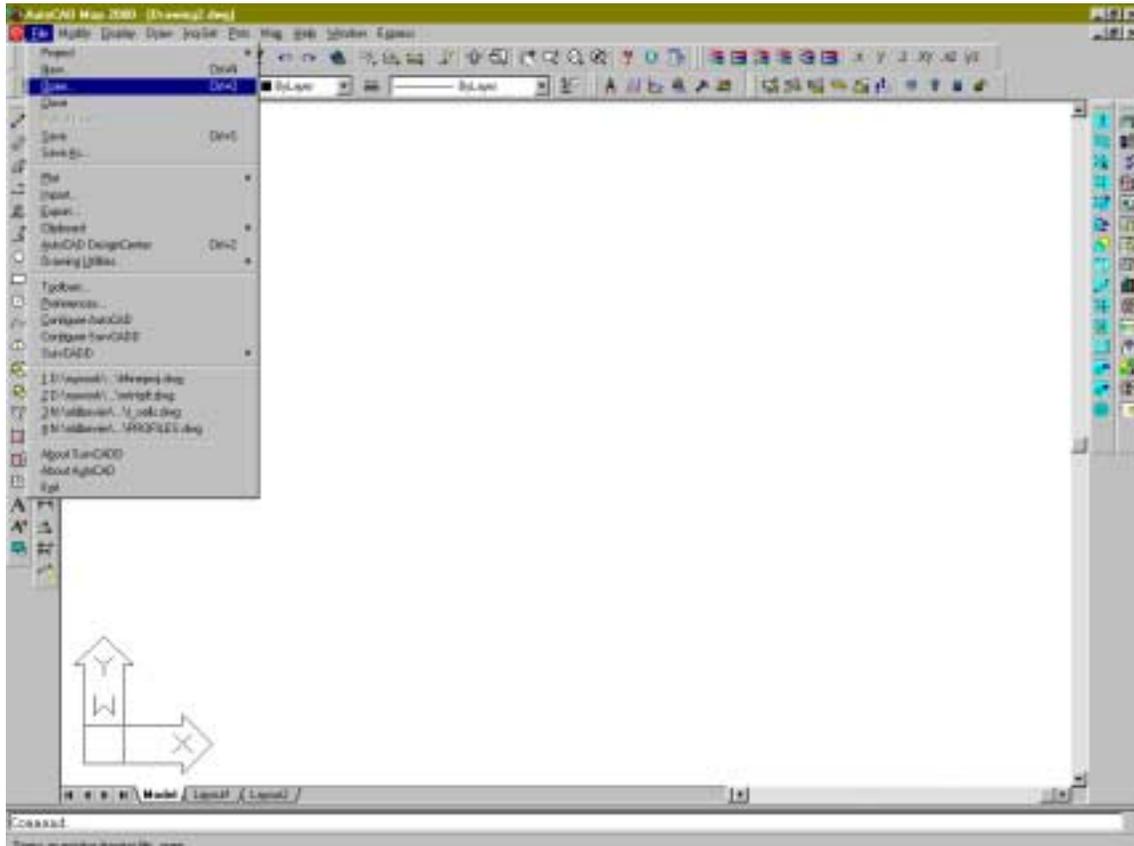


## Images (insert)

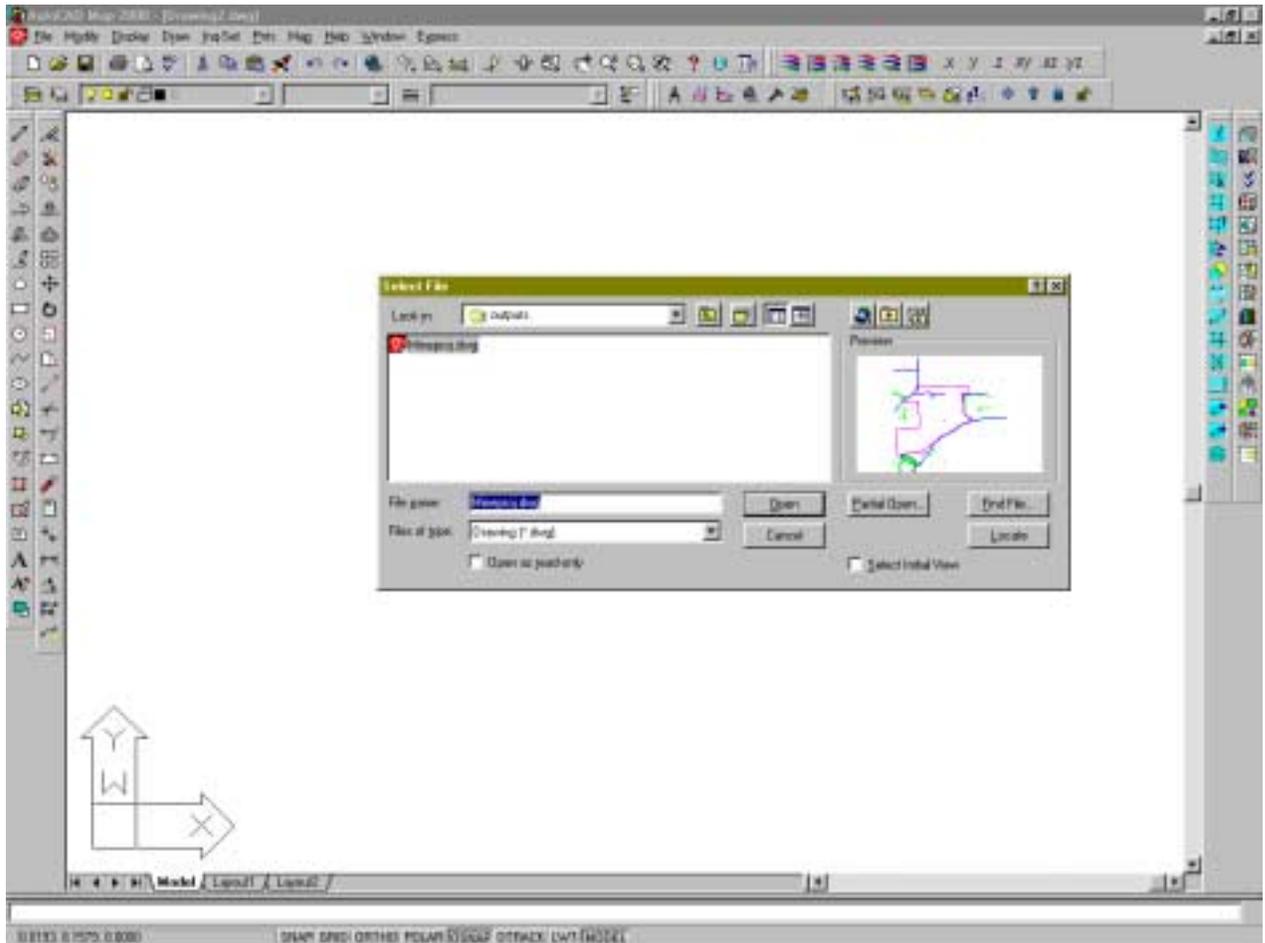
In this section you will insert an image into a drawing.

In this exercise you will be working with the file ...\\CADTRAIN\\outputs\\Mineproj.dwg and ...\\CADTRAIN\\minesite.tif

From the file menu, chose Open.

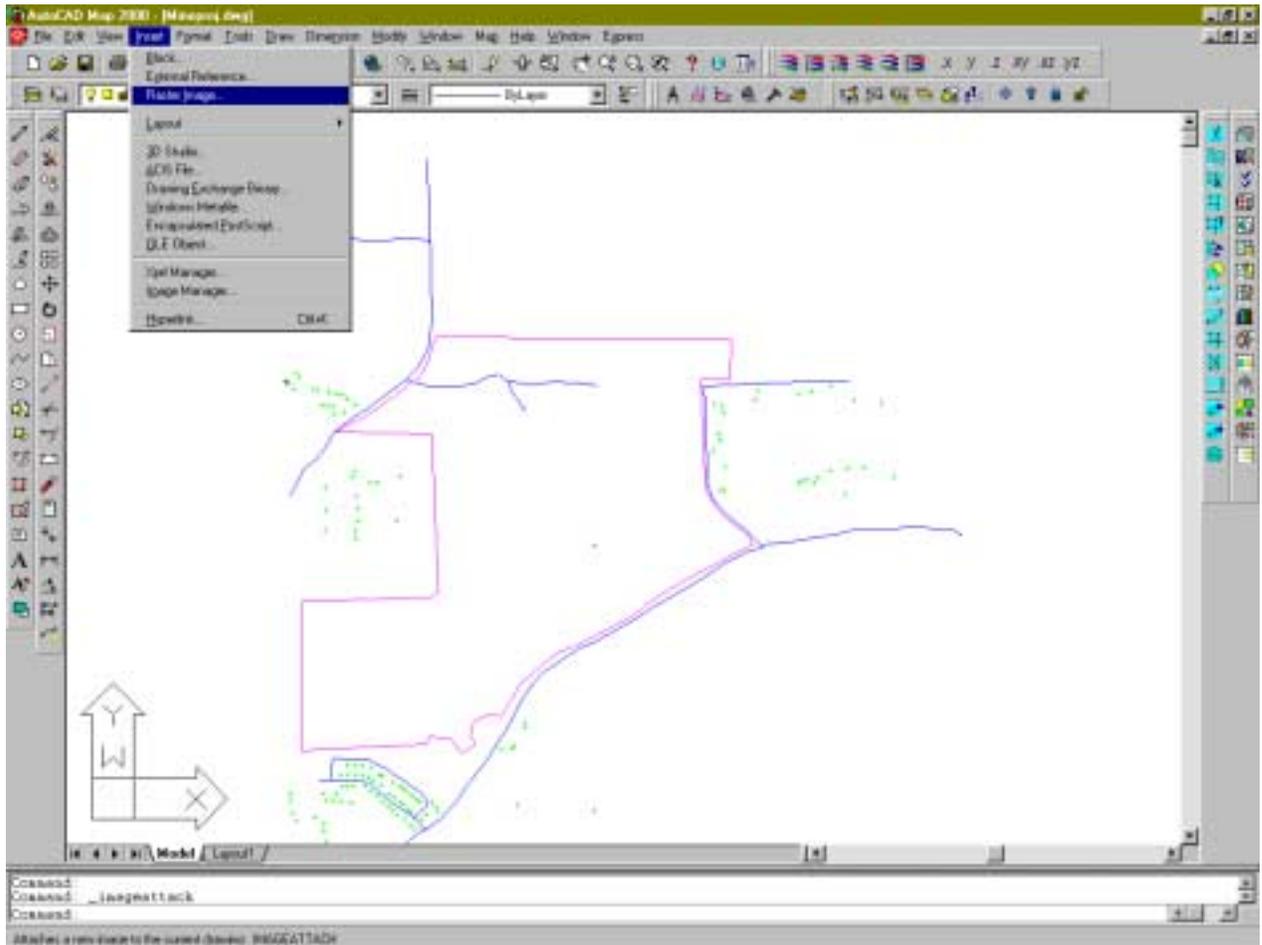


Navigate to ...\\CADTRAIN\\outputs\\Mineproj.dwg and click “open”.



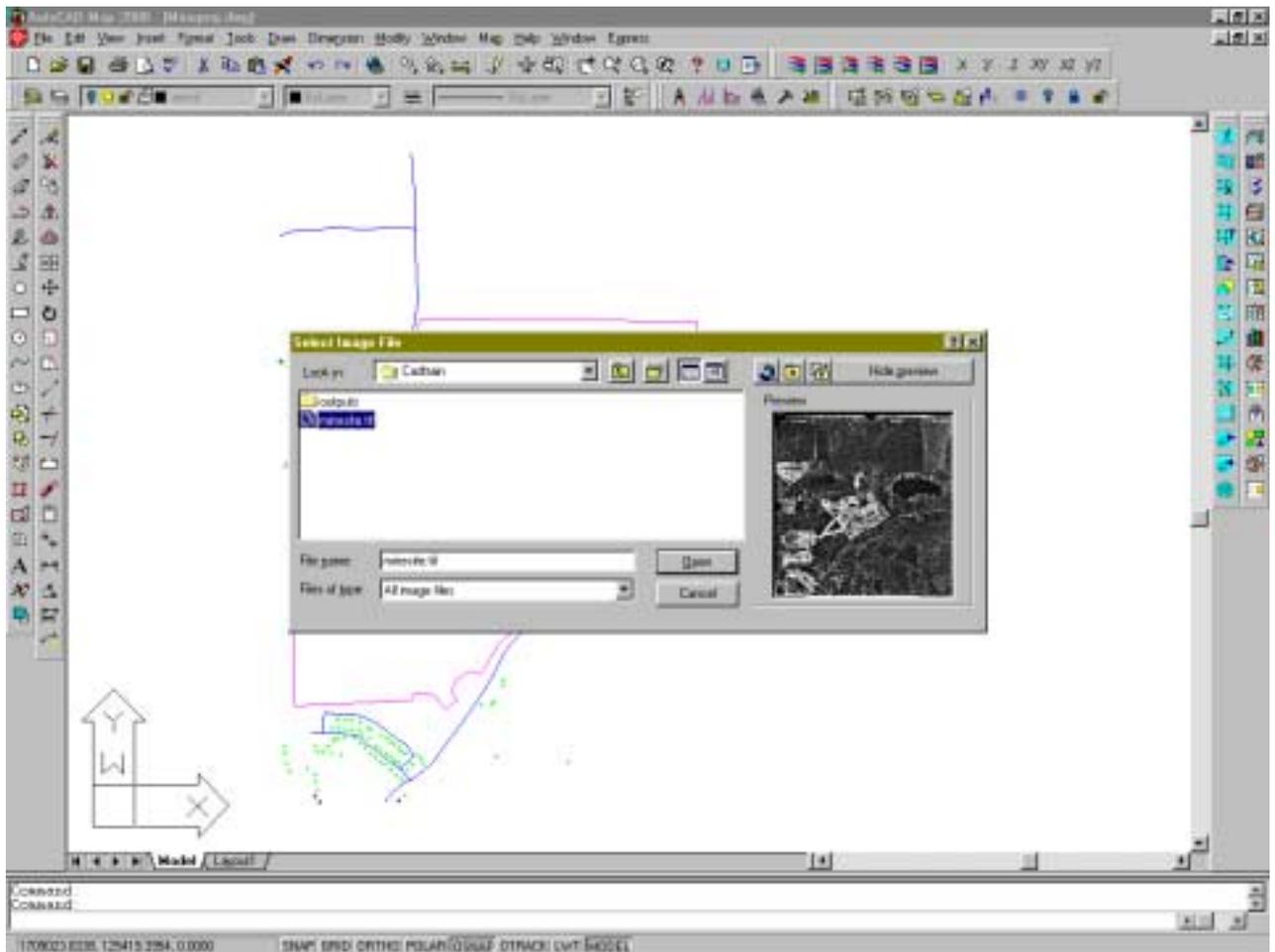
Your drawing should now be displayed on the screen.

Under the Insert menu, chose “raster image”.

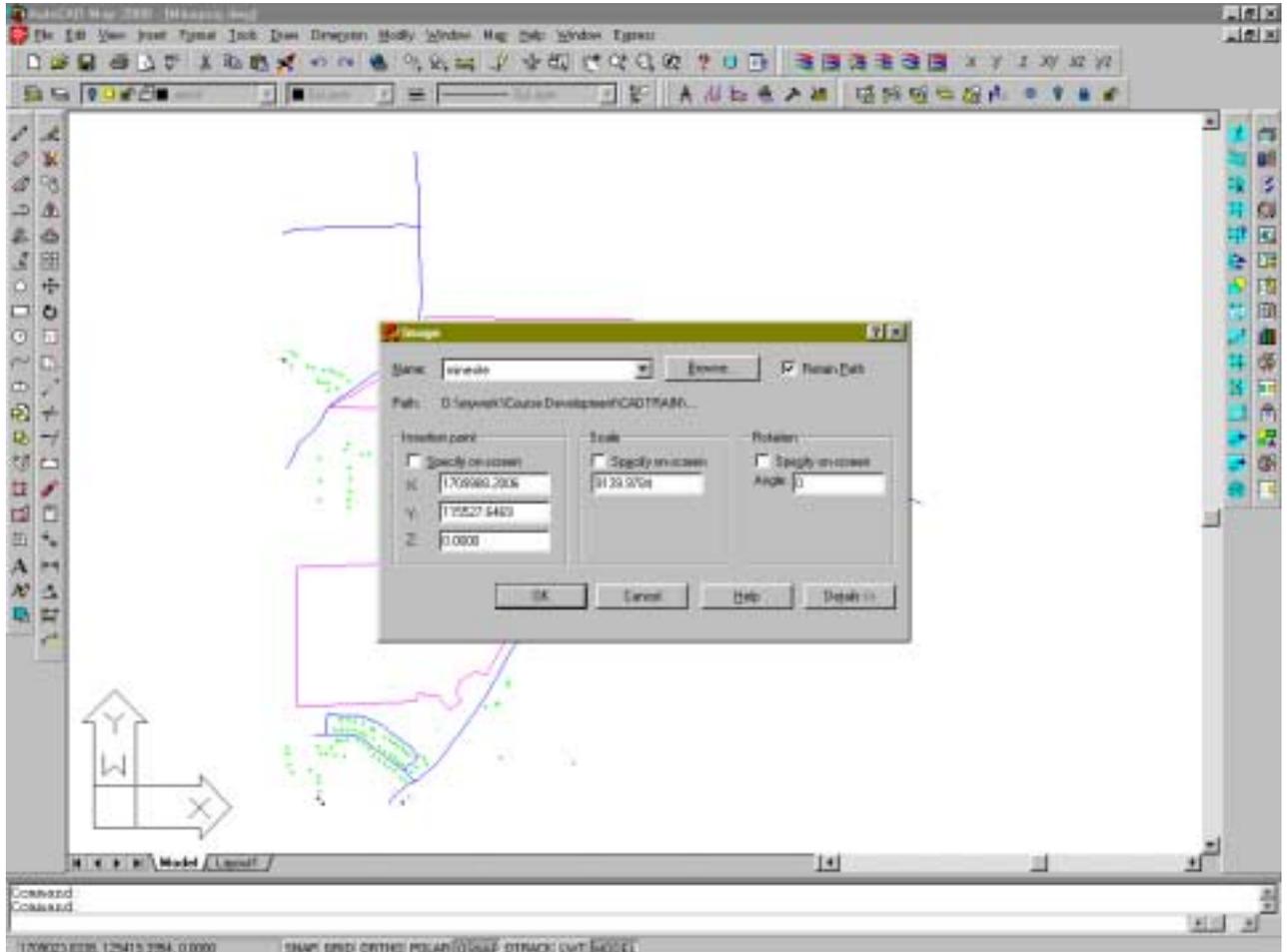


At this point you will need to create a layer named “aerial” and make it the current layer in order to insert the image into it’s own layer.

Navigate to the file ...\\CADTRAIN\\minesite.tif and chose “open”.

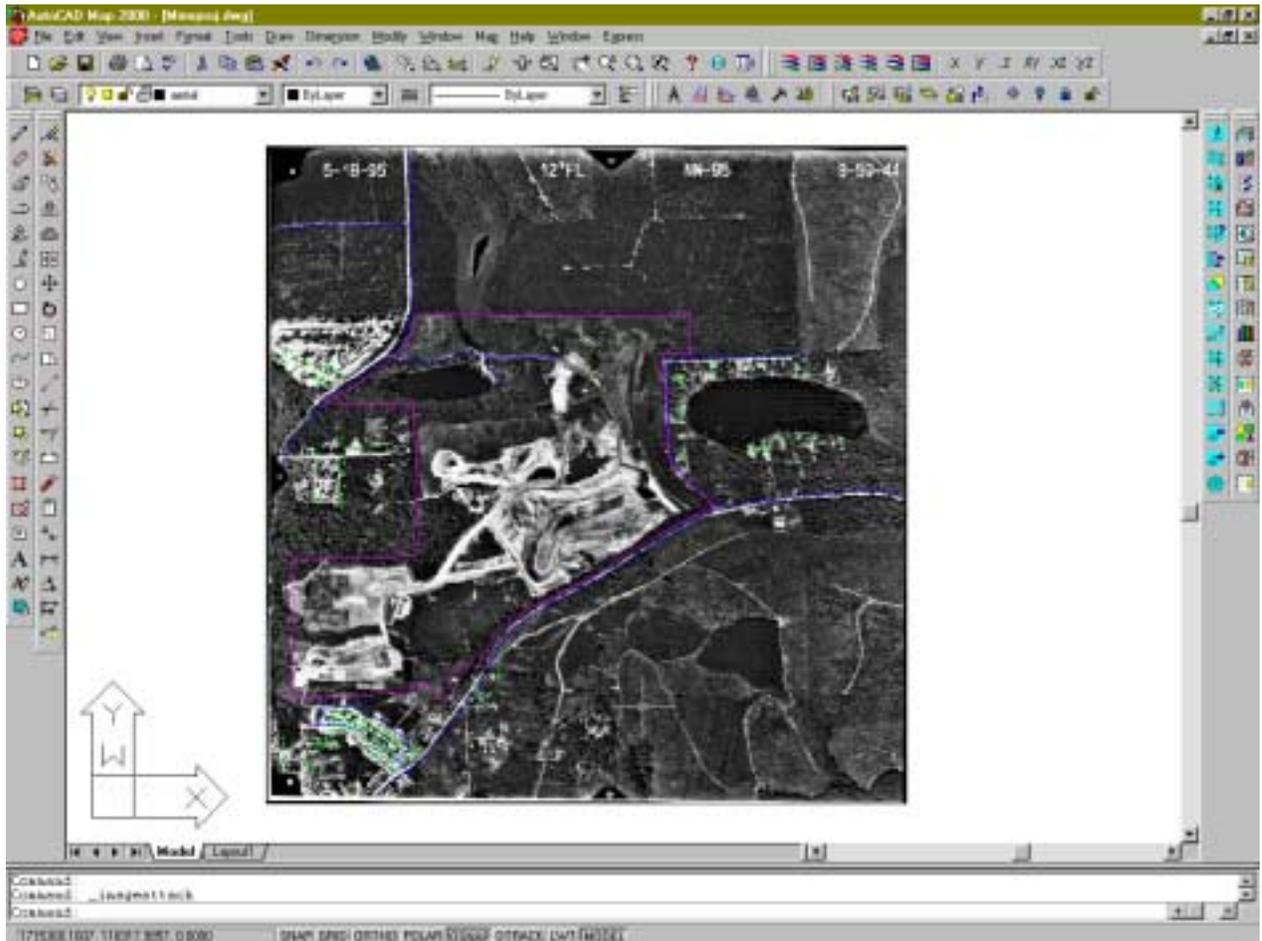


You should now see a dialog box containing settings for insertion point, scale, and rotation. Uncheck the box for specify on screen and type in **1709988.2006** for the **x** insertion point, **115527.6469** for the **y** insertion point, and **0** for the **z** insertion point. Under **scale**, uncheck the box for specify on screen and type in **9139.9784**. Leave the **rotation** box unchecked and make sure the value is set to **0**. Click ok.



The image should now be displayed in your drawing.

If the image is on top of your drawing, select the image, then type “draworder” on the command line. Type “b” for back then hit enter and the image will be displayed under the drawing.



From the file menu chose “save” to save your drawing.

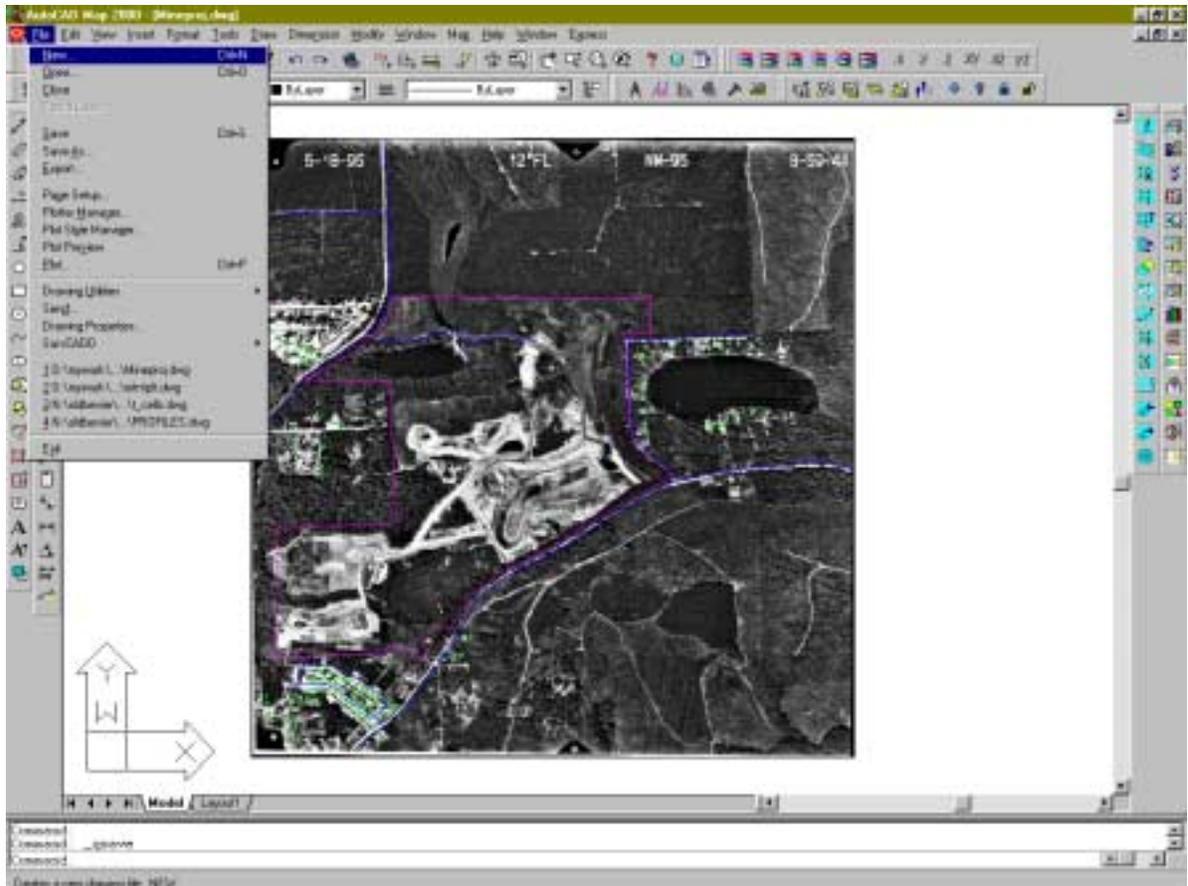
## Copy & Paste

### Within AutoCAD

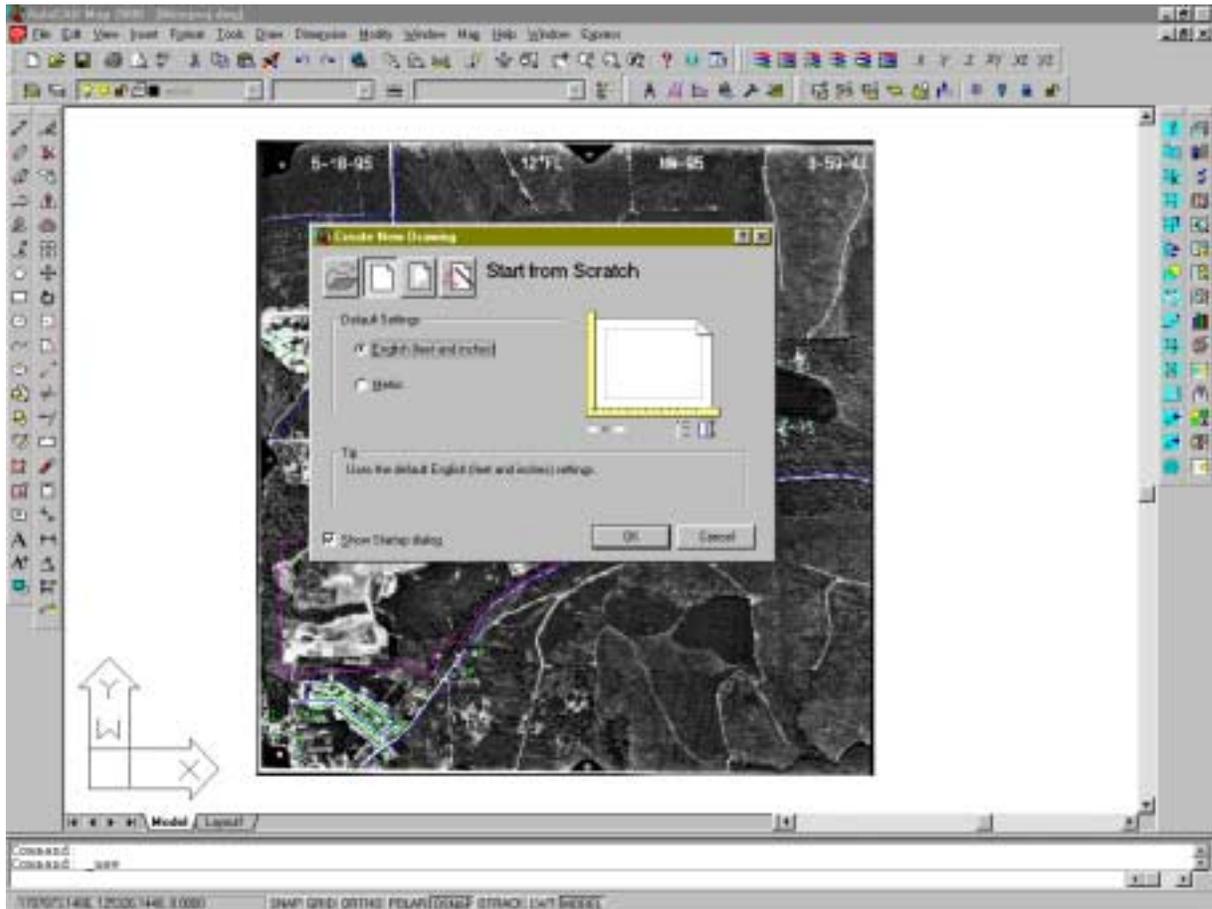
In this section you will use the copy and paste commands to copy objects from one drawing and paste them into another drawing.

In this exercise you will be working with the files ...\\CADTRAIN\\outputs\\Mineproj.dwg and a second file that you will create named ...\\CADTRAIN\\outputs\\permit.dwg

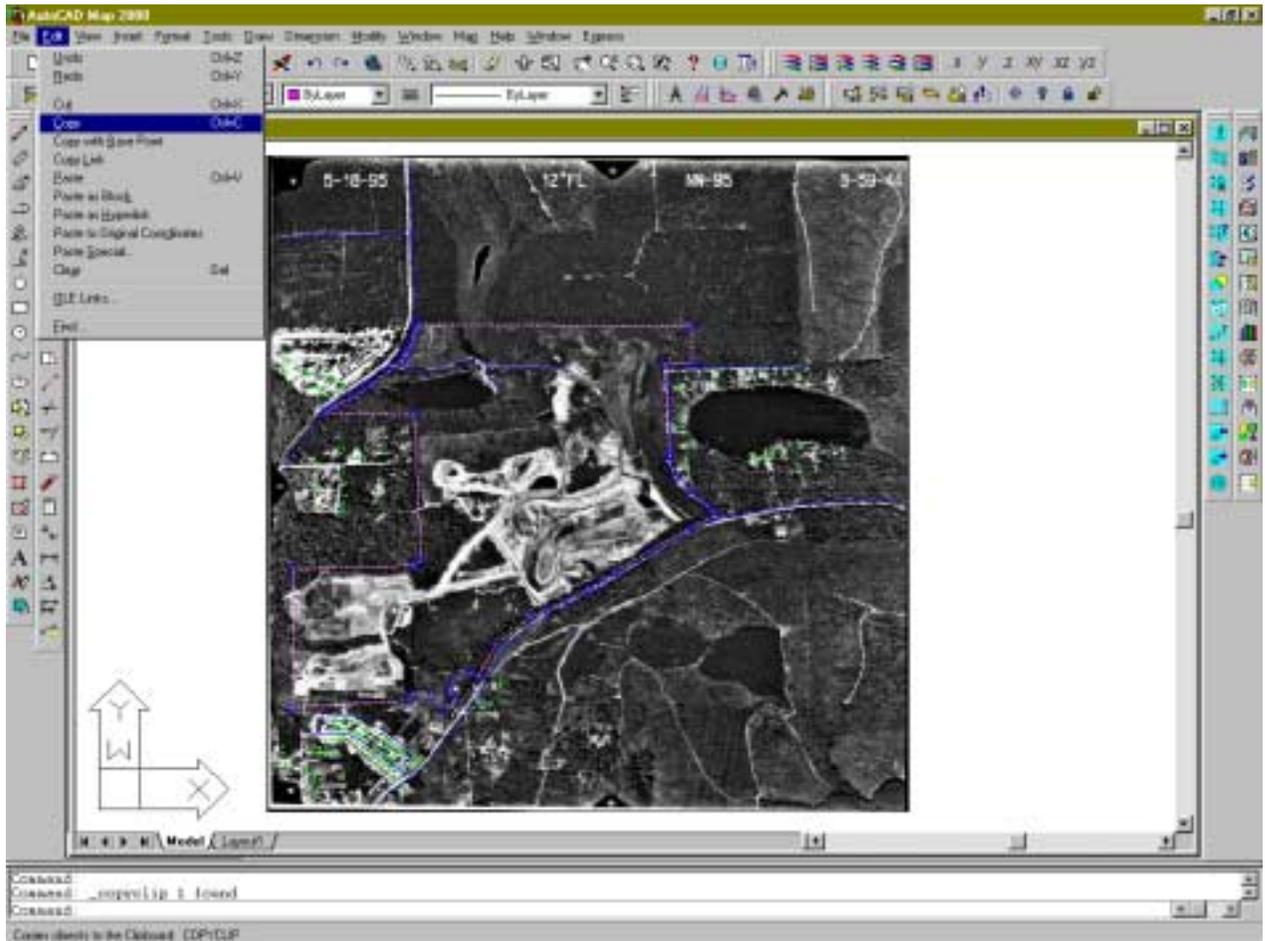
From the file menu, chose “new” to open a new file.



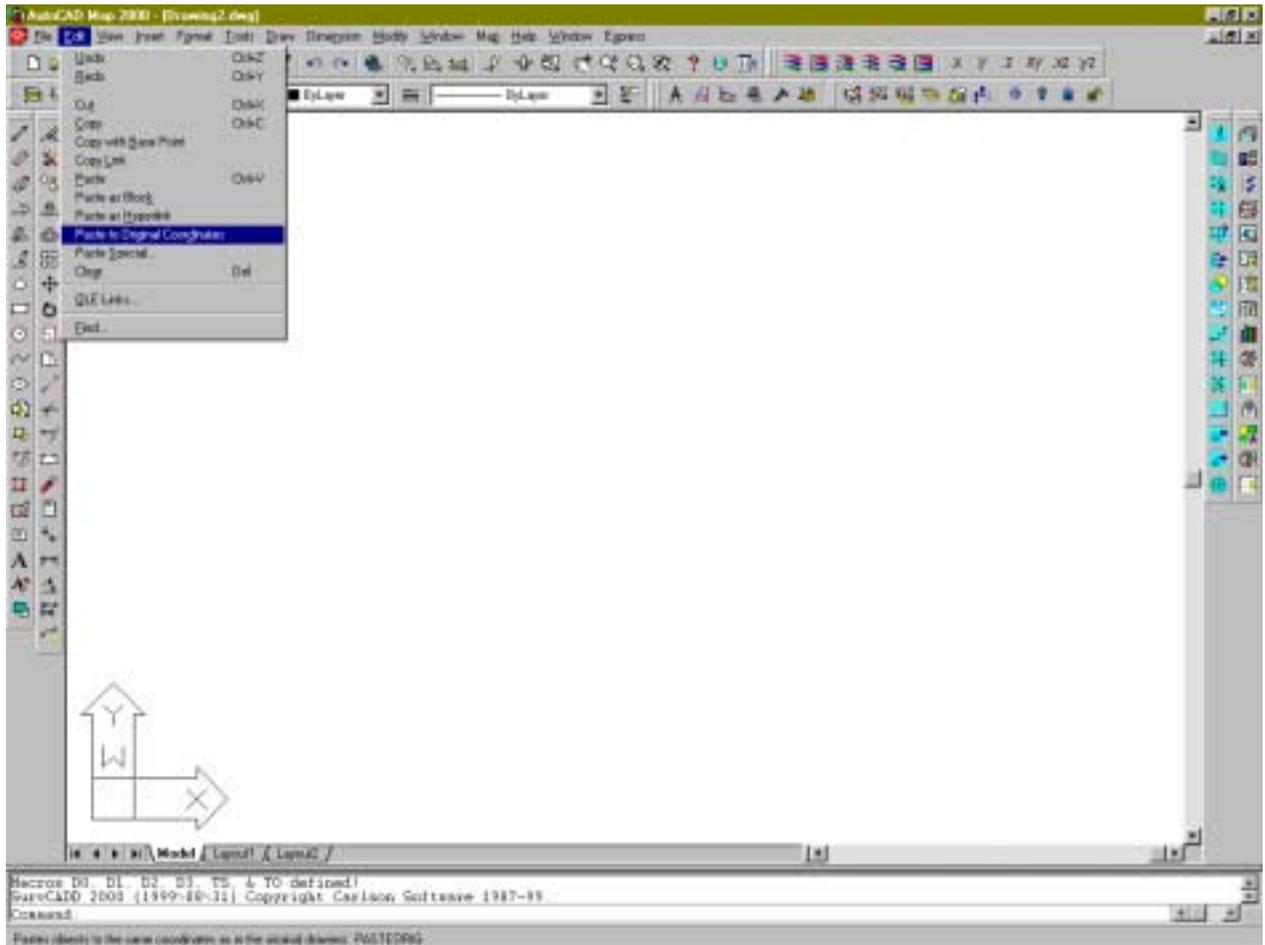
In the “Create new Drawing” dialog box, make sure that the English (feet and inches) button is checked and click on ok.



Minimize the new drawing to return to Mineproj.dwg. Select all of the lines that represent the permit boundary (magenta colored lines) then chose “copy” from the edit menu.

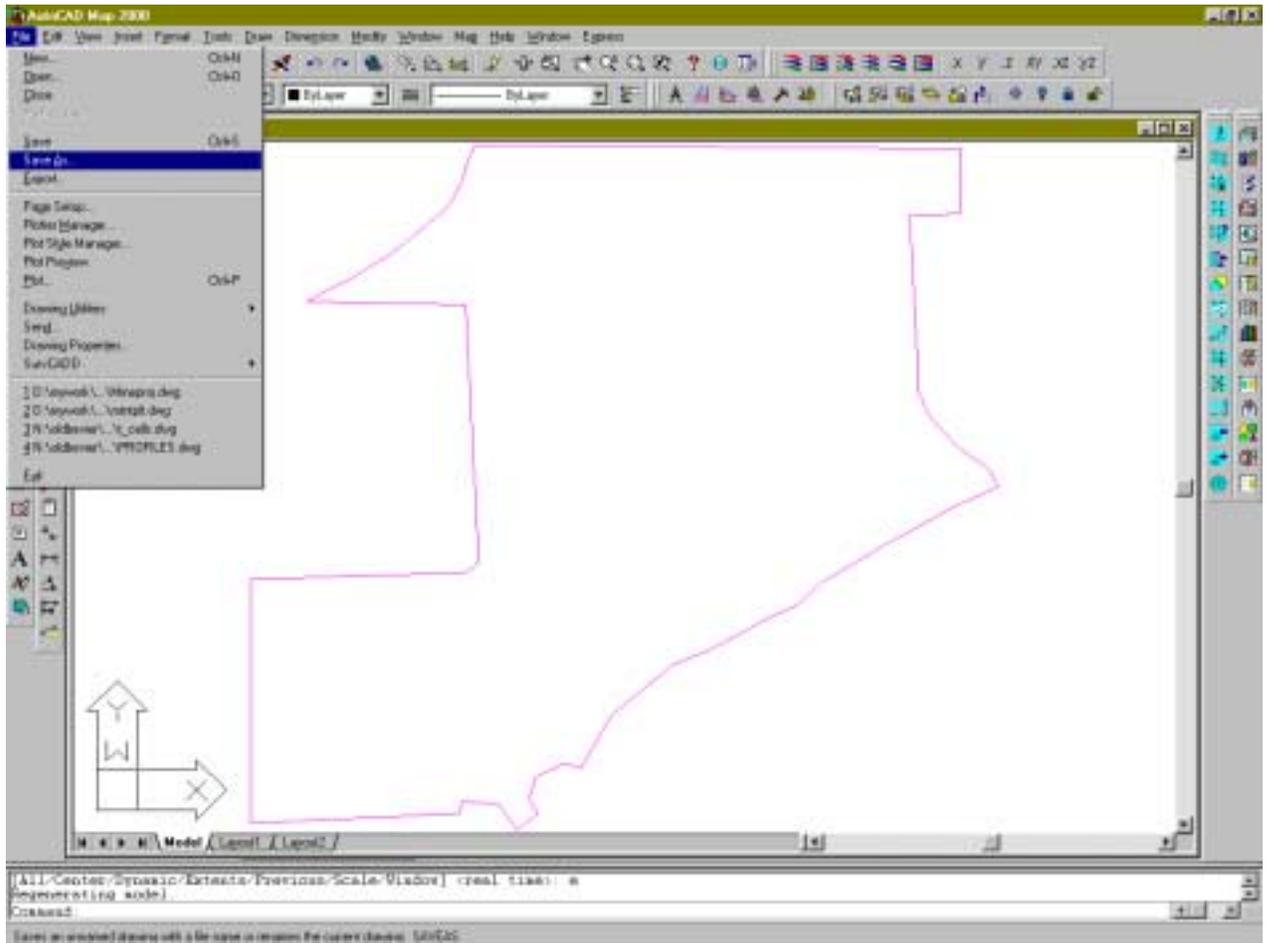


Minimize Mineproj.dwg and restore the drawing the new drawing that you just created. From the edit menu chose “Paste to original coordinates”.

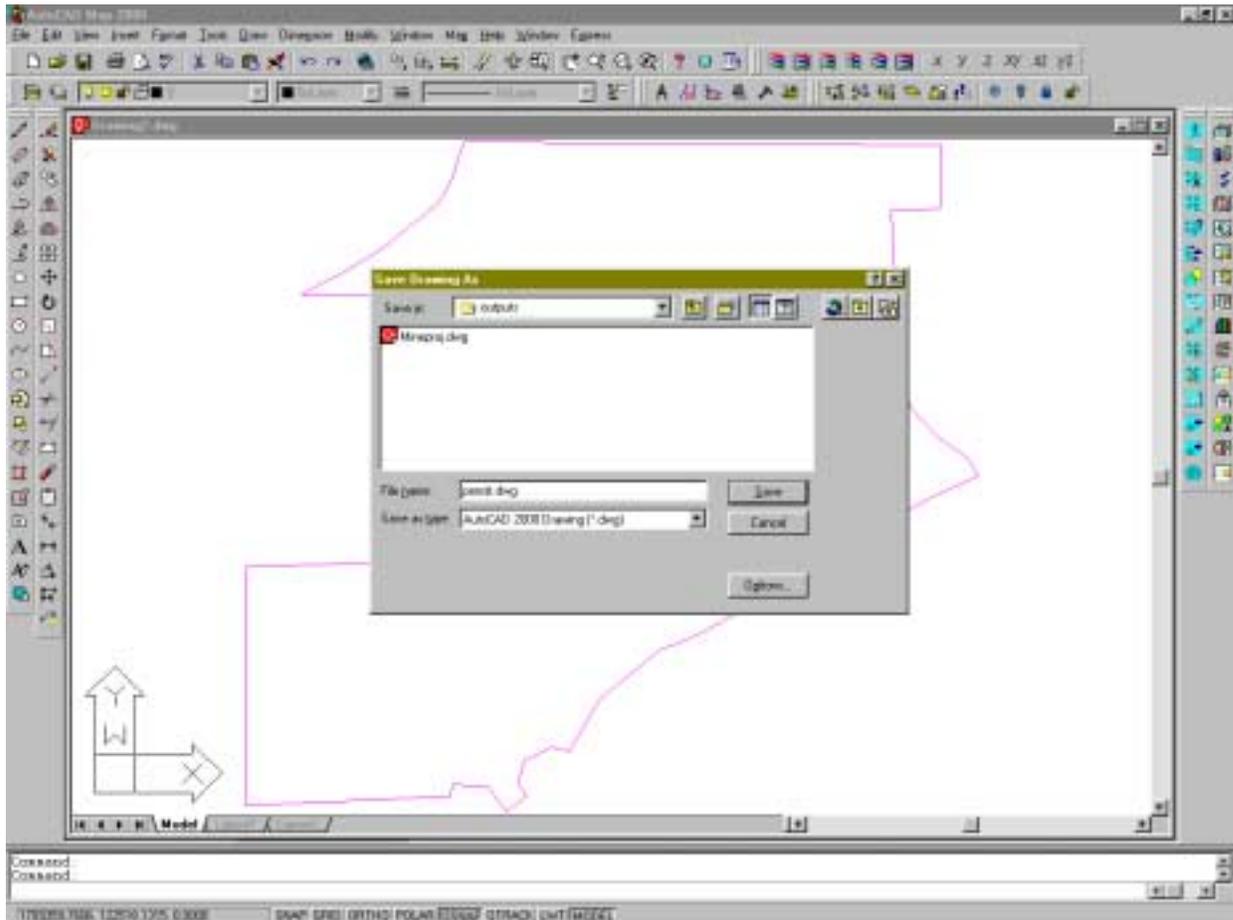


The permit boundary should now be displayed in the new drawing. If it is not visible, you may need to do zoom extents to see it properly.

From the File menu, chose “Save as” to save the new file with a different name.



Navigate to ...\\CADTRAIN\\outputs and type permit.dwg as the file name then click “save” to save the drawing with this new name.

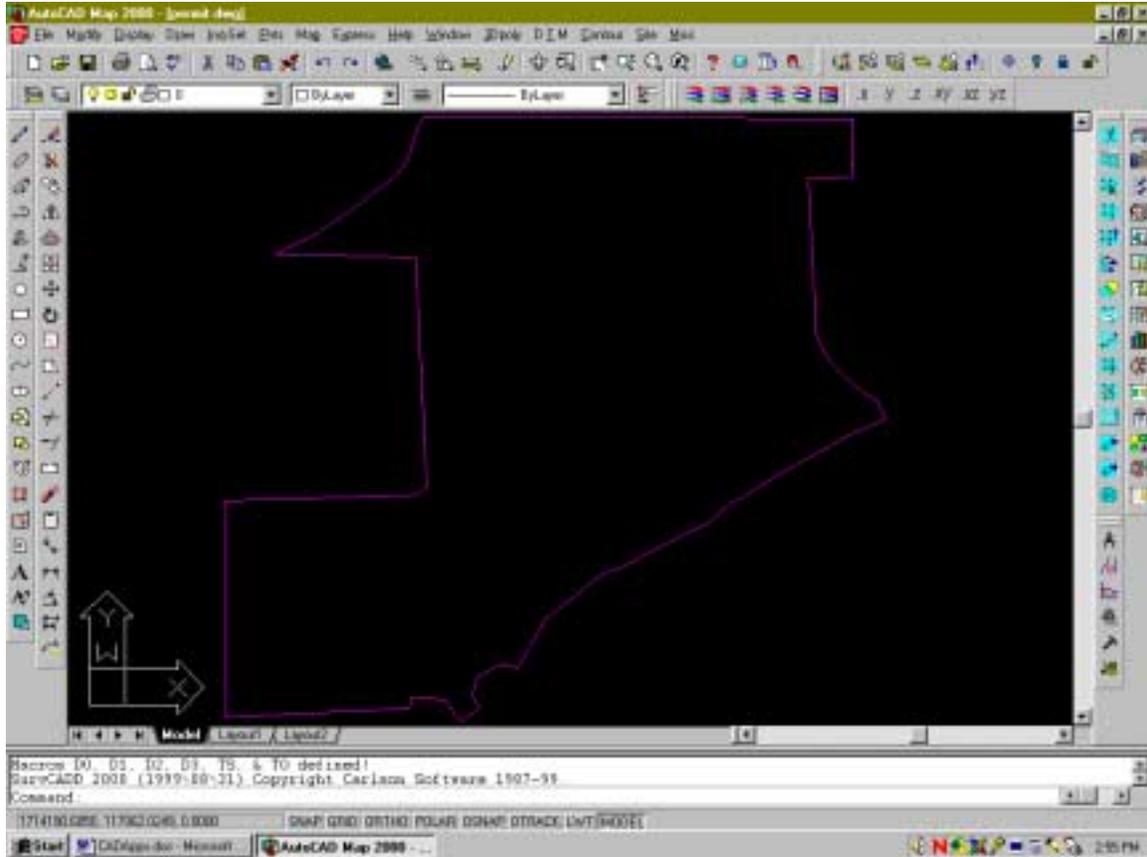


To cut rather than copy you simply chose cut from the edit menu instead of copy.

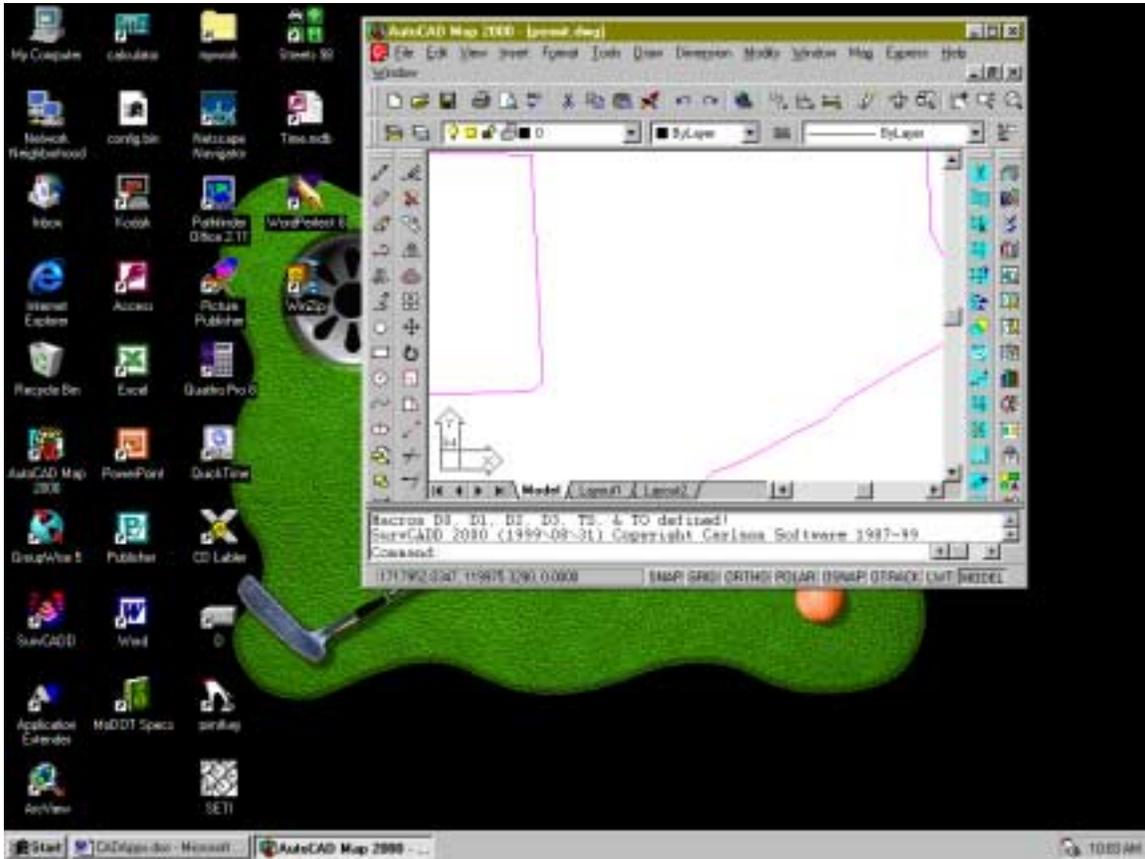
**Note:** When you use the cut command, the selected items will be removed from the source drawing. The copy command will leave the selected items in the source drawing and put a duplicate in the destination drawing.

## Into other applications

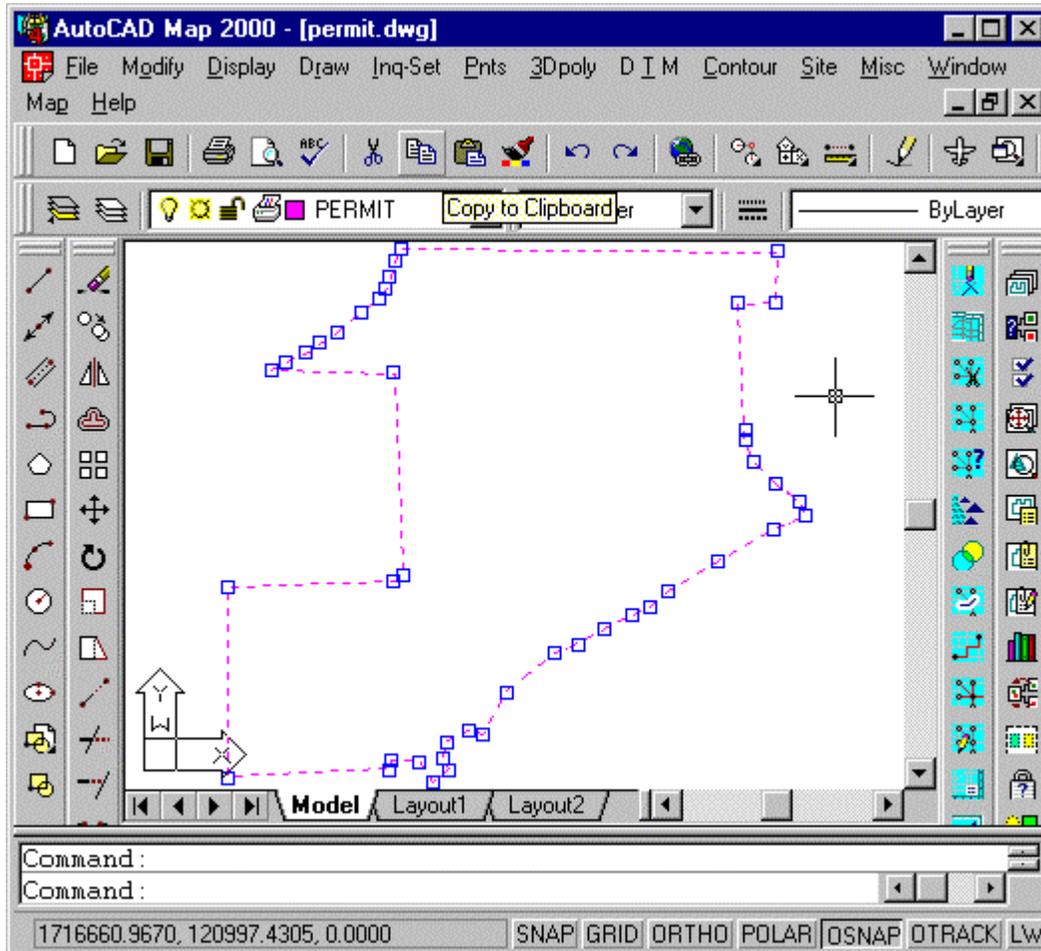
The only difference between copying between drawings and copying into another application is that the size of your AutoCAD window determines the size of the drawing when it is copied into the other application. To demonstrate, open the file that was created in the last exercise.



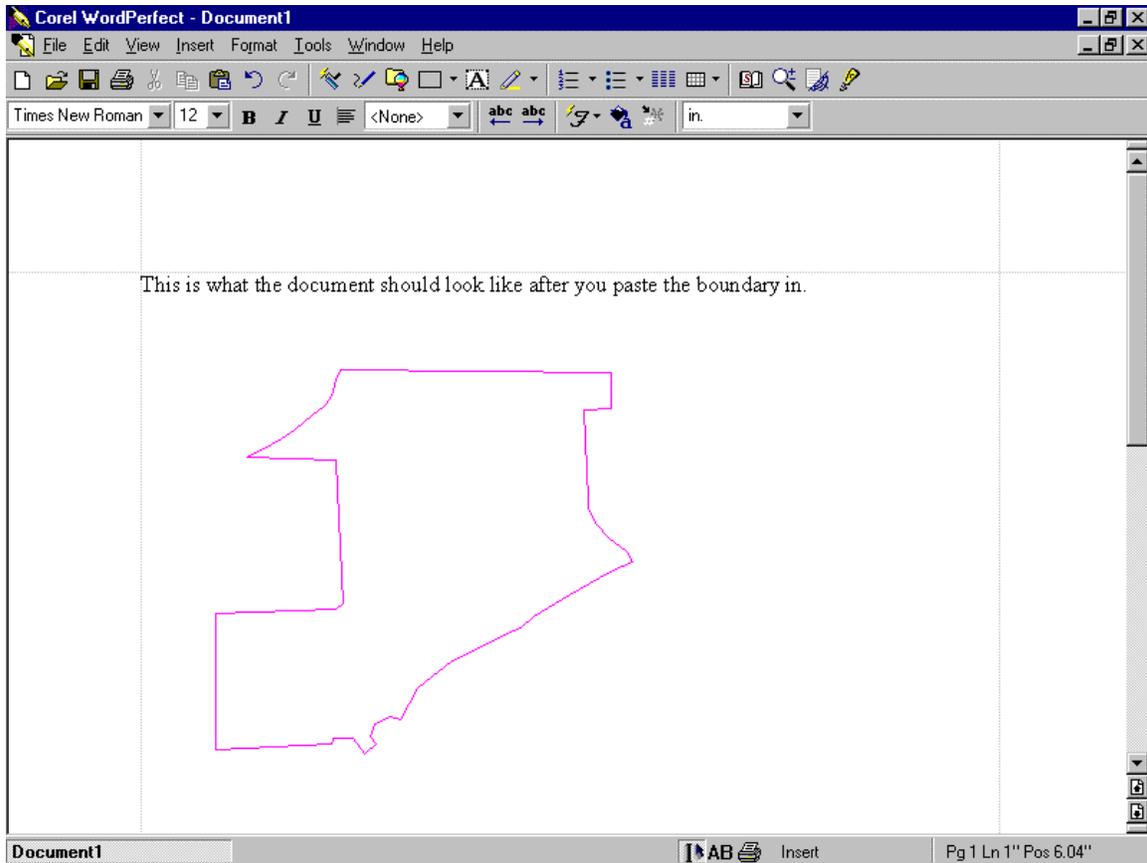
Now assume that you want to copy this drawing into a word processing program to include it in a report. The first step is to change the background color to white by right clicking and choosing options. After you have done this, size your AutoCAD window to the size that you want your drawing to appear in the document.



After you have sized the window, you will need to select the objects that you would like to copy into the document. In this exercise, select the permit boundary. Then right click and choose copy, choose copy from the edit menu, or choose copy from the standard toolbar.

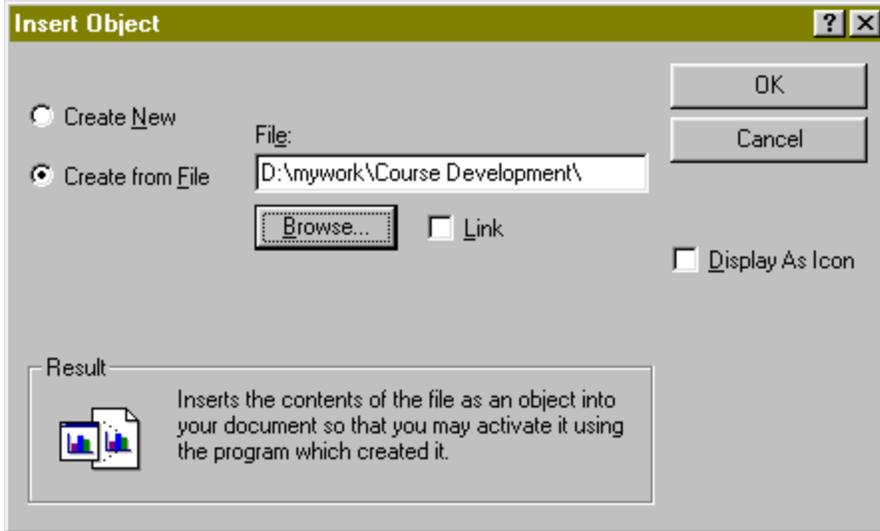


Now open a new word processor document, place the cursor where you would like the drawing placed, and then choose paste from the edit menu, standard toolbar, or by right clicking. After pasting the drawing into the document, it should look like the document below.

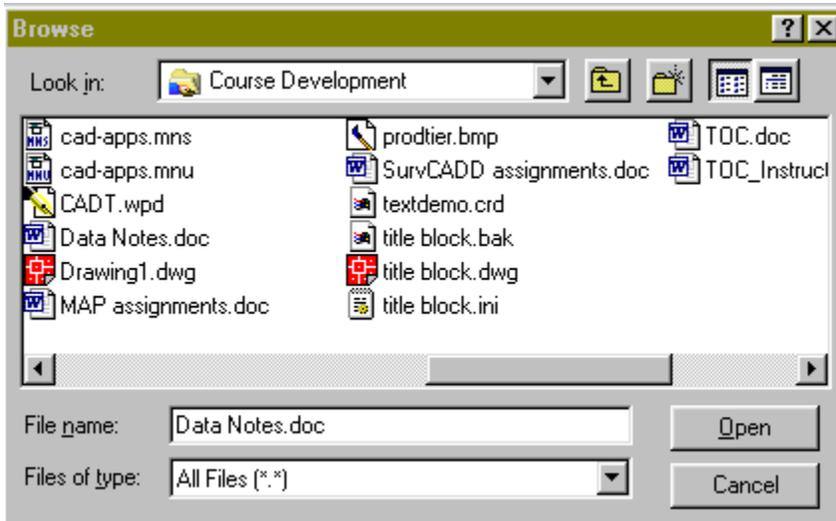


## **Text**

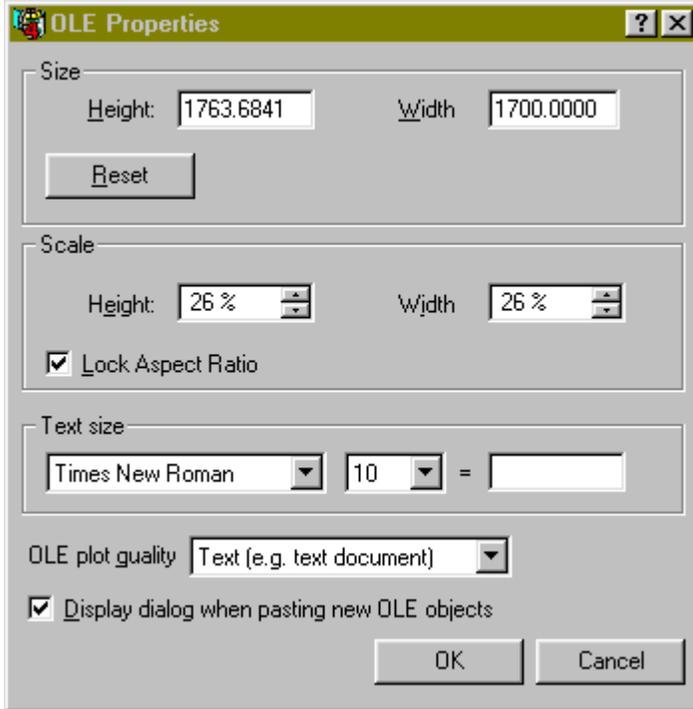
To insert a text document into a drawing, go to Insert on the AutoCAD menu. Choose OLE Object from the Insert menu. For this exercise, you will need to open the drawing used in the previous exercise and make sure that the AutoCAD menu is displayed. Go to Insert → OLE Object. You will then be given the following dialog box.



Be sure that the “Create from File” button is checked and then click on Browse. Navigate to the file Data Notes.doc and click on OK. You can also use the “Create New” option to insert a new file and start from scratch.



Click ok to insert this file. You will then see a dialog box with the properties for the object. Make sure that the lock aspect ratio box is checked and then type in 1700 in the width box. Accept the rest of the defaults and then click on OK.



Your drawing should look like the following screen. The file can be opened by double clicking on the text on the drawing, or by right clicking on the text and choosing Document Object → Open.

