

STANDARD NRCS BORDERS

CADD NOTE 6

The purpose of this CADD Note is to provide instructions on using standard NRCS borders and title blocks. If you develop a set of drawings, the style of border used should be the same for all the drawings in that set. In other words, avoid mixing border styles.

USING BORDERS

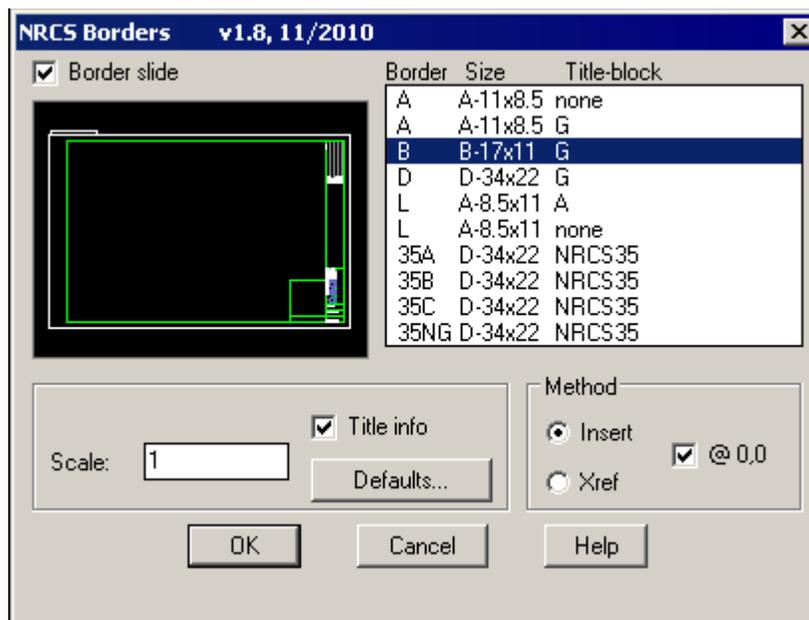
To use a border in AutoCAD, use one of the following methods:

MENU: **NRCS_MO, Standards, Borders...**

COMMAND: **borders**

ICON: 

A dialog box (shown below) will appear with a list of available borders as well as a slide of the highlighted border.



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Follow the steps below:

1. Check "Border slide" to display a snapshot of border.
2. Highlight desired border from list.
3. Enter desired scale factor.
4. Toggle "Title info"
 - ON to be prompted for title block info
 - OFF to skip prompting.
5. Click [Defaults...] to edit default values for title block info before placing border. (See BORDER NOTES section later in this document for an explanation of title info and defaults)
6. Select either INSERT or XREF as the placement method. (See BORDER NOTES section later in this document for an explanation of these methods.) Check "@0,0" if you want the border inserted at 0,0 coordinates.
7. Press OK. If "@0,0" was not selected, place border where desired.
8. If "Title info" was selected, enter the title data.

Table 6.1. List of available borders.

Border	Paper Size ¹	Title Block
A	A (11x8.5)	G
B	B (17x11)	G
D	D (34x22)	G
L	A (11x8.5)	A
L	A (11x8.5)	none
35A	D (34x22)	NRCS35
35B	D (34x22)	NRCS35
35C	D (34x22)	NRCS35
35NG	D (34x22)	NRCS35

¹ This is the intended paper size for plotting the border (no trim lines).

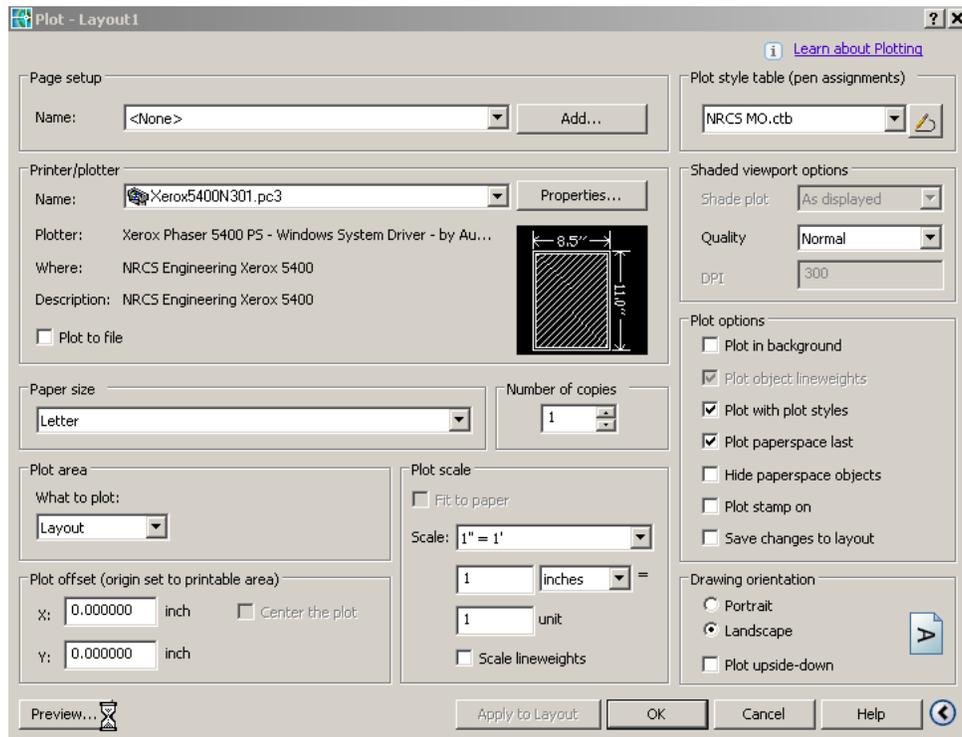
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PLOTTING BORDERS

The standard borders (without trim lines) were designed to fit on specific sheet sizes as listed in Table 6.1. The matching paper size letter (e.g., B or D) should be chosen in AutoCAD's plot dialog box. The dimensions given in the dialog box are for plot area and will be slightly smaller than the actual paper size. The trim line included with the border is the intended sheet size. It can be plotted along with the border if plotted on the next size sheet or larger (e.g., a border intended for A size paper can be plotted with the trim line on B or larger size paper).

The preferred method of inserting and plotting a standard border is as follows:

1. Insert border as instructed above with a scale factor of 1 at 0,0 on a layout tab. You should only place one border on a layout tab.
2. Begin a plot by selecting “File -> Plot”, right-clicking on layout tab and selecting “Plot”, or by typing PLOT at the command line.



3. Select desired printer and paper size.
4. Select desired plot style table (usually this will be NRCS MO.ctb)
5. For “What to plot:”, select Layout.
6. Set plot scale to 1 in = 1 unit.
7. Set Drawing orientation to match border being plotted (usually will be landscape).
8. Click [Preview...]. If it looks correct, right-click and select Exit.
9. Click [Apply to Layout] to save this page setup.
10. Click [OK] to plot.

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BORDER NOTES

PLACEMENT METHOD

- INSERT : Using this method will place an AutoCAD block in the drawing. It then becomes a part of the drawing (i.e., increasing drawing size accordingly).
- XREF : Using this method will attach a cross reference to the drawing file (i.e., the border is not actually a part of the current drawing). If the border drawing file is ever changed, the current drawing will be updated as well. If the current drawing file is ever given to someone else you would need to provide the border drawing as well or bind the border drawing .
- NOTE : Once a border is placed in a drawing with one of the above methods, another one cannot be placed with the other method.

TITLE INFO

Selecting "Title info" will prompt you for the text that belongs in the title block (e.g., Drawn by and date, etc.). The text will be placed (as a block) in the correct location with the appropriate properties. If you wish to position an item differently or use different properties, leave the field blank and enter the text manually with AutoCAD's TEXT, DTEXT, or MTEXT commands.

To edit the text at a later time, you can

- a) Double-click the text you want to edit.
- b) Use the command EATTEDIT ( button on toolbar) and pick the text, or
- c) Use the command DDATTE ( button on toolbar) and pick the text.

REMINDER: The title info will be a separate block from the border placed. If you wish to move the border, be sure to select the entered text as well as the border.

WARNING: The title info is a block containing attribute definitions. It should therefore NOT be EXPLODED.

DEFAULTS:

If there are some title info fields (i.e., attributes) that you find yourself frequently entering the same value for, click the [**Defaults...**] button. This will open (in Notepad) the file used for storing these default values. You will need to know the name of the attribute field you are interested in. This will show up in the "Tag" column when using the EATTEDIT command explained above. Simply find the line containing the attribute name desired and enter the default text after the = (equal sign). If the attribute is not there, you can simply add a line in the format -

ATTRIBUTENAME=default value

Once the changes are made, save the file (File -> Save) and then exit Notepad. You should then see a message box where you should click OK to read in the new values. You are then ready to insert the border.

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LAYERS

The border drawing layers contain entities as outlined below. This list is a minimum. Some borders may have more layers than this. Layer names follow an NRCS layer standard (see CADD Note 5).

<u>Layer</u>	<u>Entities</u>
4.Tblk.Brdr.Line	Border lines
4.Tblk.DateTime	Date and time
4.Tblk.Logo	NRCS Logo
4.Tblk.Note	Misc. notes/instructions for using the drawing (These are usually not intended to be plotted.)
4.Tblk.Text	Permanent title block text
4.Tblk.Text.Attr	User entered text for the title block
4.Tblk.Trim	Trim line. This line defines the border's intended paper size. If plotted on a bigger sheet, this line is used as a trimming guide.

NOTE : If the border was placed using XREF, the above layer names will be prefixed with "bordername".