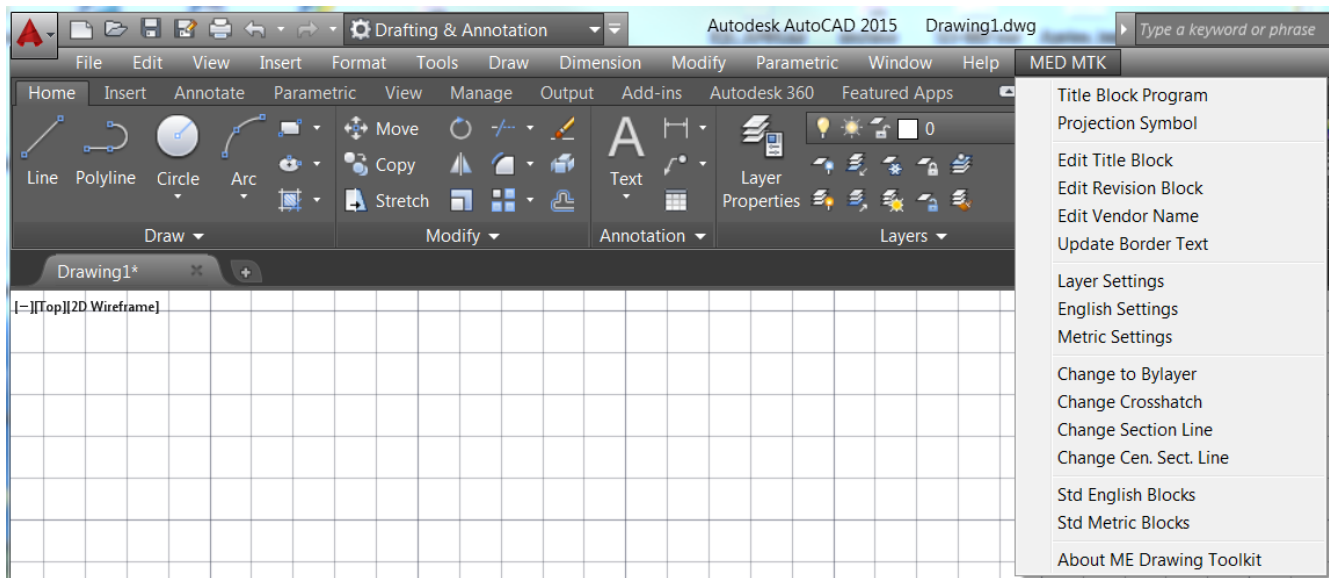
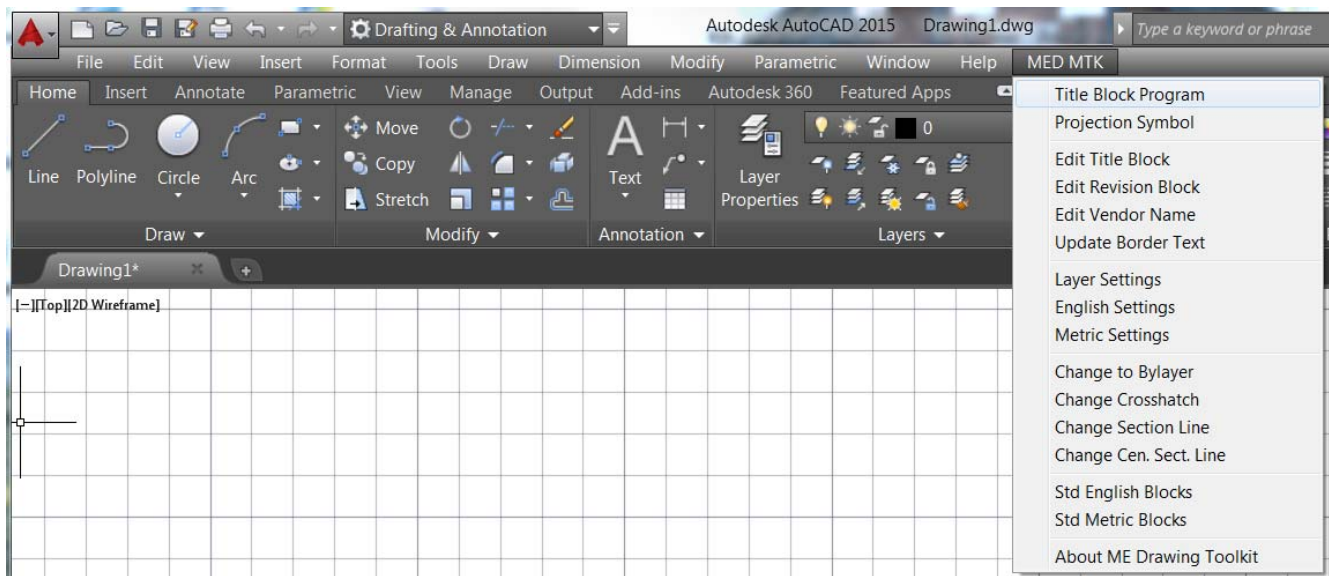


Manufacturing Engineering Drawing Toolkit for AutoCAD

User Interface—Drop down menu options



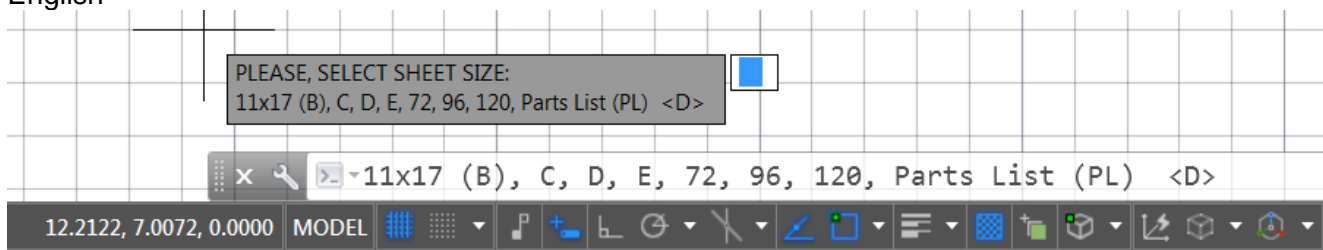
Title Block Program



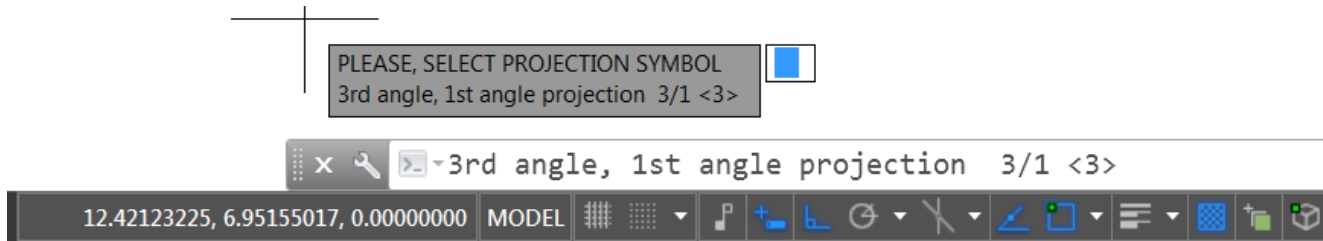
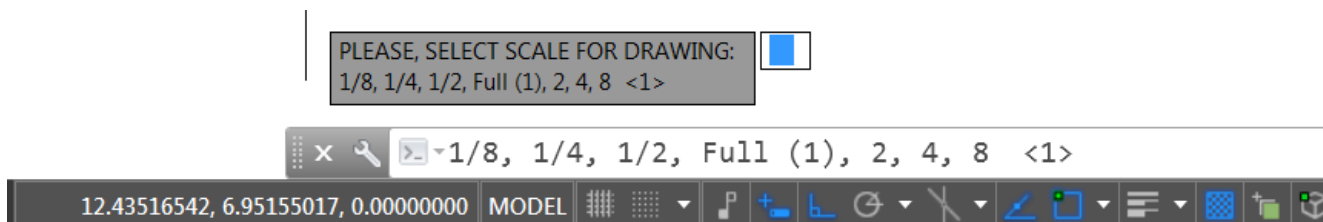
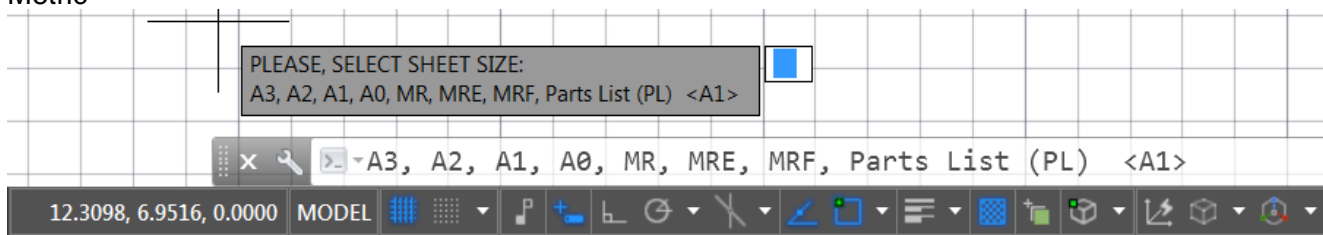
Opens a Command line dialog in the lower left corner for building a drawing sheet
Identify measuring units

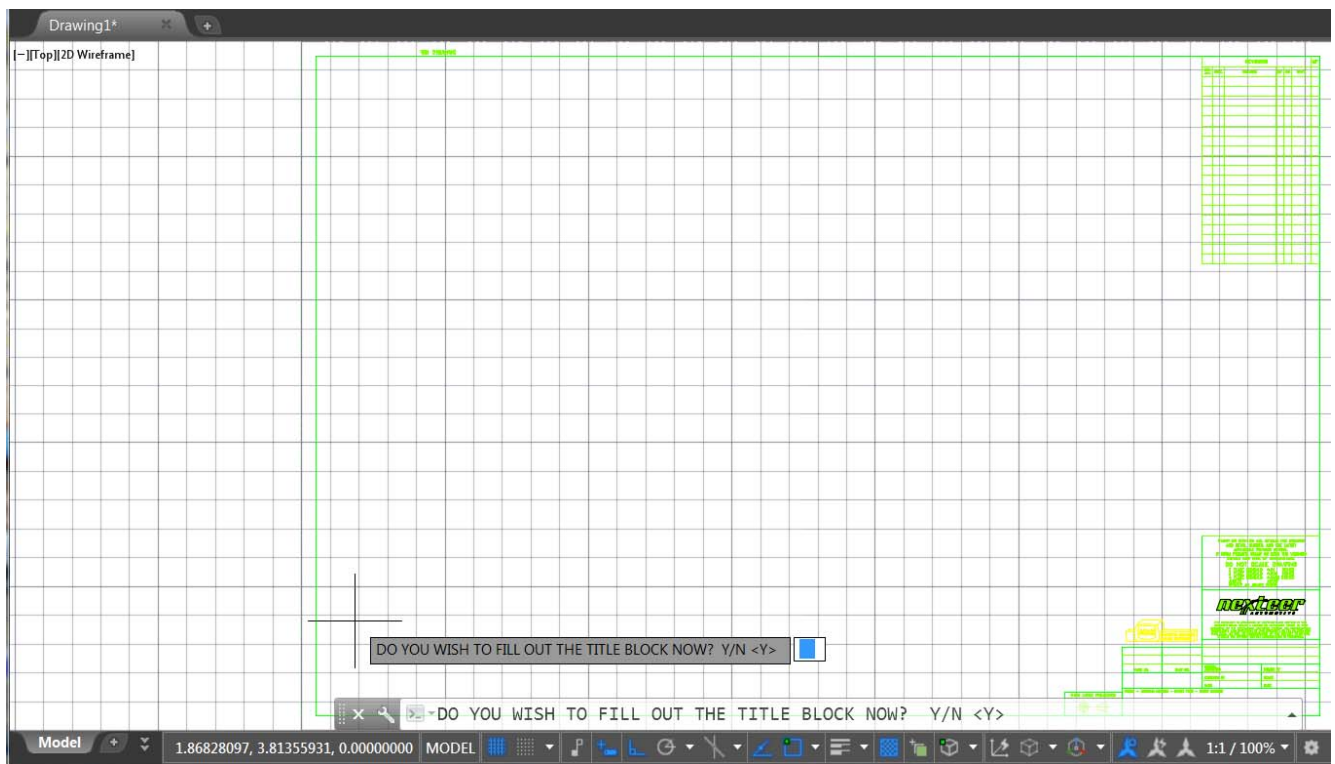


Select Sheet Size
English



Metric





Title Block data entry window prompt 1

The screenshot shows a dialog box titled "Edit Attributes" with a close button (X) in the top right corner. The dialog contains the following fields and labels:

- Block name: ETITLEBLK
- PREFIX - DRAWING NUMBER - SHEET 1
- No Entry Req'd (SHEET)
- No Entry Req'd (SHTS)
- No Entry Req'd (PLANT)
- First Line of Description
- Second Line of Description
- Third Line of Description
- Design Approved By

At the bottom of the dialog are five buttons: OK, Cancel, Previous, Next, and Help. The "Next" button is highlighted with a blue border.

(ETITLEBLK for English MTITLEBLK for Metric)

No data entry is required for SHEET, SHTS, and PLANT. These are placeholders to facilitate alignment of the of legacy Delphi title block data to the Nexteer title block.

Title Block data entry window prompt 2

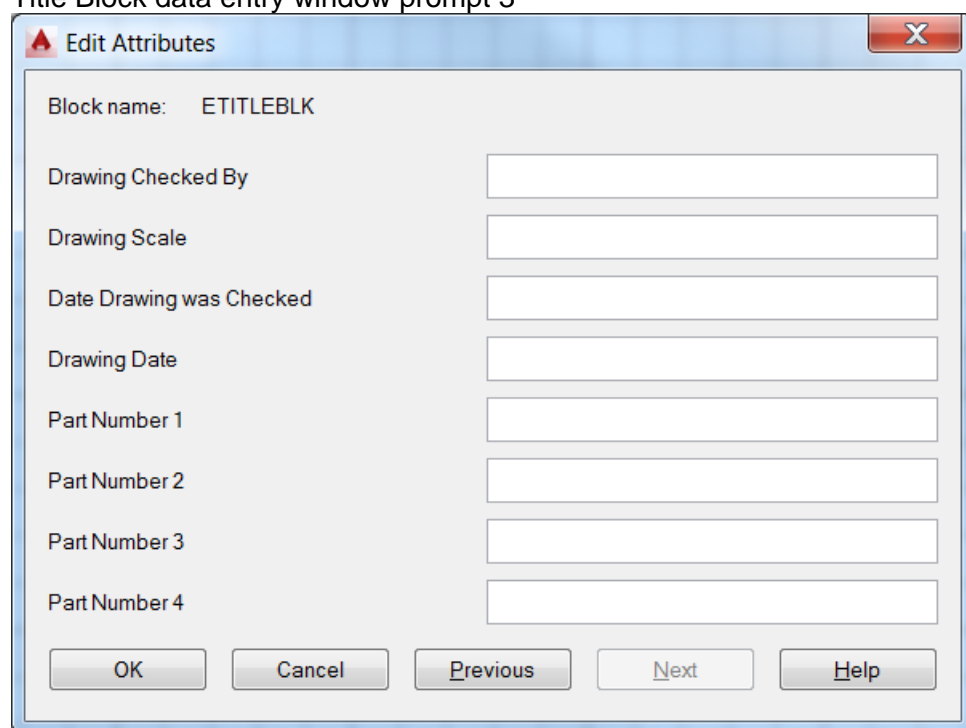
The screenshot shows a dialog box titled "Edit Attributes" with a close button (X) in the top right corner. The dialog contains the following fields and labels:

- Block name: ETITLEBLK
- Drawn By
- Drawing Checked By
- Drawing Scale
- Date Drawing was Checked
- Drawing Date
- Part Number 1
- Part Number 2
- Part Number 3

At the bottom of the dialog are five buttons: OK, Cancel, Previous, Next, and Help. The "Next" button is highlighted with a blue border.

(ETITLEBLK for English MTITLEBLK for Metric)

Title Block data entry window prompt 3



Block name: ETITLEBLK

Drawing Checked By

Drawing Scale

Date Drawing was Checked

Drawing Date

Part Number 1

Part Number 2

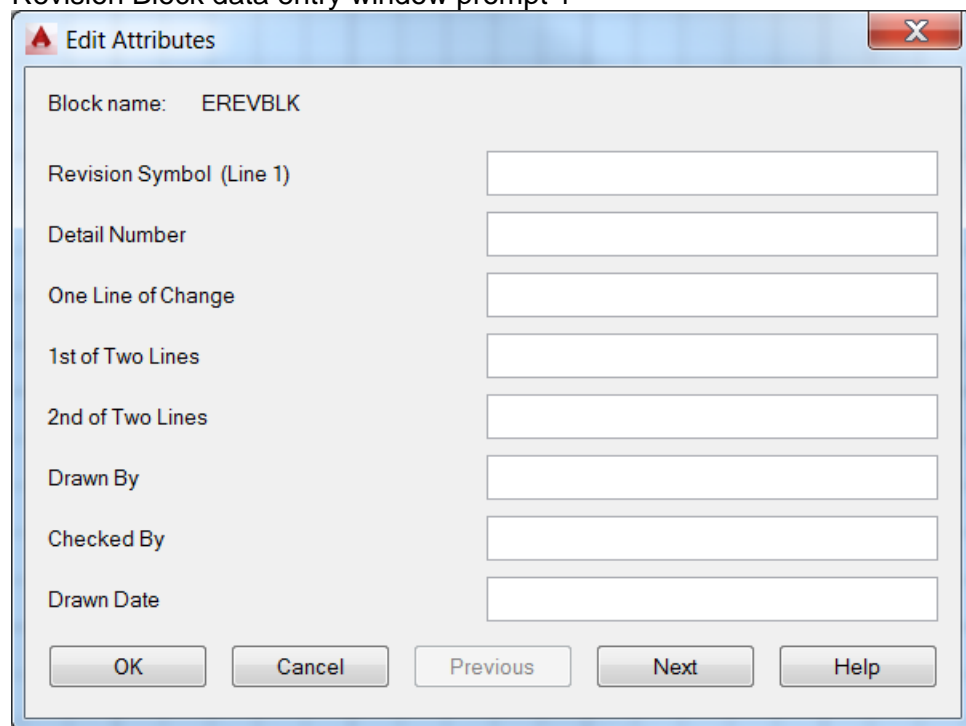
Part Number 3

Part Number 4

OK Cancel Previous Next Help

(ETITLEBLK for English MTITLEBLK for Metric)

Revision Block data entry window prompt 1



Block name: EREVBLK

Revision Symbol (Line 1)

Detail Number

One Line of Change

1st of Two Lines

2nd of Two Lines

Drawn By

Checked By

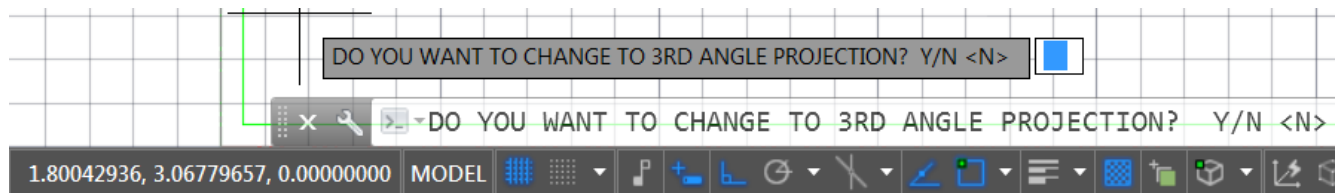
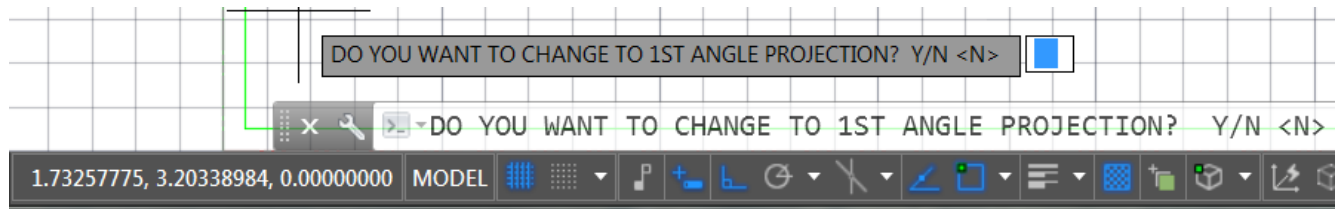
Drawn Date

OK Cancel Previous Next Help

(EREVBLK for English MREVBLK for Metric)

Projection Symbol

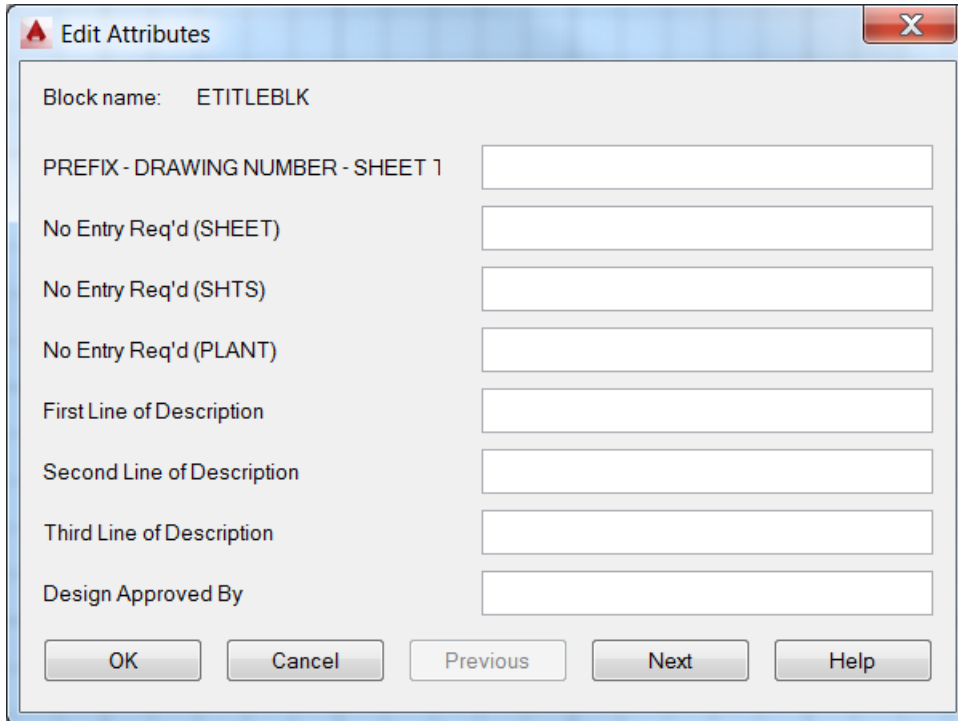
This function swaps the projection symbol in a ME Drawing Title Block sheet between First and Third Angle Projection.



Edit Title Block

This function allows modification of title block parameters on drawing templates created with the AutoCAD ME Drawing Toolkit.

Edit Title Block--Screen 1 of 3



The screenshot shows a Windows-style dialog box titled "Edit Attributes" with a close button (X) in the top right corner. The dialog contains the following fields and labels:


- Block name: ETITLEBLK
- PREFIX - DRAWING NUMBER - SHEET 1
- No Entry Req'd (SHEET)
- No Entry Req'd (SHTS)
- No Entry Req'd (PLANT)
- First Line of Description
- Second Line of Description
- Third Line of Description
- Design Approved By

At the bottom of the dialog are five buttons: OK, Cancel, Previous, Next, and Help.

(ETITLEBLK for English MTITLEBLK for Metric)

No data entry is required for SHEET, SHTS, and PLANT. These are placeholders to facilitate alignment of the of legacy Delphi title block data to the Nexteer title block.

Edit Title Block--Screen 2 of 3

 Edit Attributes

Block name: ETITLEBLK

Drawn By

Drawing Checked By

Drawing Scale

Date Drawing was Checked

Drawing Date

Part Number 1

Part Number 2

Part Number 3

OK

Cancel


Previous

Next

Help

(ETITLEBLK for English MTITLEBLK for Metric)

Edit Title Block--Screen 3 of 3

 Edit Attributes

Block name: ETITLEBLK

Drawing Checked By

Drawing Scale

Date Drawing was Checked

Drawing Date

Part Number 1

Part Number 2

Part Number 3

Part Number 4

OK

Cancel

Previous

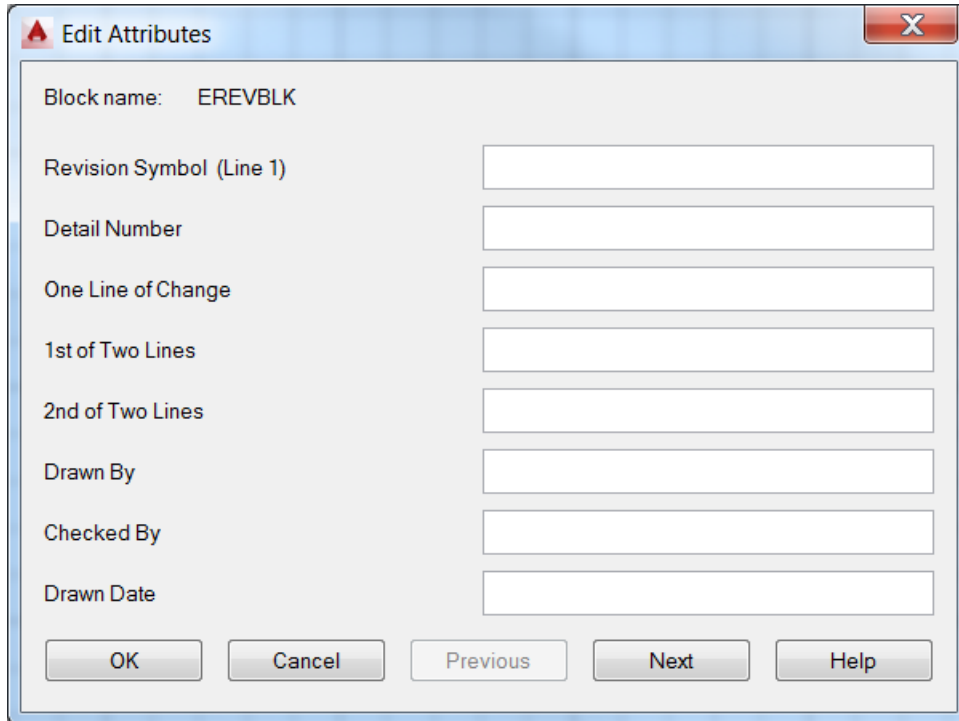
Next

Help

(ETITLEBLK for English MTITLEBLK for Metric)

Edit Revision Block

This function allows modification of revision block parameters on drawing templates created with the AutoCAD ME Drawing Toolkit.



The screenshot shows a Windows-style dialog box titled "Edit Attributes" with a red close button in the top right corner. The dialog contains several input fields for editing a revision block. The "Block name" is pre-filled with "EREVBLK". Below it are seven empty text boxes for "Revision Symbol (Line 1)", "Detail Number", "One Line of Change", "1st of Two Lines", "2nd of Two Lines", "Drawn By", and "Checked By". At the bottom, there is an empty text box for "Drawn Date". At the very bottom of the dialog are five buttons: "OK", "Cancel", "Previous", "Next", and "Help".

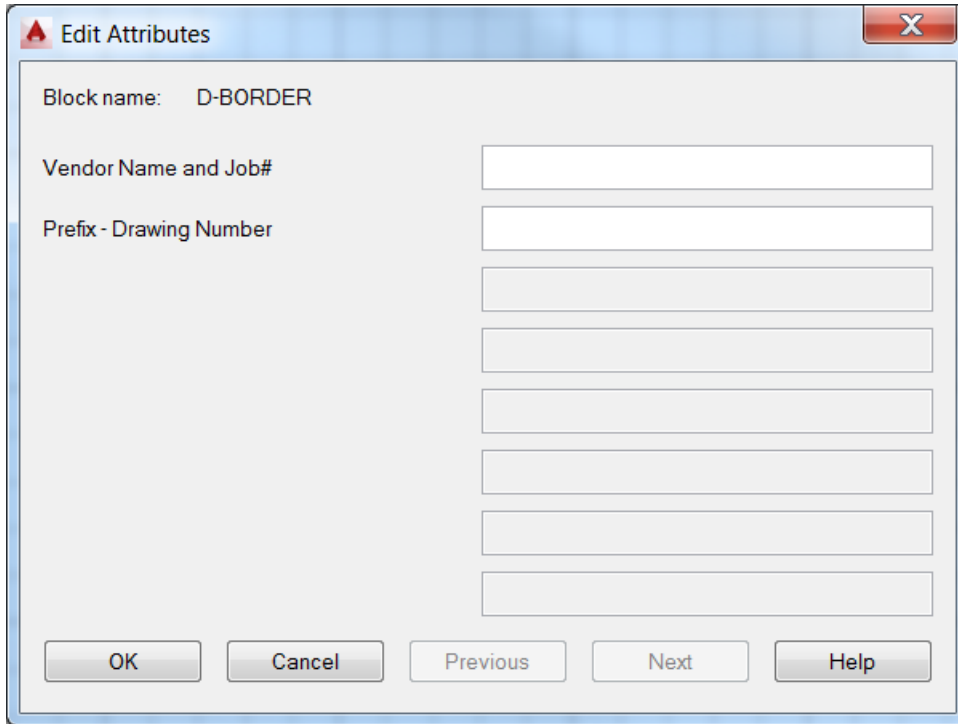
Block name:	EREVBLK
Revision Symbol (Line 1)	
Detail Number	
One Line of Change	
1st of Two Lines	
2nd of Two Lines	
Drawn By	
Checked By	
Drawn Date	

OK Cancel Previous Next Help

(EREVBLK for English MREVBLK for Metric)

Edit Vendor Name

This function allows modification of drawing border parameters on drawing templates created with the AutoCAD ME Drawing Toolkit.



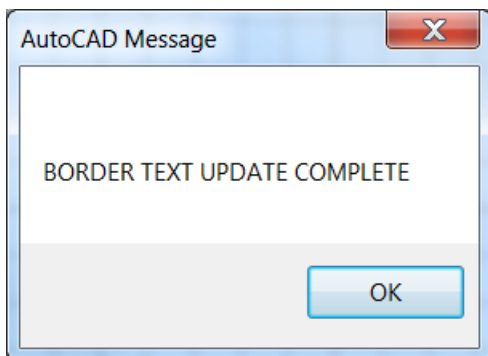
The 'Edit Attributes' dialog box is shown with the following fields and buttons:

- Block name: D-BORDER
- Vendor Name and Job#
- Prefix - Drawing Number
- OK
- Cancel
- Previous
- Next
- Help

(Variable BORDER depending on sheet size; D-size shown:D-BORDER)

Update Border Text

This function refreshes arguments of the drawing border parameters on drawing templates created with the AutoCAD ME Drawing Toolkit. Upon completion the pop-up window below is shown.



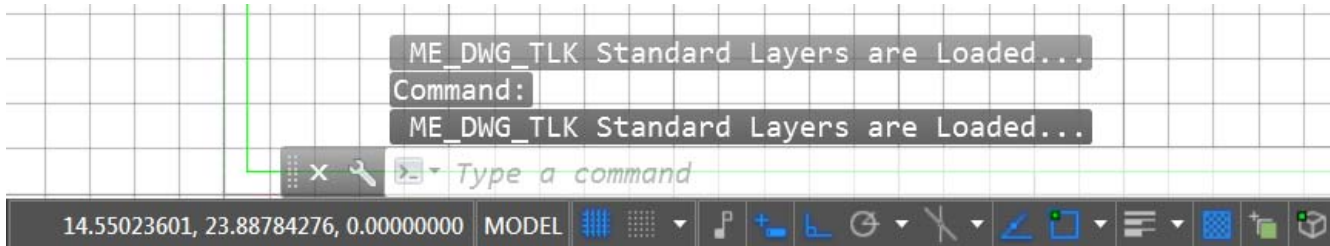
The 'AutoCAD Message' dialog box displays the message:

BORDER TEXT UPDATE COMPLETE

With an OK button at the bottom right.

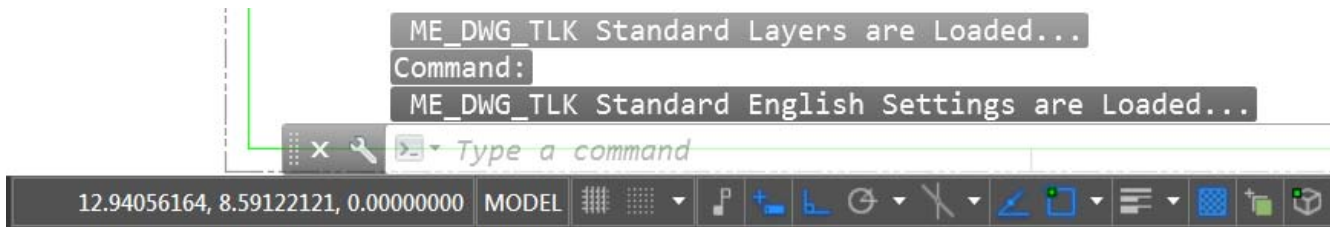
Layer Settings (See Appendix)

The Layer Settings function loads the defined standard layers, colors, linetypes detailed in the AutoCAD Manufacturing Engineering Standards document.



English Settings (See Appendix)

The English Settings function loads variables for the defined standard English settings detailed in the AutoCAD Manufacturing Engineering Standards document.



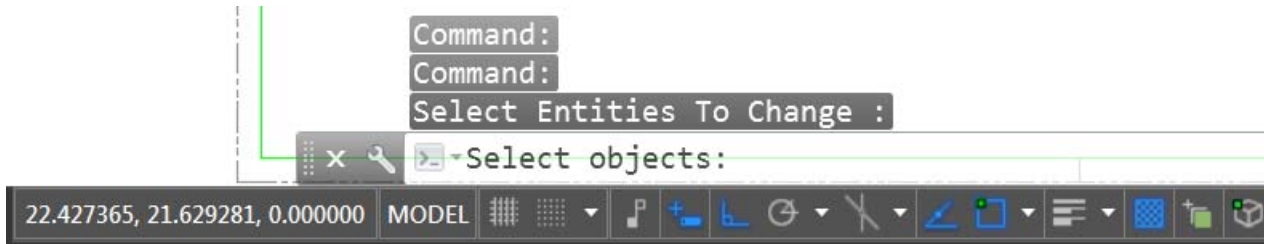
Metric Settings (See Appendix)

The Metric Settings function loads variables for the defined standard Metric settings detailed in the AutoCAD Manufacturing Engineering Standards document.



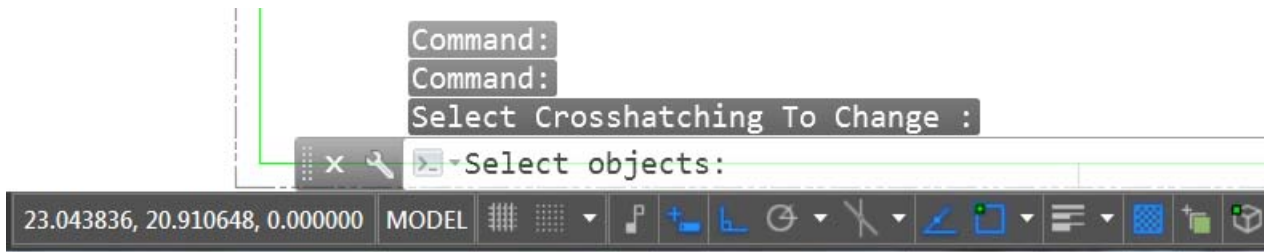
Change to Bylayer

This function changes properties of selected objects to bylayer.



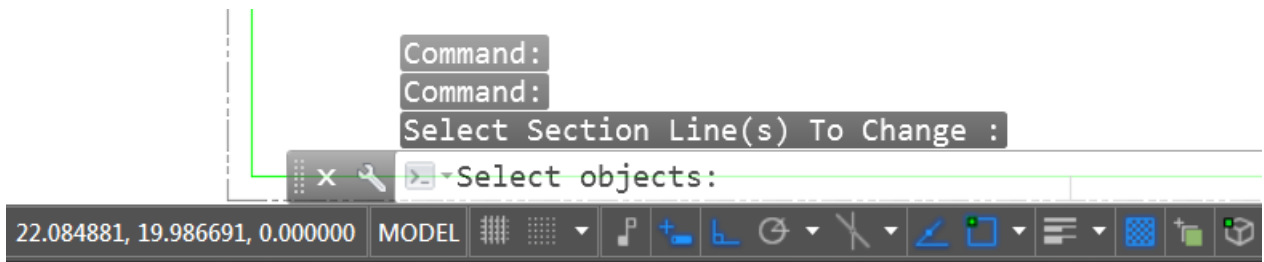
Change Crosshatch

This function changes properties of selected objects crosshatching.



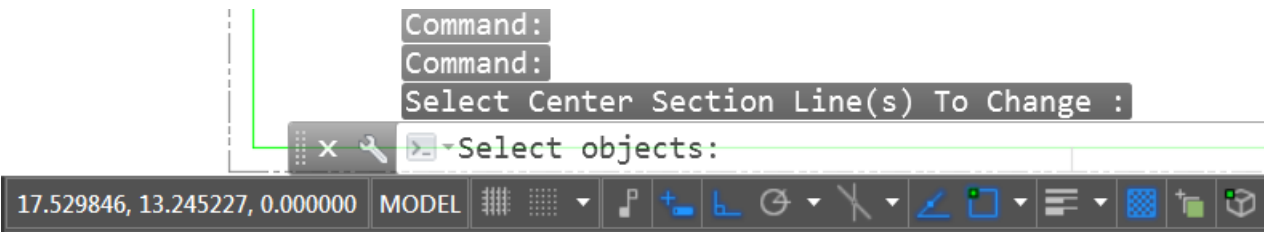
Change Section Line

This function changes properties of selected section lines(s).



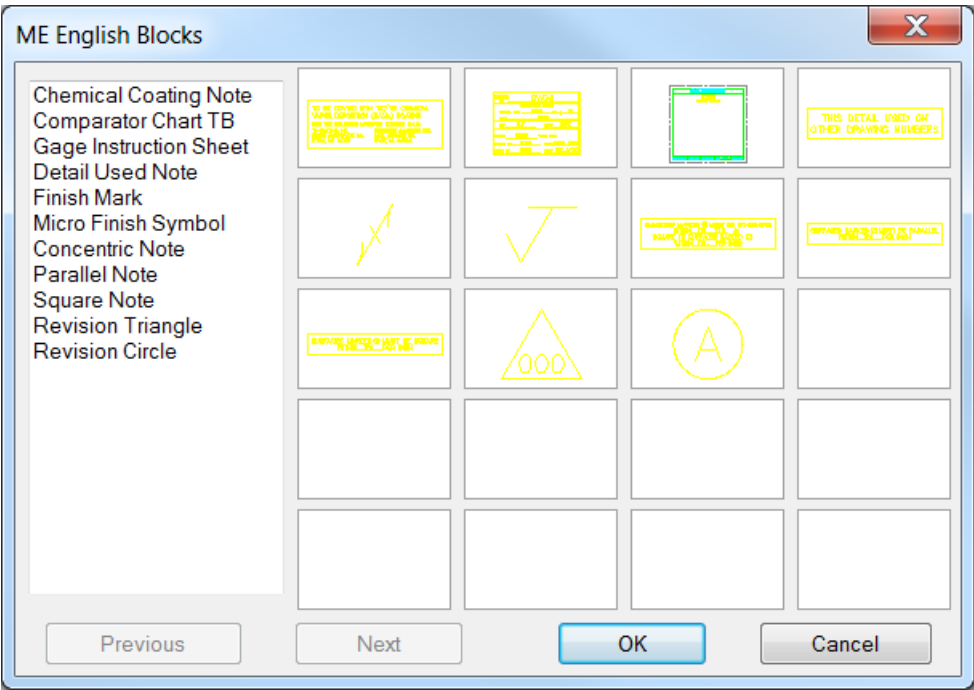
Change Cen. Sect. Line

This function changes properties of selected center section line.



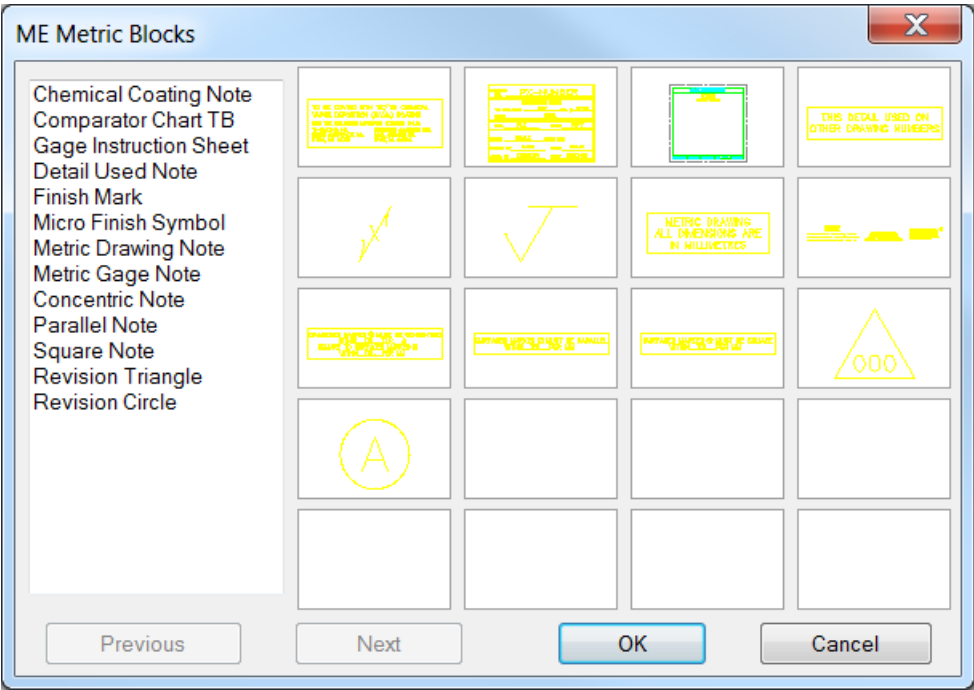
Standard English Blocks

The menu allows insertion of selected standardized defined English drawing blocks.



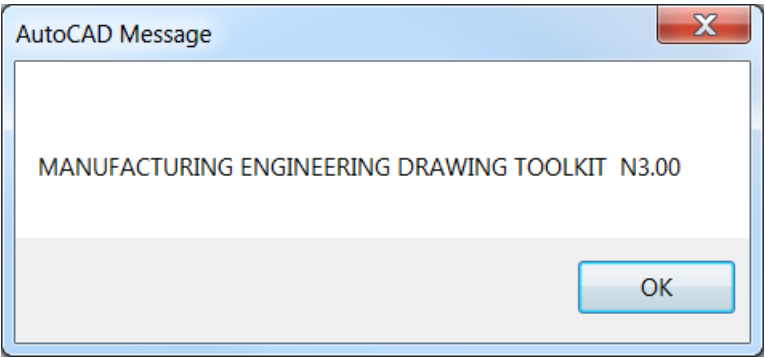
Standard Metric Blocks

The menu allows insertion of selected standardized defined Metric drawing blocks.



About ME Drawing Toolkit

Displays the loaded version of the ME Drawing Toolkit



APPENDIX

AutoCAD Default Layer Settings (**Layer Settings**)

```
(defun setlayers ()
  (setq cdeo (getvar "CMDECHO"))
  (setvar "cmdecho" 0)
  (command "._layer" "_C" "7" "0"
    "M" "HID" "C" "6" "HID" "LT" "HIDDEN" "HID"
    "M" "CEN" "C" "4" "CEN" "LT" "CENTER" "CEN"
    "M" "CUT" "C" "135" "CUT" "LT" "PHANTOM" "CUT"
    "M" "CCUT" "C" "135" "CCUT" "LT" "CENTER" "CCUT"
    "M" "DIMS" "C" "2" "DIMS" "LT" "CONTINUOUS" "DIMS"
    "M" "HATCH" "C" "5" "HATCH" "LT" "CONTINUOUS" "HATCH"
    "M" "OBJ_BRK" "C" "1" "OBJ_BRK" "LT" "CONTINUOUS" "OBJ_BRK"
    "M" "DIM_BRK" "C" "2" "DIM_BRK" "LT" "CONTINUOUS" "DIM_BRK"
    "M" "REF" "C" "202" "REF" "LT" "PHANTOM" "REF"
    "M" "PART" "C" "12" "PART" "LT" "PHANTOM2" "PART"
    "M" "PART2" "C" "30" "PART2" "LT" "PHANTOM2" "PART2"
    "M" "PART3" "C" "190" "PART3" "LT" "PHANTOM2" "PART3"
    "M" "VIEW_BNDS" "C" "253" "VIEW_BNDS" "LT" "PHANTOM" "VIEW_BNDS"
    "M" "BORDER" "C" "90" "BORDER" "LT" "CONTINUOUS" "BORDER"
    "M" "CONTROLS" "C" "7" "CONTROLS" "LT" "CONTINUOUS" "CONTROLS"
    "M" "BORDER_TXT" "C" "130" "BORDER_TXT" "LT" "CONTINUOUS" "BORDER_TXT"
    "M" "OBJ" "C" "3" "OBJ" "LT" "CONTINUOUS" "OBJ" "")
  (setvar "cmdecho" cdeo)
  (princ)
)
```

AutoCAD Default English Parameters (**English Settings**)

```
(defun setenglish ()
  (setq cdeo (getvar "CMDECHO"))
  (setvar "cmdecho" 0)
  (setvar "aunits" 1)
  (setvar "auprec" 2)
  (setvar "blipmode" 0)
  (setvar "cecolor" "bylayer")
  (setvar "celtype" "bylayer")
  (setvar "chamfera" 0.125)
  (setvar "chamferb" 0.125)
  (setvar "cmlscale" 0.5)
  (setvar "coords" 1)
  (setvar "dimalt" 0)
  (setvar "dimaltd" 2)
  (setvar "dimaltf" 25.4)
  (setvar "dimaso" 1)
  ... 2002 vars
  ... (setvar "dimassoc" 1)
  ... (setvar "dimlwd" -1)
  ... (setvar "dimlwe" -1)
  ... 2002 vars
  (setvar "dimasz" 0.125)
  (setvar "dimcen" 0.0625)
```

```

(setvar "dimclrd" 256)
(setvar "dimclre" 256)
(setvar "dimclrt" 256)
(setvar "dimdli" 0.25)
(setvar "dimexe" 0.09375)
(setvar "dimexo" 0.0625)
(setvar "dimgap" 0.0625)
(setvar "dimlfac" 1.000)
(setvar "dimrnd" 0.0000)
(setvar "dimsho" 1)
(setvar "dimtad" 0)
(setvar "dimtih" 1)
(setvar "dimtoh" 1)
(setvar "dimtxt" 0.125)
(setvar "dimtzin" 4)
(setvar "dimunit" 2)
(setvar "dimzin" 4)
(setvar "dragmode" 2)
(setvar "donutid" 0.0)
(setvar "donutod" 0.125)
(setvar "expert" 4)
(setvar "fillmode" 1)
(setvar "filletrad" 0.125)
(setvar "gridmode" 0)
; (setvar "gridunit" '(1.0 1.0))
(setvar "highlight" 1)
(setvar "insbase" '(0.0 0.0 0.0))
(setvar "limcheck" 0)
(setvar "lunits" 2)
(setvar "luprec" 8)
(setvar "menuecho" 1)
(setvar "measureinit" 0)
(setvar "measurement" 0)
(setvar "mirrtext" 0)
(setvar "orthomode" 1)
(setvar "qtextmode" 0)
(setvar "regenmode" 1)
(setvar "sketchinc" 0.1000)
(setvar "snapbase" '(0 0))
(setvar "snapmode" 0)
(setvar "snapstyl" 0)
(setvar "snapunit" '(0.125 0.125))
(setvar "ucsicon" 0)
(setvar "unitmode" 0)
(command "._viewres" "_Y" "2000")
(command "._style" "standard" "simplex" "" "" "" "" "" "")
(setvar "cmdecho" cdeo)
(princ)
)

```


AutoCAD Default Metric Parameters (**Metric Settings**)

```
(defun setmetric ()
  (setq cdeo (getvar "CMDECHO"))
  (setvar "cmdecho" 0)
  (setvar "aunits" 1)
  (setvar "auprec" 2)
  (setvar "blipmode" 0)
  (setvar "cecolor" "bylayer")
  (setvar "celtype" "bylayer")
  (setvar "chamfera" 3.000)
  (setvar "chamferb" 3.000)
  (setvar "cmlscale" 12.5)
  (setvar "coords" 1)
  (setvar "dimalt" 0)
  (setvar "dimaltd" 2)
  (setq altf (/ 1.0 25.4))
  (setvar "dimaltf" altf)
  (setvar "dimaso" 1)
  ;;; 2002 vars
  ;;; (setvar "dimassoc" 1)
  ;;; (setvar "dimlwd" -1)
  ;;; (setvar "dimlwe" -1)
  ;;; 2002 vars
  (setvar "dimasz" 3.000)
  (setvar "dimcen" 1.500)
  (setvar "dimclrd" 256)
  (setvar "dimclre" 256)
  (setvar "dimclrt" 256)
  (setvar "dimdli" 6.000)
  (setvar "dimexe" 2.000)
  (setvar "dimexo" 1.500)
  (setvar "dimgap" 1.500)
  (setvar "dimlfac" 1.000)
  (setvar "dimrnd" 0.0000)
  (setvar "dimsho" 1)
  (setvar "dimtad" 0)
  (setvar "dimtih" 1)
  (setvar "dimtoh" 1)
  (setvar "dimtxt" 3.000)
  (setvar "dimtzin" 0)
  (setvar "dimunit" 2)
  (setvar "dimzin" 0)
  (setvar "dragmode" 2)
  (setvar "donutid" 0.0)
  (setvar "donutod" 3.000)
  (setvar "expert" 4)
  (setvar "fillmode" 1)
  (setvar "filletrad" 3.000)
  (setvar "gridmode" 0)
  ; (setvar "gridunit" '(25 25))
  (setvar "highlight" 1)
  (setvar "insbase" '(0.0 0.0 0.0))
```

```

(setvar "limcheck" 0)
(setvar "lunits" 2)
(setvar "luprec" 6)
(setvar "menuecho" 1)
(setvar "measureinit" 1)
(setvar "measurement" 1)
(setvar "mirrtext" 0)
(setvar "orthomode" 1)
(setvar "qtextmode" 0)
(setvar "regenmode" 1)
(setvar "sketchinc" 1.000)
(setvar "snapbase" '(0 0))
(setvar "snapmode" 0)
(setvar "snapstyl" 0)
(setvar "snapunit" '(3.0 3.0))
(setvar "ucsicon" 0)
(setvar "unitmode" 0)
(command "._viewres" "_Y" "2000")
(command "._style" "standard" "simplex" "" "" "" "" "" "")
(setvar "cmdecho" cdeo)
(princ)
)

```