
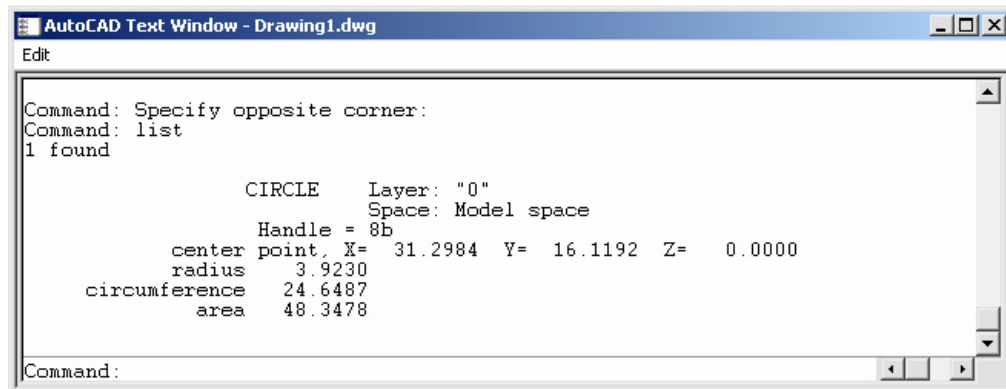

Chapter 8
Setting Up a Drawing

AutoCAD 2D Tutorial


List Command 8.1

1. **Choose** Tools, Inquiry, List.
or
2. **Click** the List icon from the Inquiry Toolbar. 
- or**
3. **Type** LIST at the command prompt.
Command: **LIST** or **LI**
4. **Pick** The object or objects to list.
Select objects: (**select**)
5. **Press** ENTER when you are finished choosing objects:

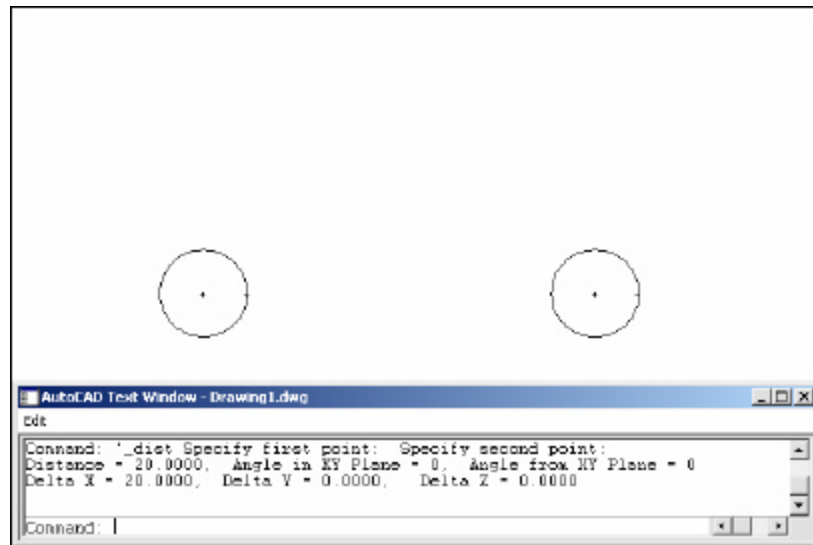


AutoCAD 2D Tutorial

Measuring Distances 8.2

1. **Choose** Tools, Inquiry, Distance.
or
2. **Click** the Distance icon from the Inquiry Toolbar. 
- or**
3. **Type** DIST at the command prompt
Command: **DIST**
4. **Pick** The first point to measure from
First point: **pick point**
5. **Pick** The second point to measure to
Second point: **pick point**

Distance Between Circle Centers




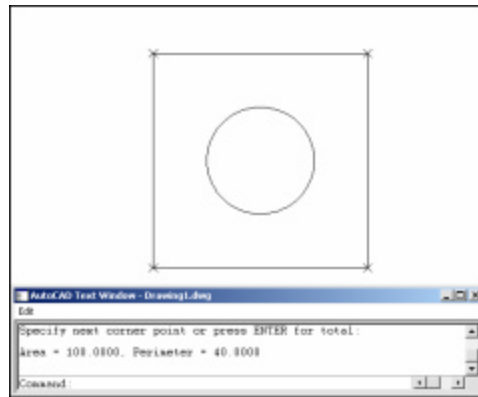
TIP:

Be sure to use Object Snaps with the MEASURE command.

AutoCAD 2D Tutorial

Calculating Areas 8.3

1. **Choose** Tools, Inquiry, Area.
or
2. **Click** the Area icon. 
or
3. **Type** AREA at the command prompt
Command: **AREA**
4. **Pick** The first point for area calculation
<First point>/Object/Add/Subtract: **pick**
5. **Pick** Next point: **pick**
6. **Pick** Next point: **pick**
7. **Press** ENTER when you are finished choosing points.
Area of Rectangle



- Object** Allows user to pick an object to calculate area (circle or polyline).
- Add** Adds separate areas for a total area calculation
- Subtract** Subtracts areas from each other.

TIPS:

Be sure to use Object Snaps with the MEASURE command

To subtract an area, you must first be in "add" mode to add the first area.

AutoCAD 2D Tutorial

Quick Calc 8.4

Performs a full range of mathematical, scientific, and geometric calculations, creates and uses variables, and converts units of measurement.

1. **Choose** Tools, Quick Calc

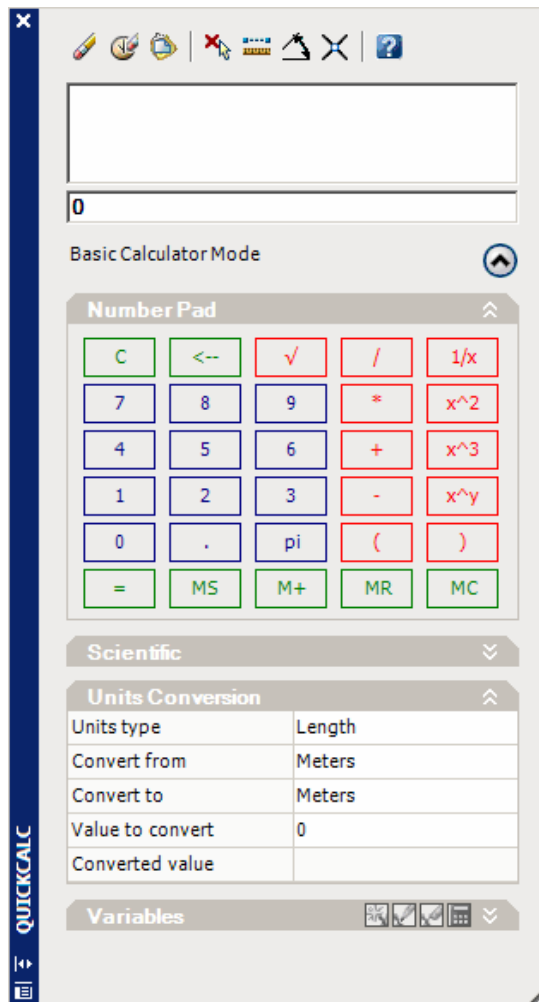
or

2. **Click** the quick calc icon from the standard toolbar.



or

3. **Press** CTRL + 8.



AutoCAD 2D Tutorial

ID Command 8.5

1. **Choose** Edit, Inquiry, Locate Point.

or

2. **Click** the Locate Point Icon from the Inquiry Toolbar.



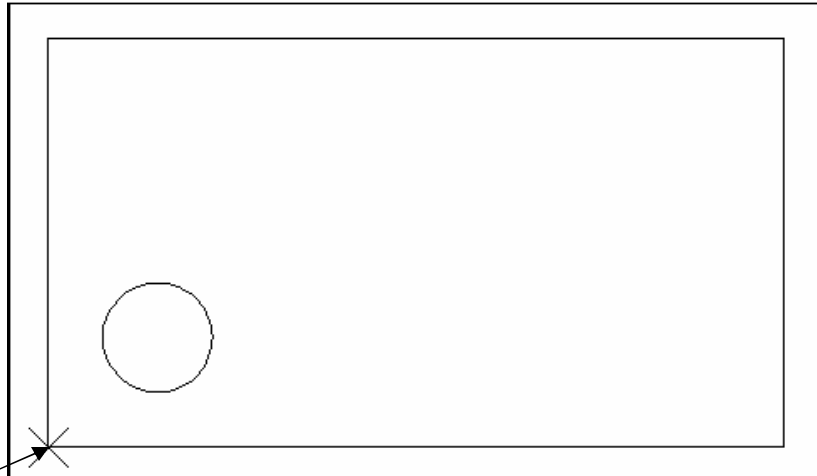
or

3. **Type** ID at the command prompt.

Command: **ID**

4. **Pick** A point to identify

Point : **pick point**



Using ID at the corner
of the box rests the
"0,0" origin for relative
coordinates

TIP:

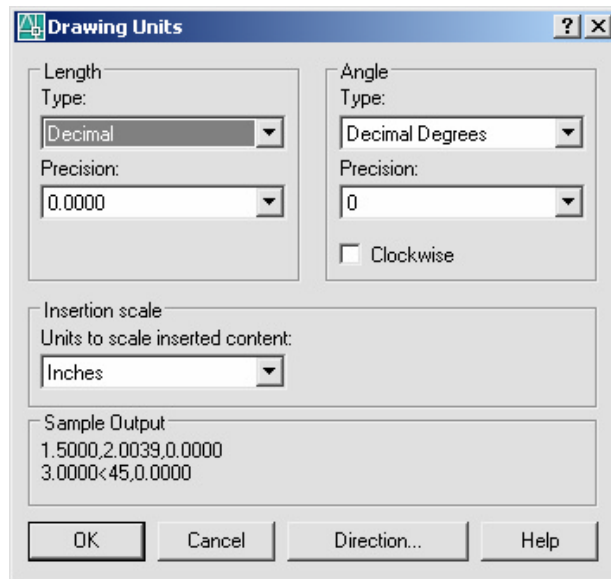
AutoCAD returns the X,Y, and Z coordinates as well as making this the last point entered in the drawing (to move relative from)

Be sure to use Object Snaps with the ID command.

AutoCAD 2D Tutorial

UNITS Command 8.6

1. **Choose** Format, Units...
or
2. **Type** DDUNITS at the command prompt.
Command: **DDUNITS** or **UN**
3. **Choose** a units and angle setting.
4. **Choose** a precision setting.



AutoCAD 2D Tutorial

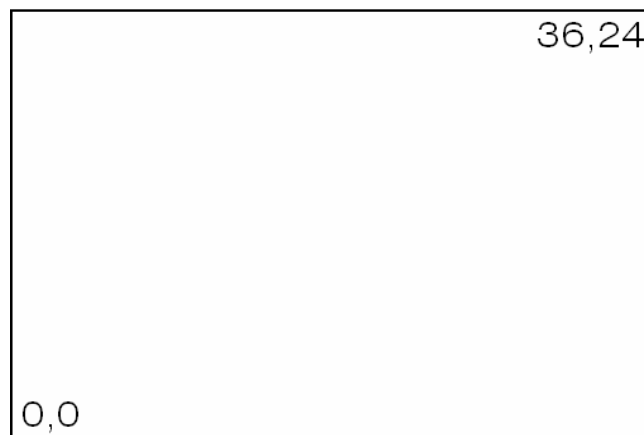
Drawing Limits 8.7

The drawing limits are two-dimensional points in the World Coordinate System that represent a lower-left limit and an upper-right limit.

The drawing limits also govern the portion of the drawing covered by the visible grid and determine the minimum area a ZOOM All displays.

1. **Choose** Format, Drawing Limits.
or
2. **Type** LIMITS at the command prompt
Command: **LIMITS**
3. **Type** One of the following options
On/Off/Lower left corner <.000,0.000>: **0,0**
4. **Type** One of the following options for the
upper right limit:
Upper right corner <5.0000,2.0000>:**36,24**

Drawing with lower left limit of 0,0 and upper right limit of 36,24



TIPS:

You can also pick points to define the limits.

The limcheck variable controls whether or not you can draw outside the limits that are set. A setting of 0 (off) indicates that you can draw outside the limits and a setting of 1(on) indicates that you cannot.

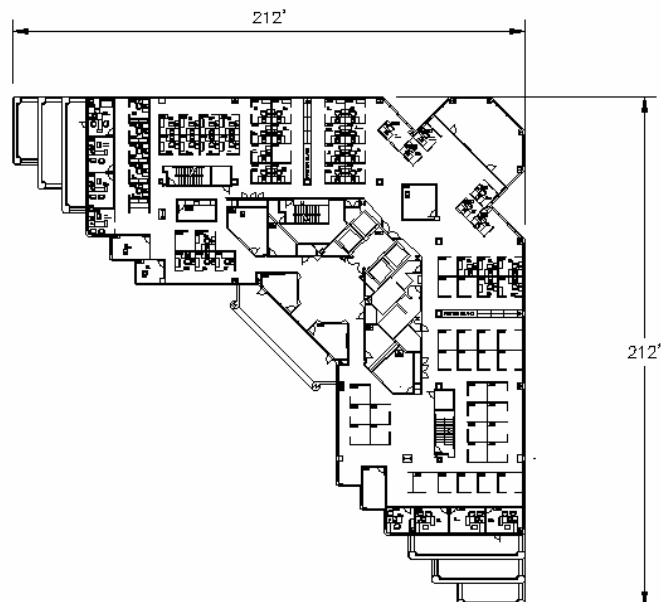
AutoCAD 2D Tutorial

Plot Scales and Paper Sizes 8.8

The following is an example of setting up an AutoCAD drawing for a D size sheet of paper (36 x24) with a scale of 1/16=1').

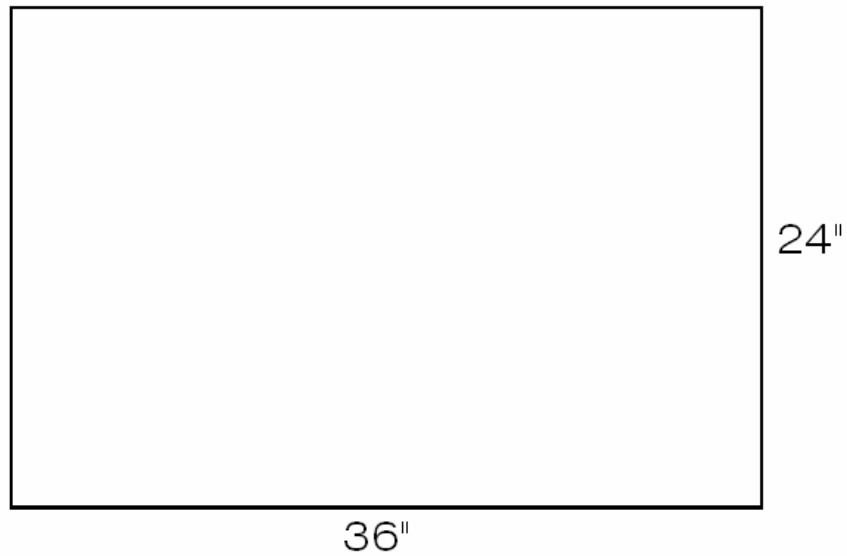
1. **Size** the object you're drawing.
2. **Border Size** 36 x 24 plotted, 576' x 384' drawn.
For some plotters, deduct a 1/2 margin on top, bottom, and left, and a 1 margin on the right.
3. **Limits** Lower left limit 0,0.
Upper right limit 576', 384'.
4. **Text Height** for 1/8 notes, multiply by 192 which is the reciprocal of the plot scale.
1/8 plotted, 24" drawn.
5. **Hatch Scale** for patterns other than architectural.
Hatch Scale = 192
6. **Dimension Scale** Dimscale = 192
7. **Ltscale** Lt scale = 96

Determine your object size

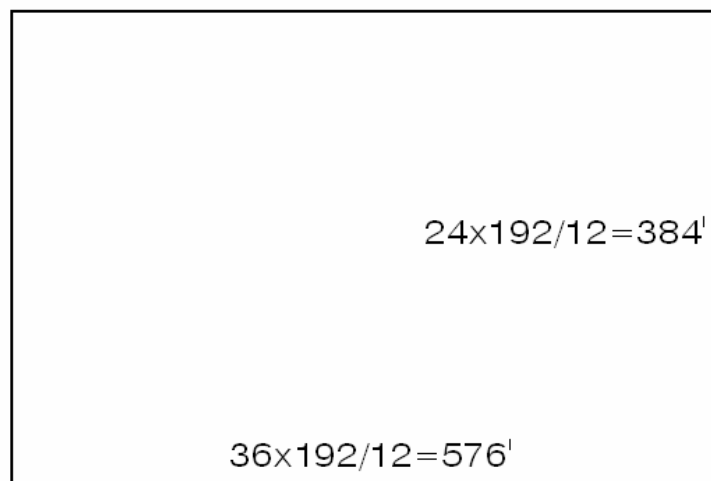


AutoCAD 2D Tutorial

Decide Border (Paper) Size

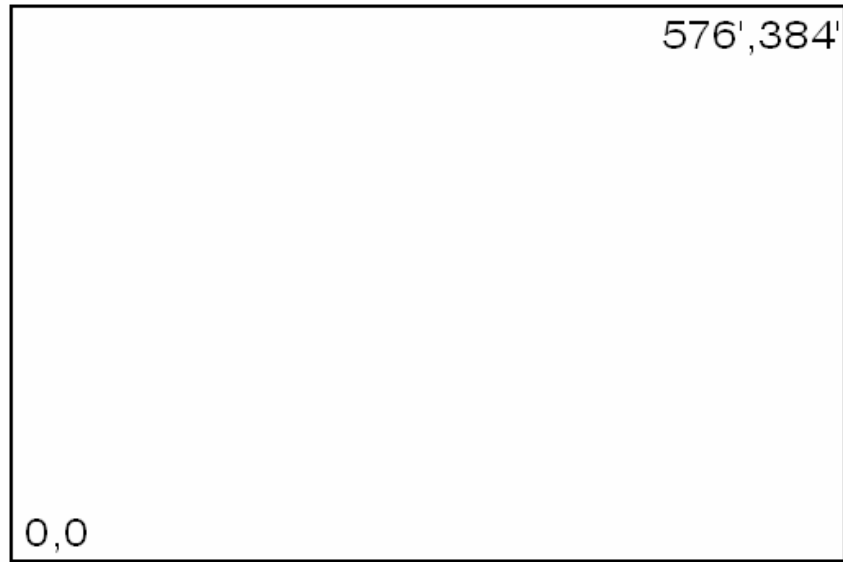


Decide the Scale Factor for Object which is at least 212', 212'. To do this, multiply the scale factor x paper size. (i.e.: 1/16"=1'-0' has scale factor 192)

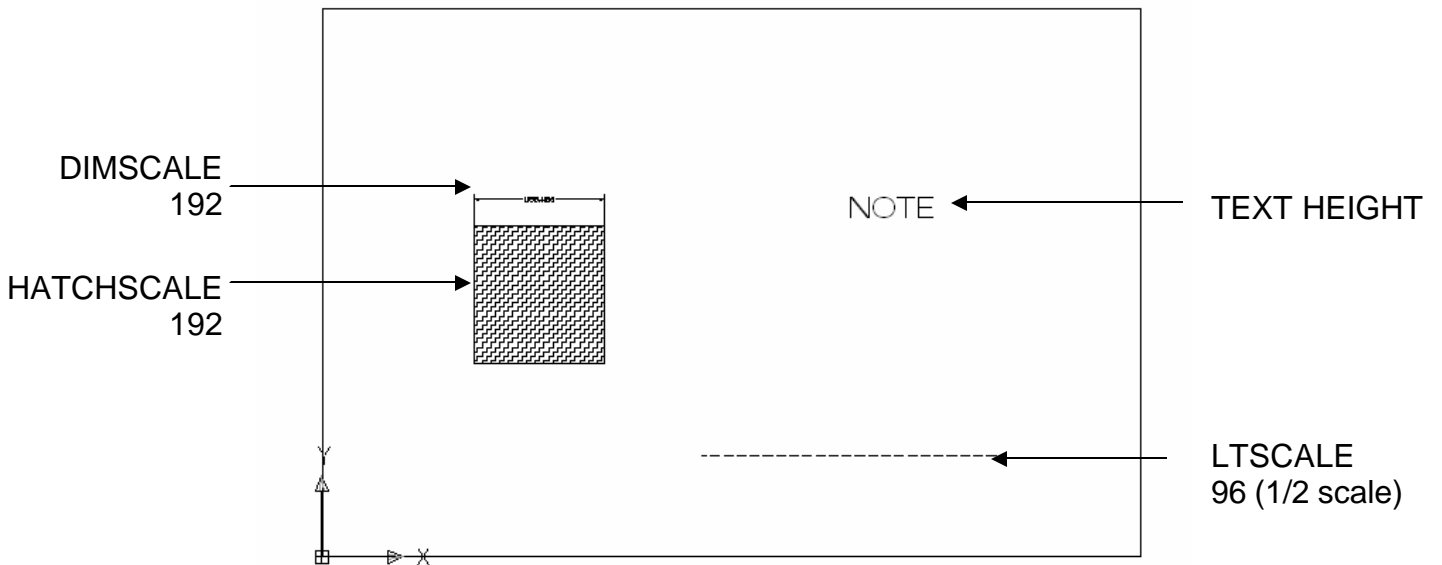


AutoCAD 2D Tutorial

Set Drawing Limits



Determine Dim Scale, Hatch Scale, Lt scale, and Text Height



AutoCAD 2D Tutorial

8.9 Scalelistedit Command

Controls the list of scales available for layout viewports, page layouts, and plotting.

1. **Choose** scalelistedit from the Format menu.

or
2. **Type** scalelistedit at the command prompt.

