



# **AutoCAD Level 2**

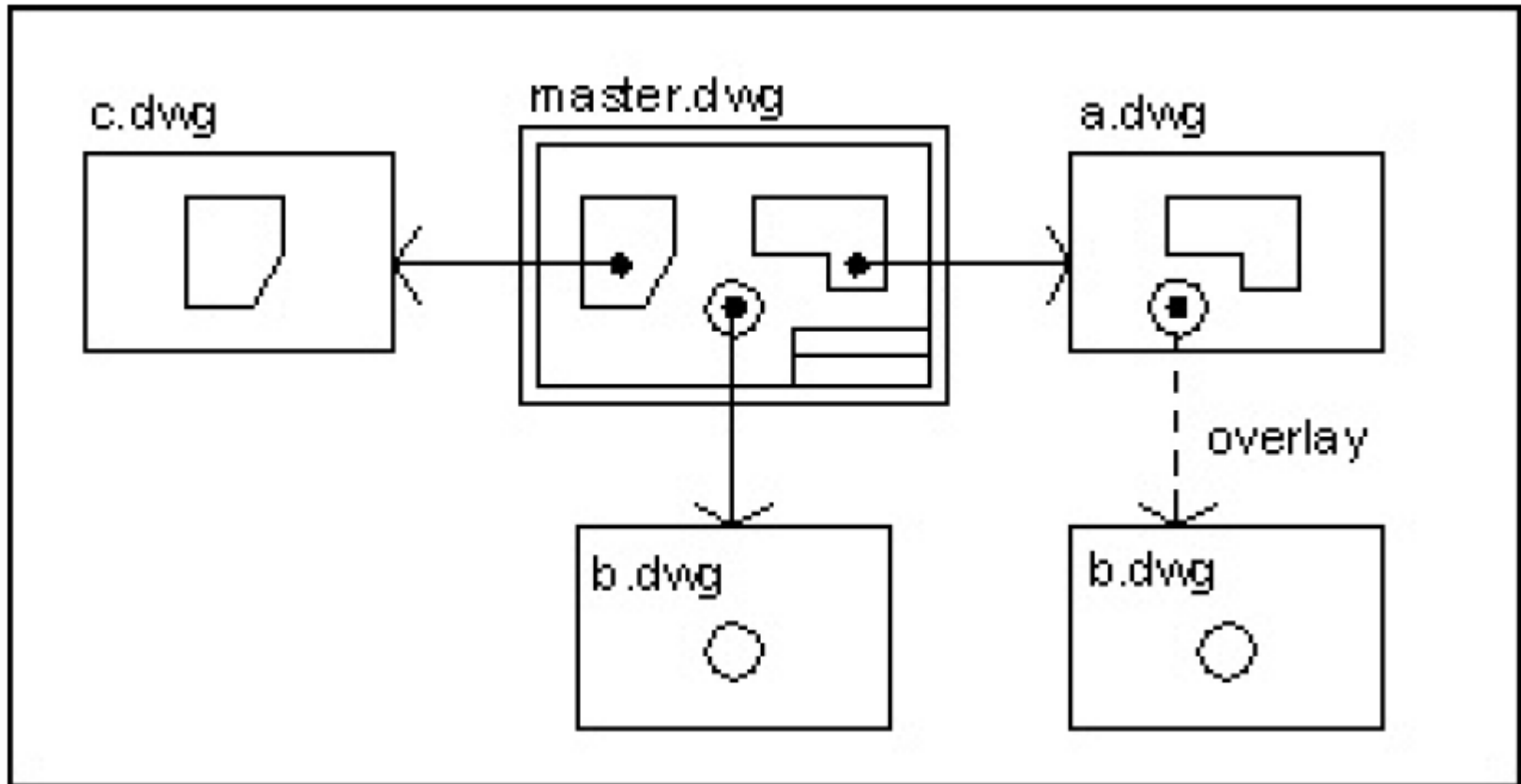
## **Session 06**

# AGENDA

- External References (xref)
  - AutoCAD Files
  - Images
  - Excel Files (review)
- Etransmit

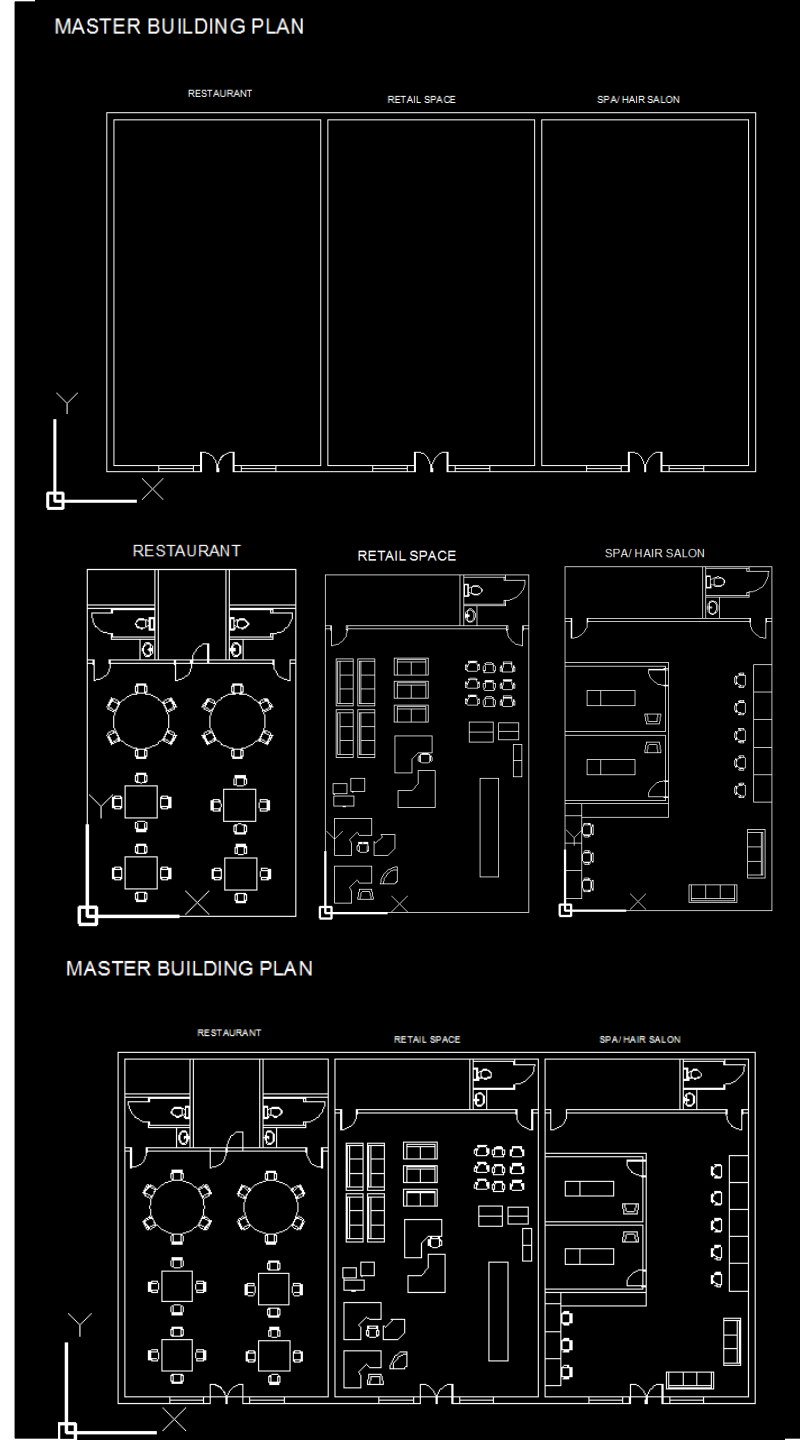
# Xref

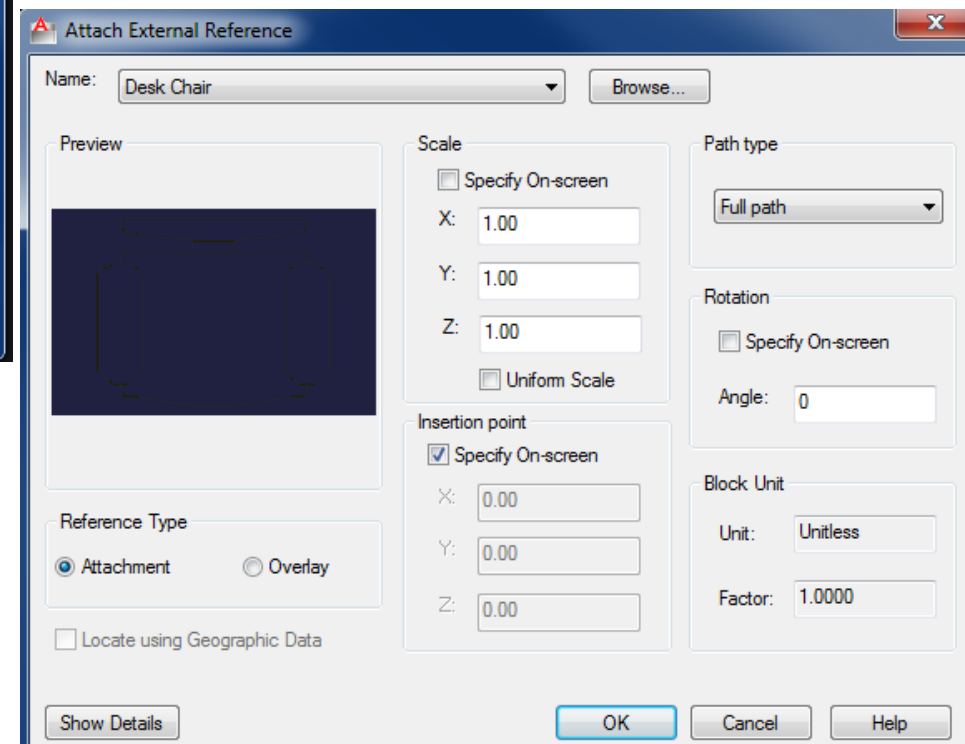
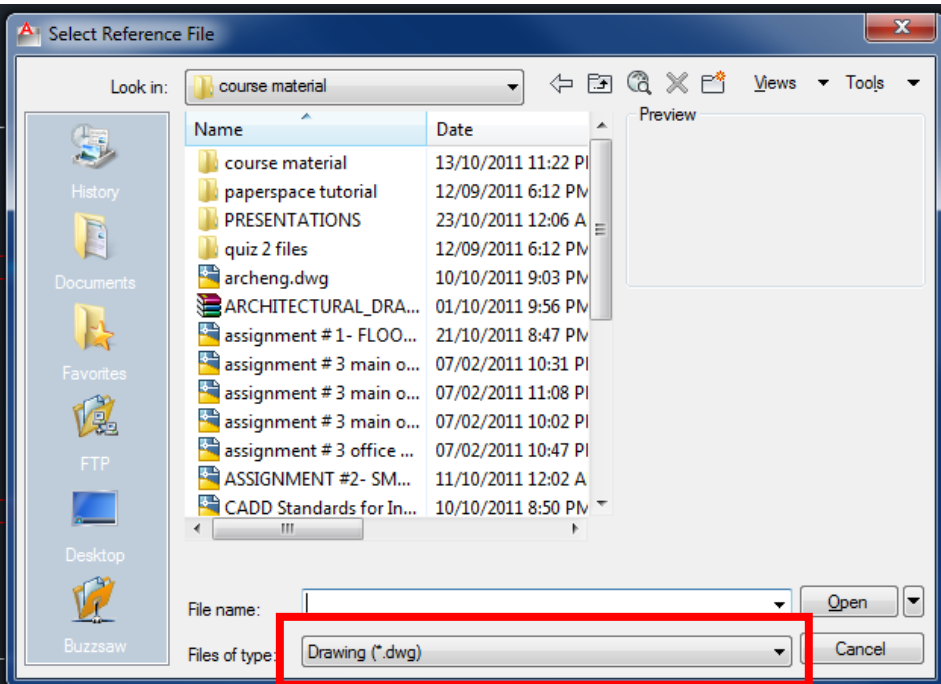
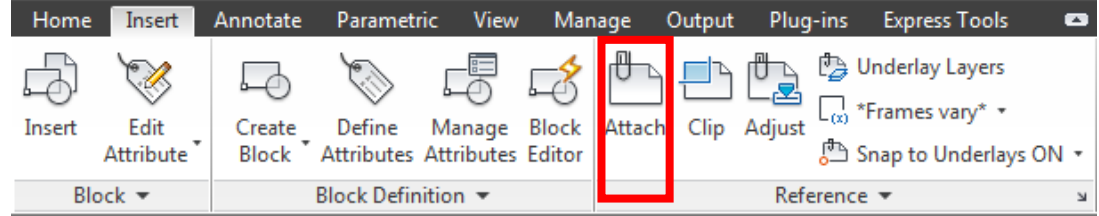
- An X-ref is an 'external reference'. One file can reference many other files and display them as if they were one. These are used in larger projects for many reasons:
- They keep the file sizes down.
- They allow many users to work on individual components of a project.
- Every time an X-ref is loaded, it is the most recent version of the drawing.
- X-ref's can be updated, added, or unattached from the main drawing at any time.
- The command is very similar to inserting a block into a drawing.



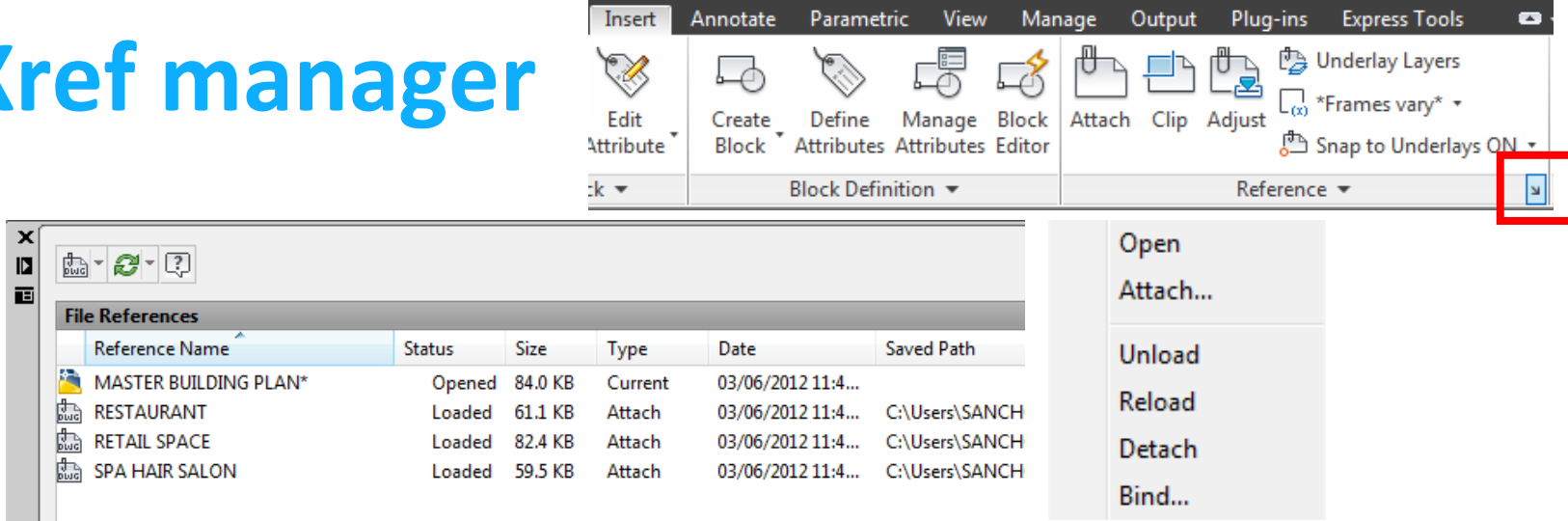
# Exercise 11

- Open the file entitled “ Master building Plan. Dwg”
- Attach all three files into Master building plan:
- 1) Restaurant
- 2) Retail Space
- 3) Spa/ hair salon
- Save the “ Master building Plan. Dwg” file
- Open the xref files and make changes to them.
- Reload all the files in the Master file.





# Xref manager



## Attach

Displays the External Reference dialog box, if a DWG reference is selected, or the Select Reference File dialog box, if no DWG reference is selected. See [XATTACH](#).

If you reference a drawing that contains an attached xref, the attached xref appears in the current drawing. Like blocks, attached xrefs can be nested. If another person is currently editing the xref file, the most recently saved version is attached.

## Unload

Unloads the selected DWG references.

Enter xref name(s) to unload:

A marker is left in place of the xref so that it can be reloaded later.

## Reload

Reloads one or more DWG references. This option reloads and displays the most recently saved version of that drawing.

Enter xref name(s) to reload:

If the program encounters an error while reloading, it ends XREF and undoes the entire reloading sequence.

## Bind

Converts a specified DWG reference into a block, making it a permanent part of the drawing.

Enter xref name(s) to bind: Enter a name or a list of names separated by commas

The xref-dependent named objects, such as layer names, of the former xref are added to your drawing. In each xref-dependent named object, the vertical bar (|) is replaced with three new characters: a number (usually 0) between two dollar signs (\$). The number is increased if the same name already exists in the current drawing.

## Detach

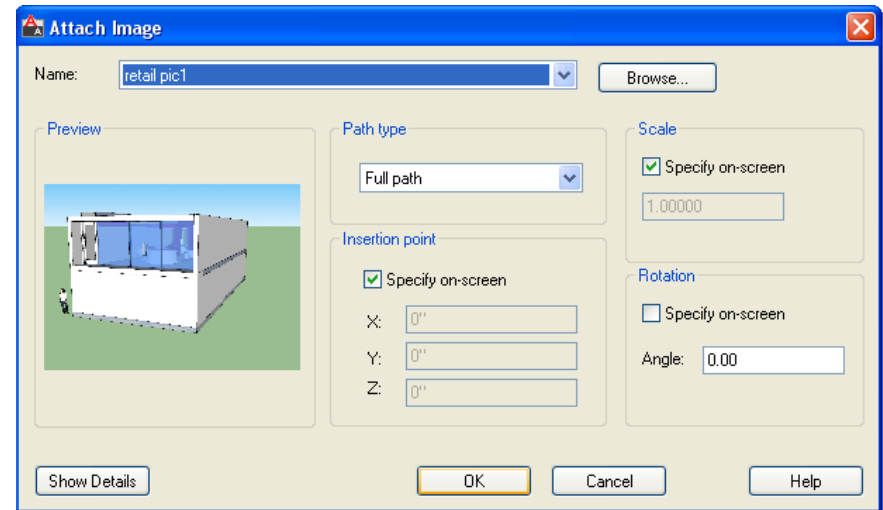
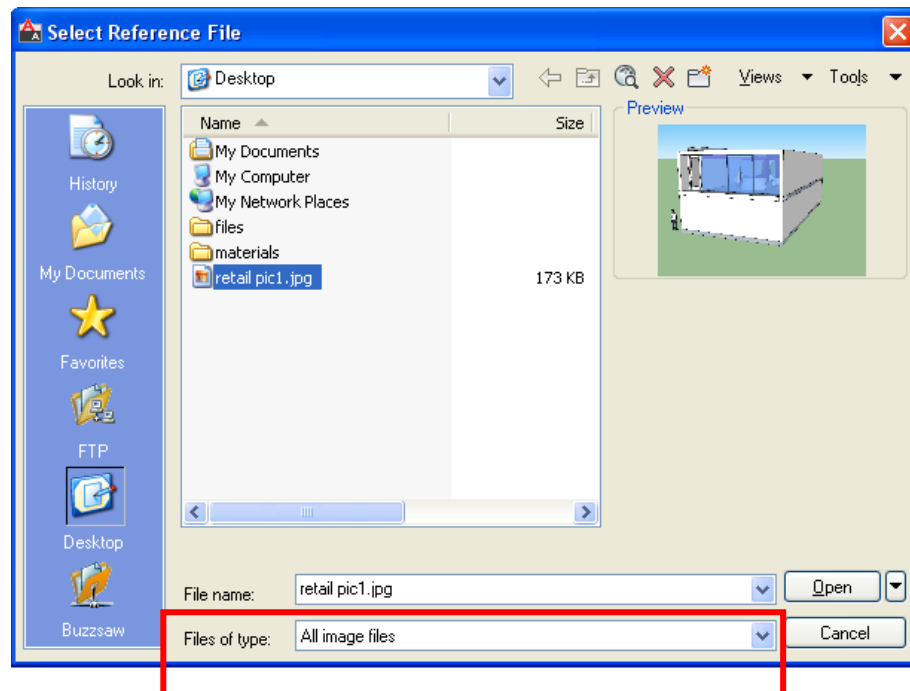
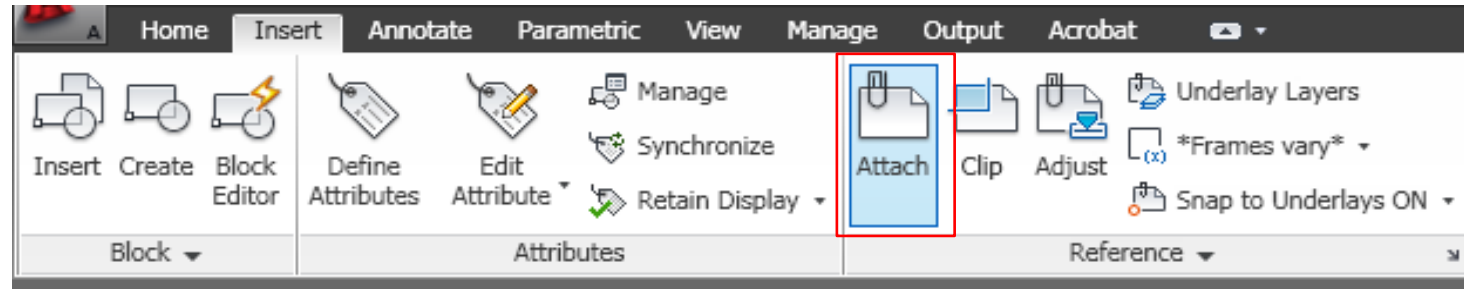
Detaches one or more DWG references from your drawing, erasing all instances of a specified xref and marking the xref definition for deletion from the definition table. Only the xrefs attached or overlaid directly to the current drawing can be detached; nested xrefs cannot be detached.

Enter xref name(s) to detach:

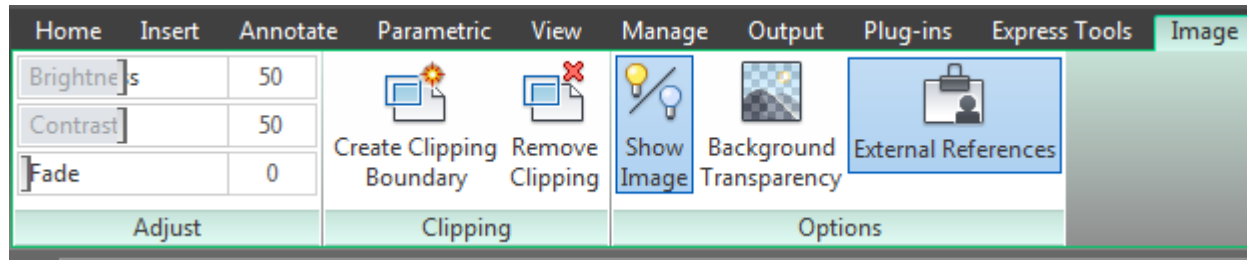
An xref referenced by another xref or block cannot be detached.

# Inserting images

- Inserting a raster image acts in the same fashion as an external file. It is not part of the file.
- It is loaded into the file, every time the file is opened.



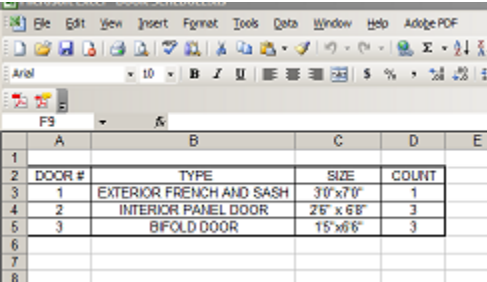
# Controlling images



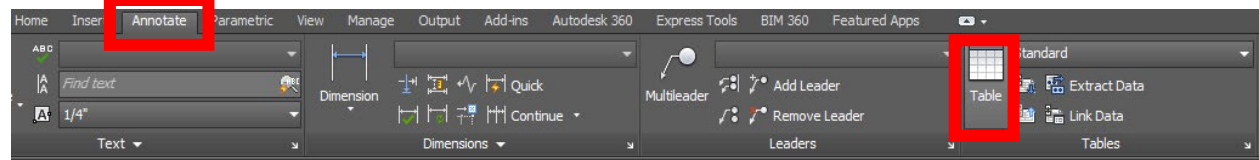
- You can use the various Adjust and Clipping tools to revise the image.



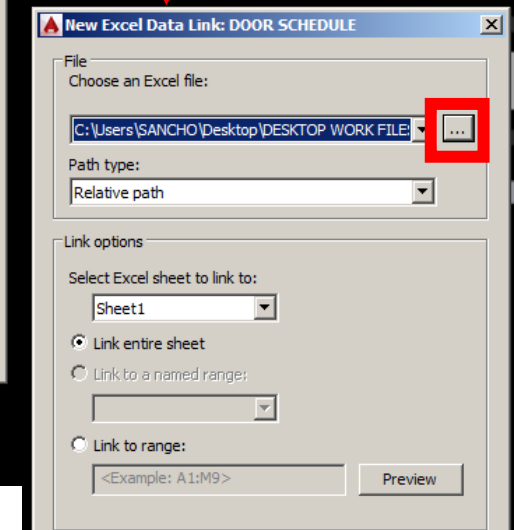
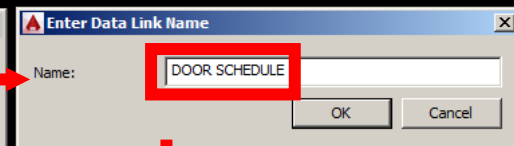
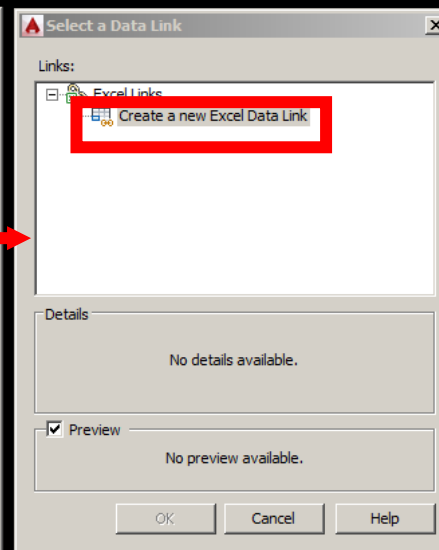
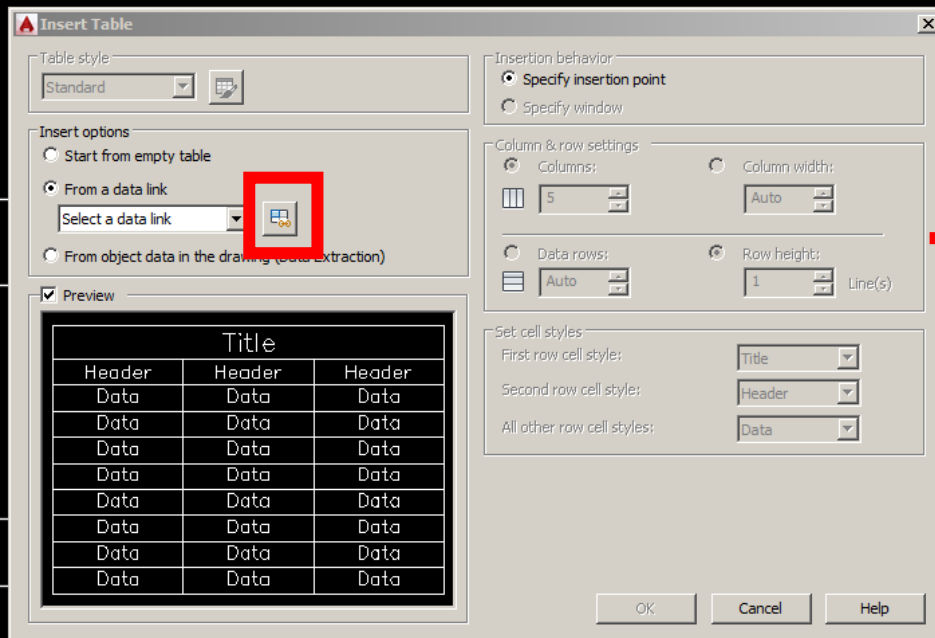
# Link Data



DOOR #	TYPE	SIZE	COUNT
1	EXTERIOR FRENCH AND SASH	3'0"x7'0"	1
2	INTERIOR PANEL DOOR	2'6" x 6'8"	3
3	BIFOLD DOOR	1'5"x6'6"	3



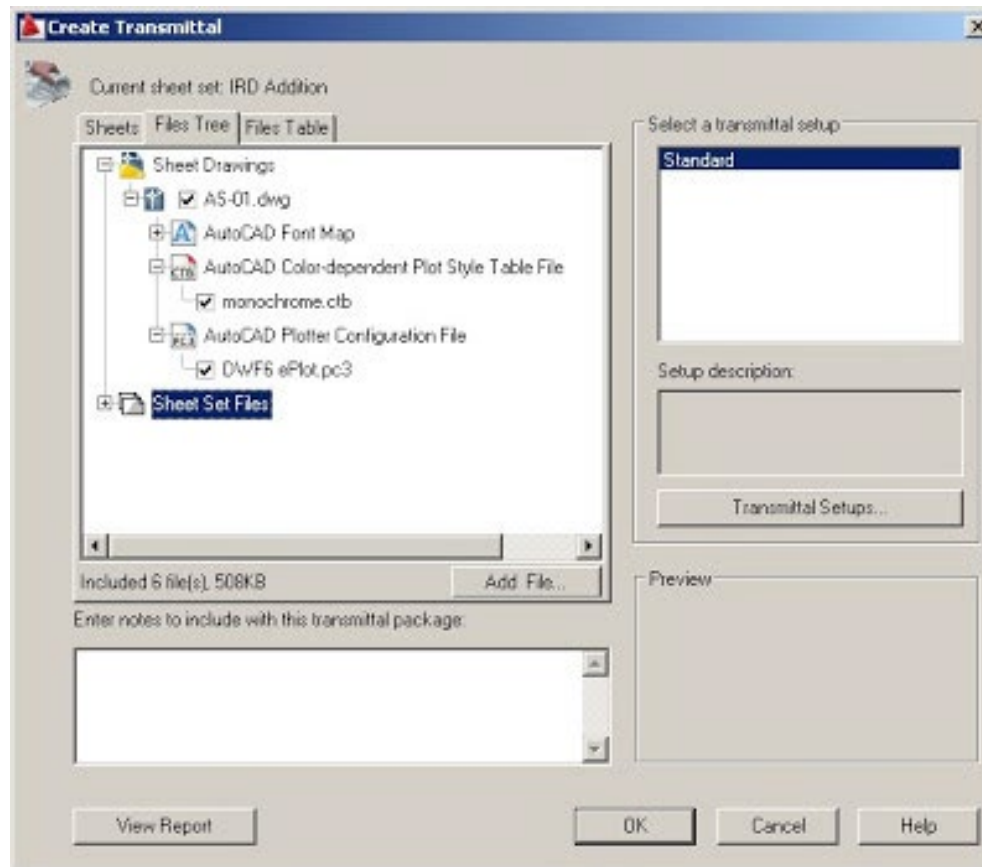
- You can use an existing excel file to create a schedule.
- A link to the excel file is created so if you change the excel file info, the table in autocad will change.



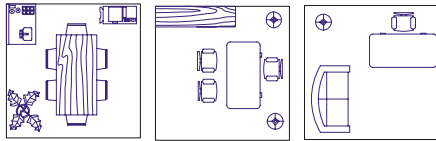
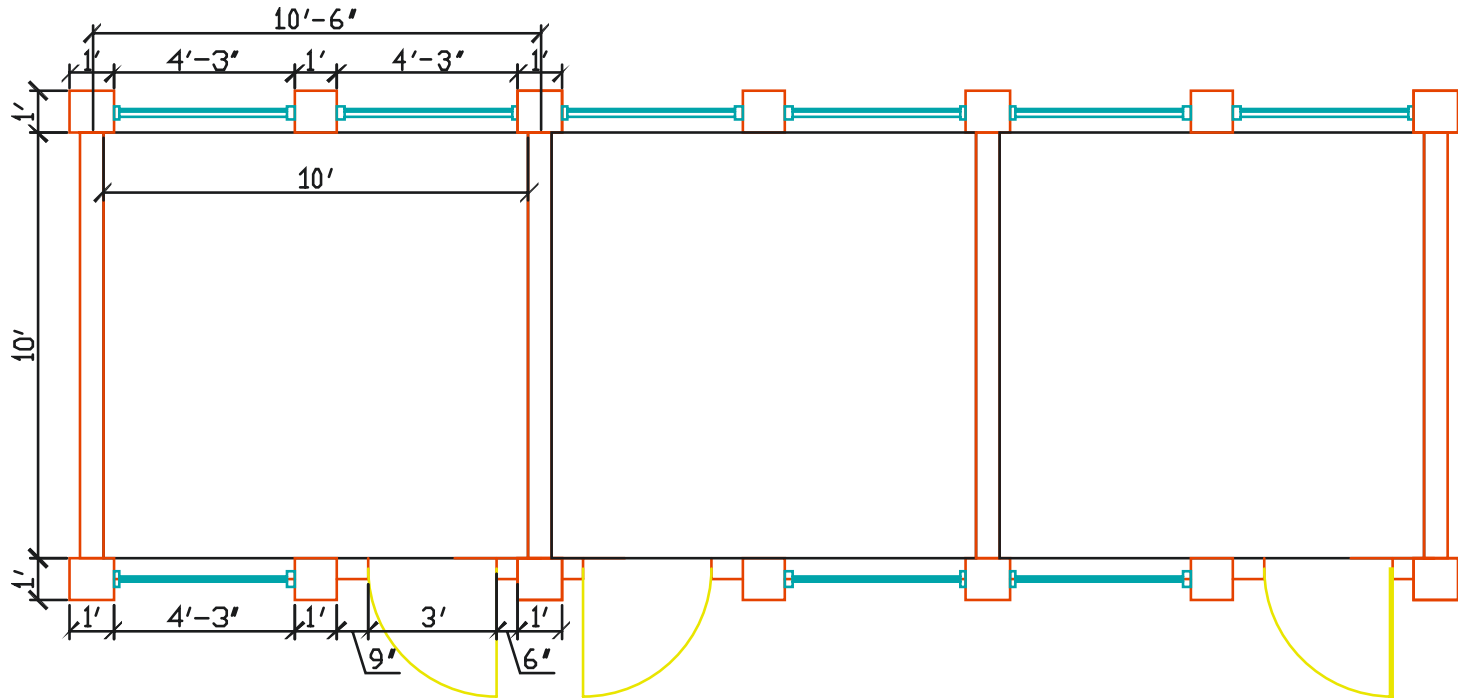
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# Saving Xref files using etransmit

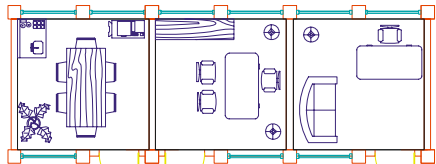
- etransmit will pack your related files into a transmittal package. Includes your reference files, plot style table, reorganize your reference path, material textures, data link files, etc.
- You can open etransmit by accessing AutoCAD menu: **File>Publish>etransmit**.



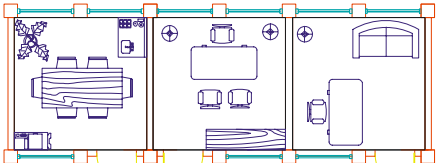
# Exercise 12



Office1.dwg    Office2.dwg    Office3.dwg



Main Office1.pdf



Main Office2.pdf