REVIT MATERIALS

Tutorial 3

- Organizing and documenting materials is an important task for the interior design professional.
- This involves developing material collections/ systems for spaces, understanding products being specified (and material options available for them), building code constraints, (flame spread ratings), cost, availability, etc.
- Revit allows much of this to be managed in the BIM database.
- We will cover the basics and apply it to our Law Office project.

In Revit, a material is a "container" which helps keep track of:

- Identity
 - Descriptive information
 - Product information
 - Annotation information
- Graphics asset
 - Shading
 - Surface pattern and color
 - Cut pattern and color
- Appearance asset
 - Photo-realistic render appearance
 - Texture
 - Reflectivity
 - Transparency
 - Self-illumination, etc.

Physical asset

- Structural engineering data
 - Concrete
 - Steel
 - Aluminum
 - Wood

Thermal asset

- Energy Modeling data
 - Thermal conductivity
 - Specific heat
 - Etc.

- In Revit, a single item called a Material holds all of this information.
- There are three primary ways a material is used, or applied, in a model: by category, by element, by face.

BY CATEGORY

When a 3D element does not have a specific Material applied, the project-wide is Object Style is used.

• Manage \rightarrow settings \rightarrow object styles

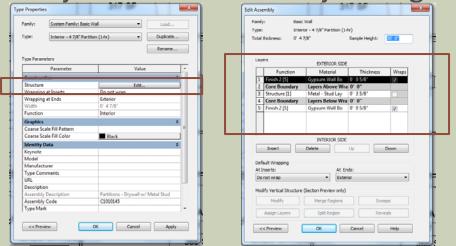
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BY CATEGORY

- On the schedule we just saw, notice the various categories listed: furniture, casework, doors, etc.
- These are hard wired categories Revit uses to organize elements, control visibility and how elements look. Each category may be assigned a default Material.
- When a 3D element has its Material parameter set to <By Category> the Object Style Material is used.

- The most common way a Material is applied to something is By Element. This is true for systems families and Loadable Families.
- Systems families: walls, ceiling floors. These elements cannot exist outside of a project, therefore the Material adjustment option is built into the dialog box which is used to develop the assembly. The Edit Assembly dialog box is shown below.



- Loadable families: furniture, casework, specialty equipment, doors, etc.
- These are families which are developed in the Family Editor environment. Every 3D element is a Family has a Material parameter. When the item is first created, the Material parameter is set to By Category. This parameter is usually changed in one of two ways: picking a material, mapping to a material parameter.

The Edit Assembly dialog highlights how the material selection is built into the workflow for developing an assembly (system family), a wall in this case.

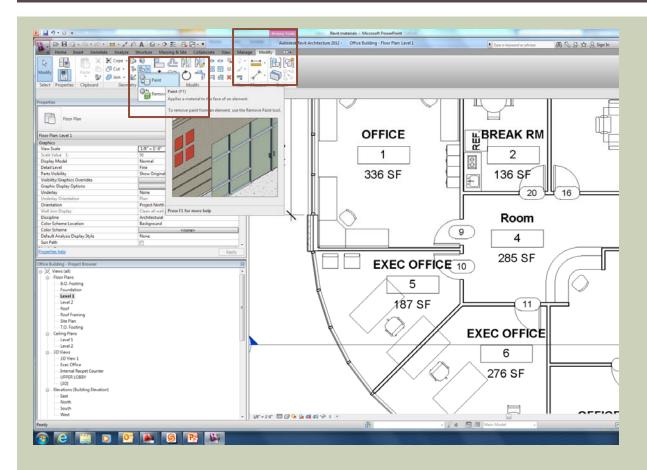
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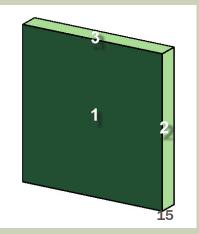
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- Notice the two Material Parameters: Seat/Back Material and Tablet Material.
- These can both be changed to another Material by clicking on the Value field and selecting the small button that appears to the right. This opens the Material Dialog, from which another Material can be selected or created.
- By changing a Type Parameter, every chair of this type within the project will be instantly updated.
- Sometimes you cannot change, for example, the chair legs or back support; they can only be changed in the Family Editor.

- The third way in which a Material is typically applied is by using the Paint tool, which adds a material to a single face. This can have some limitations.
- The Paint tool is used on Systems Families, such as walls, floors, ceilings, etc.
- The Paint tool is selected on the modify tab, a material is selected from a dialog that appears, and then individual faces are selected.

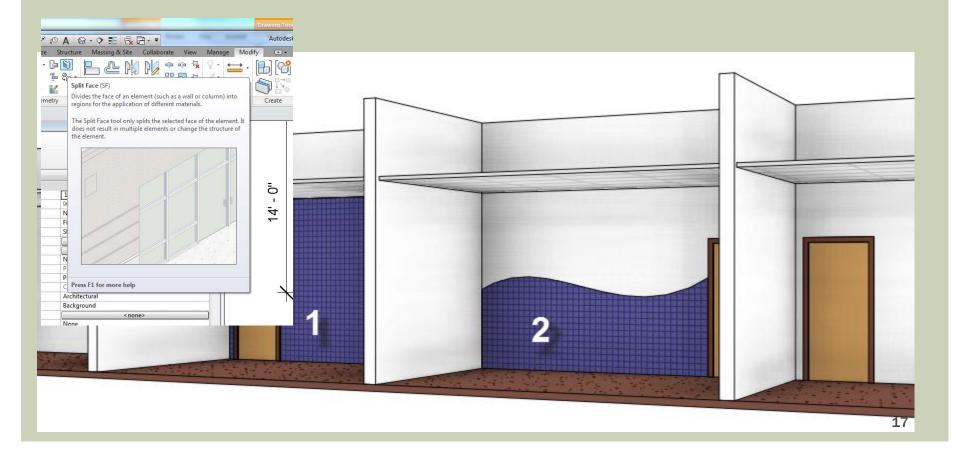


The image below shows a wall with three of the six faces visible from this vantage point. You can only change the surface material of these three faces. You would need to change the view of the wall to override the other faces.

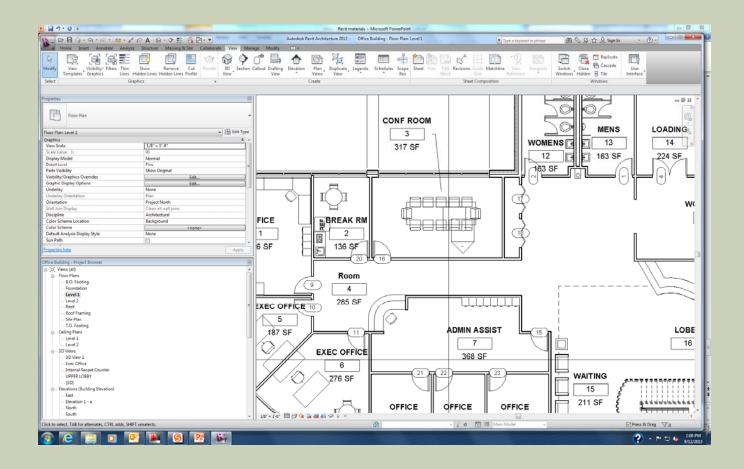


- When a surface is painted, Revit paints the entire face, not just the portion visible in the current view.
- For example, an interior elevation might be of a wall common to a corridor, or hallway. Revit will paint the entire side of the corridor wall, not just the portion visible in the specific room you are in.

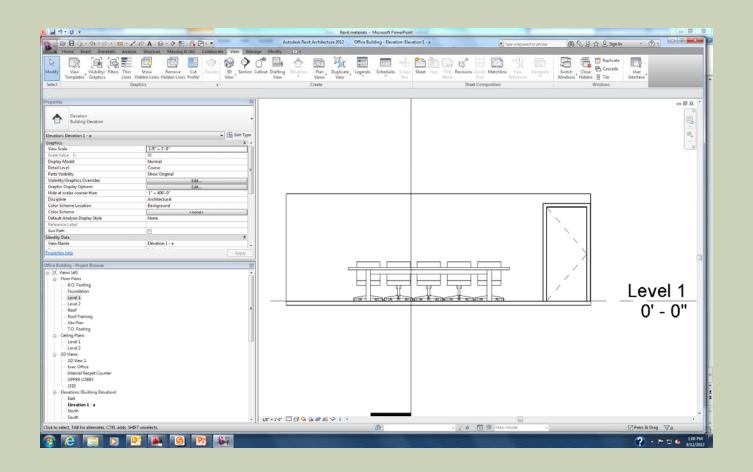
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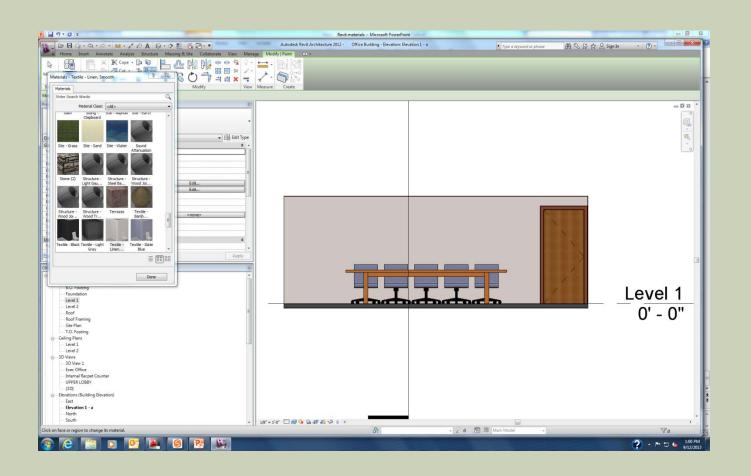
PLACE ELEVATION IN CONFERENCE ROOM



ELEVATION OF WALL BELOW



REALISTIC VIEW, PAINT WALL A NEUTRAL MATERIAL



ELEVATION OF WALL BELOW: NOW CLICK SPLIT FACES, NEXT TO PAINT

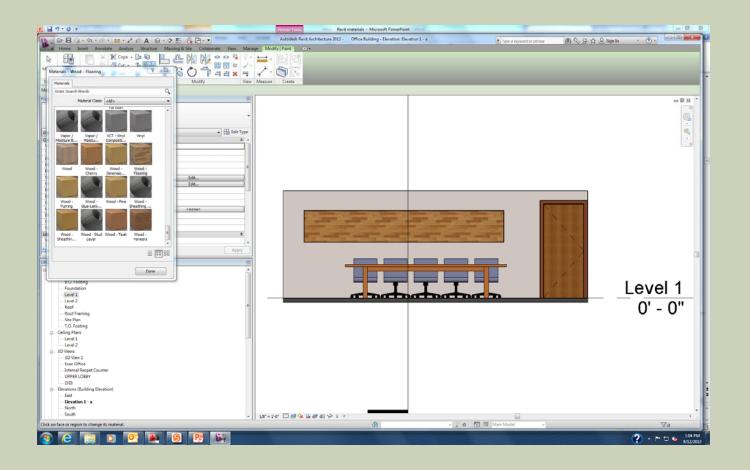
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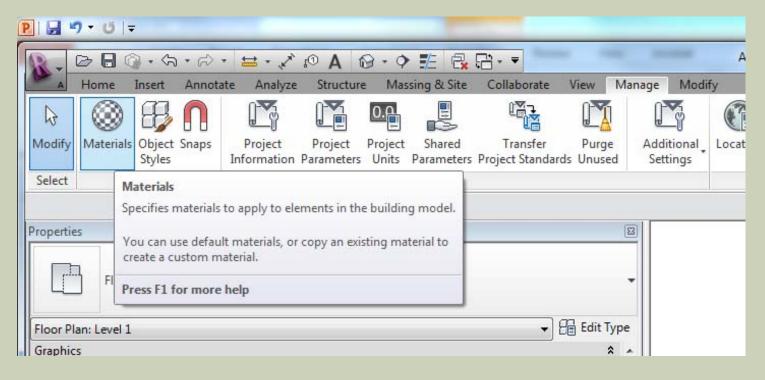
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PAINT SECOND AREA WITH A DIFFERENT MATERIAL, NOTICE RESULT

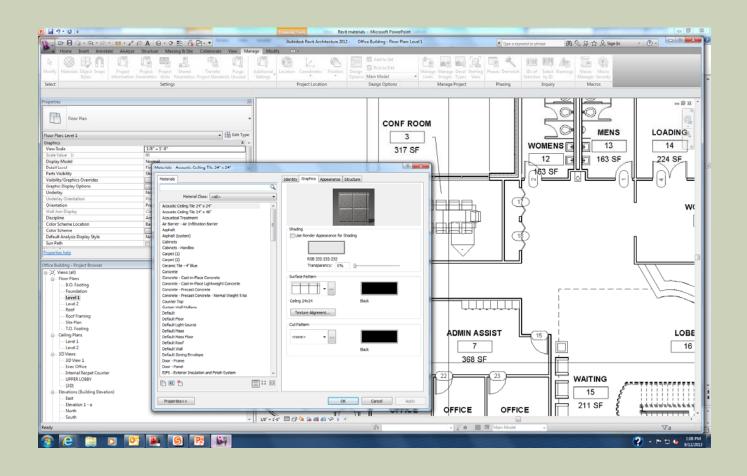


A DETAILED LOOK AT REVIT MATERIALS

To explore the Materials in a project, most of which comes from the project template, click the Materials button on the manage tab.



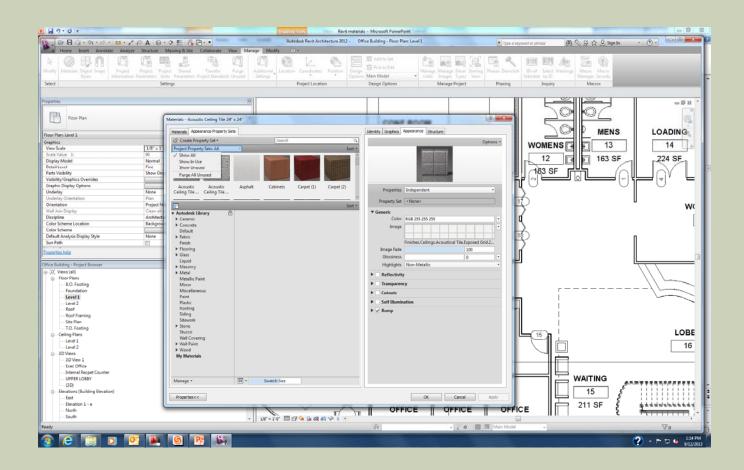
A DETAILED LOOK AT REVIT MATERIALS \rightarrow MANAGE \rightarrow MATERIALS



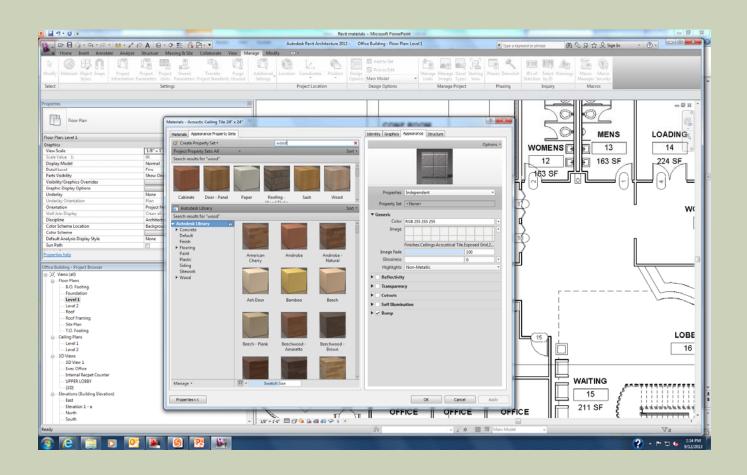
A DETAILED LOOK AT REVIT MATERIALS

- In the Materials Dialog, notice the list of Materials on the left side of the screen.
- This can be sorted in two ways: Material Usage State, Search Words.
- Selecting the drop down list allows you to narrow the list to just Materials used in the project, or not used. The default is Show All, so both used and not used appear in the list.

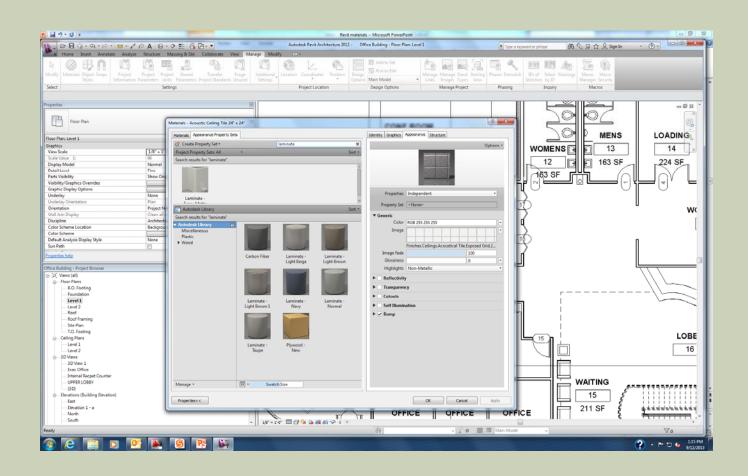
A DETAILED LOOK AT REVIT MATERIALS



A DETAILED LOOK AT REVIT MATERIALS: SEARCH FOR WOOD

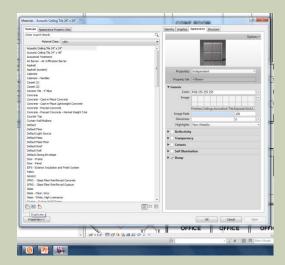


SEARCH FOR LAMINATES: NOTICE THE RESULTS



A DETAILED LOOK AT REVIT MATERIALS

When you right click on a Material name, you can Duplicate; Rename and Delete materials. Also, at the bottom, you can create a new Material or Duplicate an existing one.



- Now we will take a look at the information contained within each Material.
- This is viewed in the Material Editor dialog, and the information seen is based on which Material is selected in the Material Browser.
- If the Material Editor is not visible, click the small icon in the lower right corner of the Material Browser.

Identity: with the first material selected in the Material Browser list on the left, Acoustic Ceiling Tile 24"x24", notice the Identity options available.

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- Descriptive Info: material name and what it is used for
- Product info: who makes the material, how much does it cost, where can I find more info.
- Revit Annotation Info: it is possible to add smart text with optional arrows, which is called a Tag, in a drawing view to report info about a specific Material. If the info changes, the tag will update automatically. We will learn more about keynoting later.

GRAPHIC ASSET: ACOUSTICAL CEILING TILE 24"X24"

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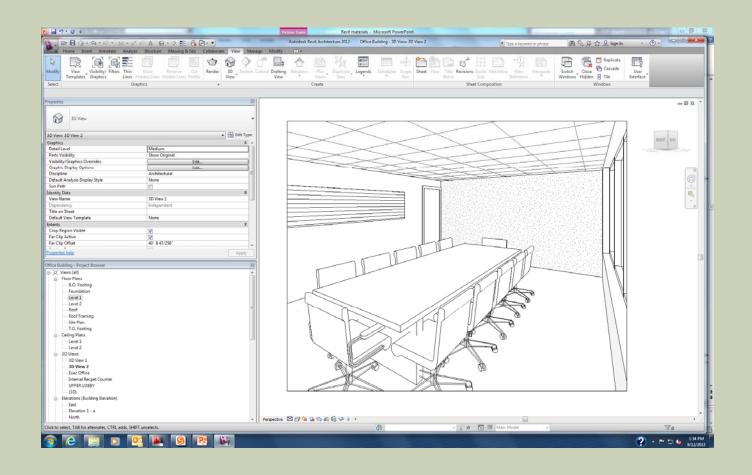
- The info. found in the Graphics panel primarily relates to how the various Materials appear on screen and how they print on paper, or in a PDF. This closely relates to the development of the CD deliverables.
- Shading: this is the solid color used on screen when the visual style is set to Shaded or Consistent Colors.
 - Transparency setting is used to make certain objects see through. This applies to all of the visual styles. The most common application of this is on glass.

- Surface Pattern and Color: when a surface pattern is selected, Revit will display this pattern on a surface in a visible view. If the ACT material is applied, you will see it on the ceiling plan and 3D views.
- Cut Pattern: when a cut pattern is selected, Revit will display that pattern within the boundary of an object, if the object is being cut in the view. A common example would be walls since a floor plan has a cut plane at 3'-6" above the level.

SURFACE PATTERN SHOW BELOW: WOOD PORTION OF WALL FROM EARLIER

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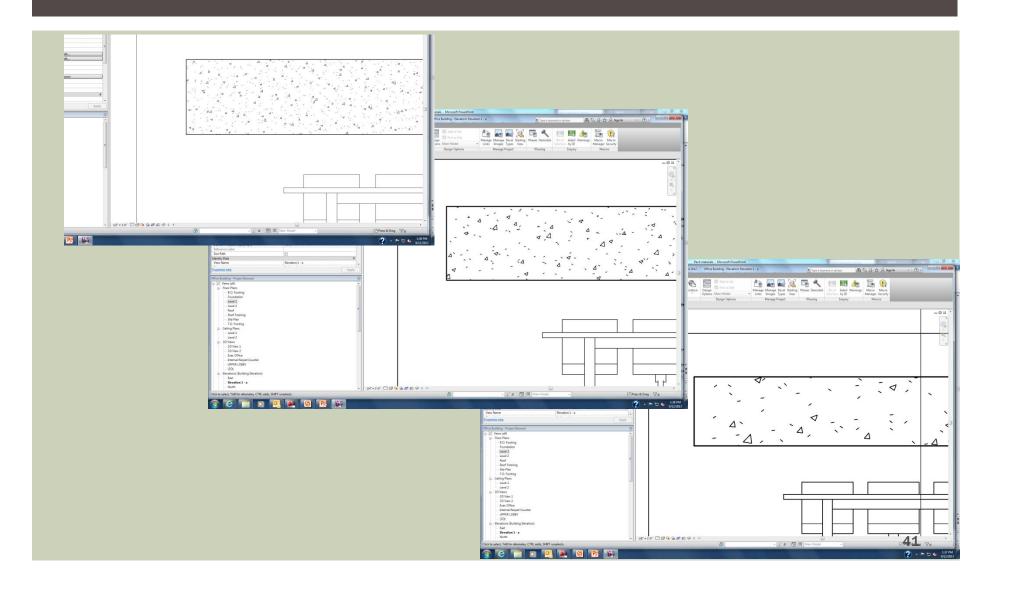
HIDDEN LINE 3D: ACT AND WOOD PORTION OF WALL



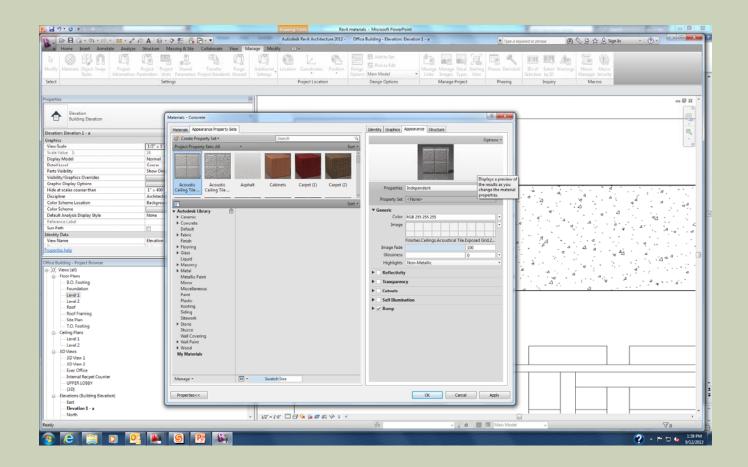
SURFACE AND CUT PATTERNS (OPTIONAL)

- Keep in mind that surface and cut patterns are optional.
- In large commercial projects it is not desirable to see a floor pattern as the drawing gets too cluttered with notes, dimensions and tags.
- Pattern scale: there are two types of fill patterns in Revit: model and drafting.
 - Model patterns typically represent actual materials such as ceiling tile, concrete block, and brick.
 - Drafting patterns symbolically represent a material. They automatically adjust size with view scale.

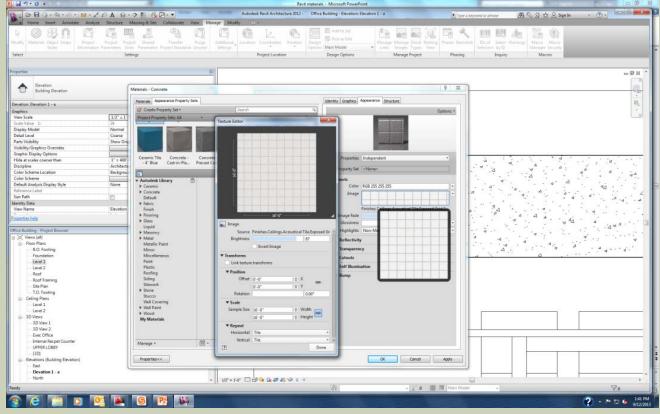
PATTERN SCALE



APPEARANCE ASSET



Double click on the image of the material and another dialog box appears. Here you can adjust how the image is applied to the surface and align it with the fill pattern.



- Physical Asset: primarily used by the structural engineer to manage the structural properties for concrete, steel, aluminum and wood.
- Thermal Asset: used in energy modeling calculations.
- Adding or Replacing Assets: all assets except graphics can be replaced with another option from the provided library.

MATERIALS LIBRARY

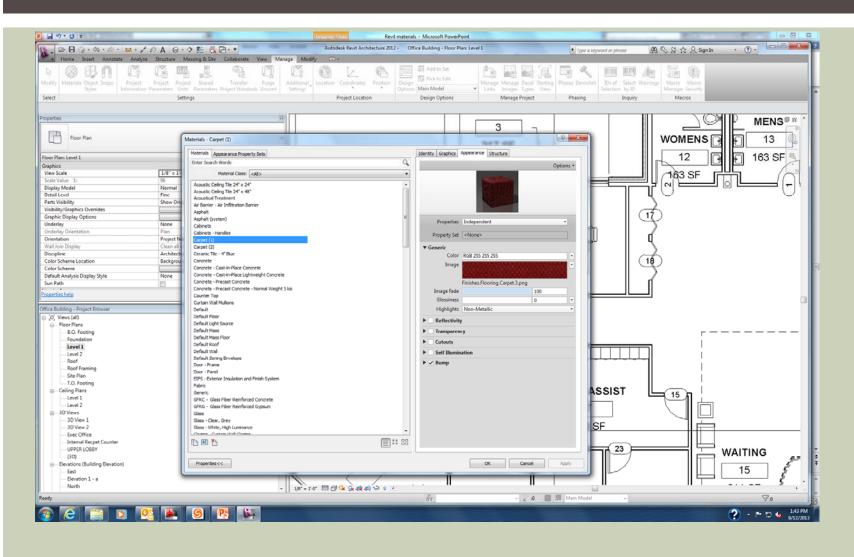
- Materials Library: if the material you want is not available in your project, in the In Document Area of the Material Browser, you can either create one or load it from the AEC Materials Library.
- If the material you want exists in the library, this is much faster than creating your own as it has all the assets, including physical and thermal preloaded.

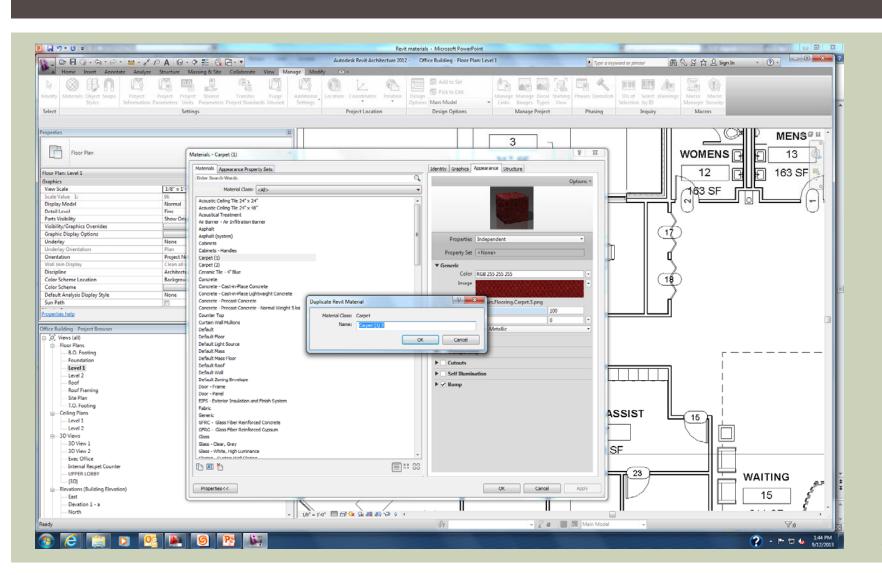
To load a material into your project from the library, simply double click on it.

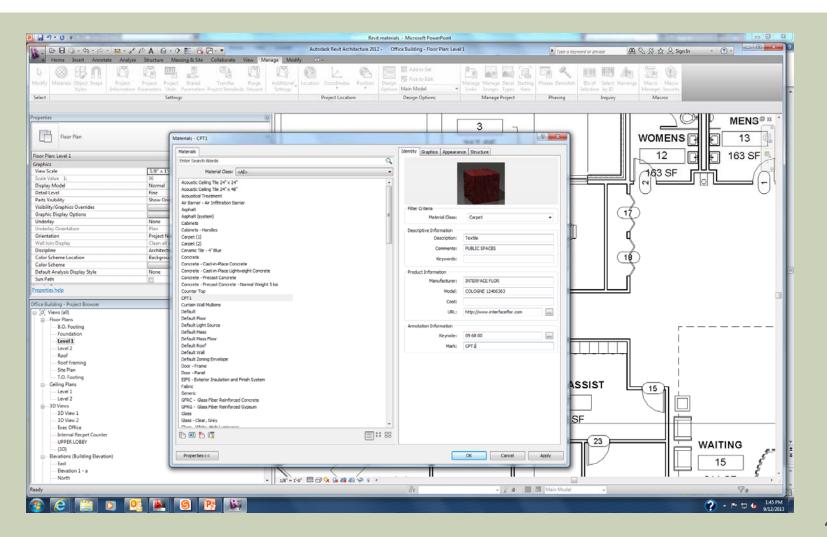
CREATING MATERIALS

- Open the law office project
- Select manage \rightarrow settings \rightarrow materials
- Next you will create a duplicate of the carpet material.
 - First select a similar material to the one you want to create
 - In the materials list we will select carpet-1
 - Right click carpet 1 then duplicate
 - A new material will be created with a name similar to the orignal
 - Right click to rename and type cpt1

REVIT MATERIALS CONCEPTS APPLIED – PART 1

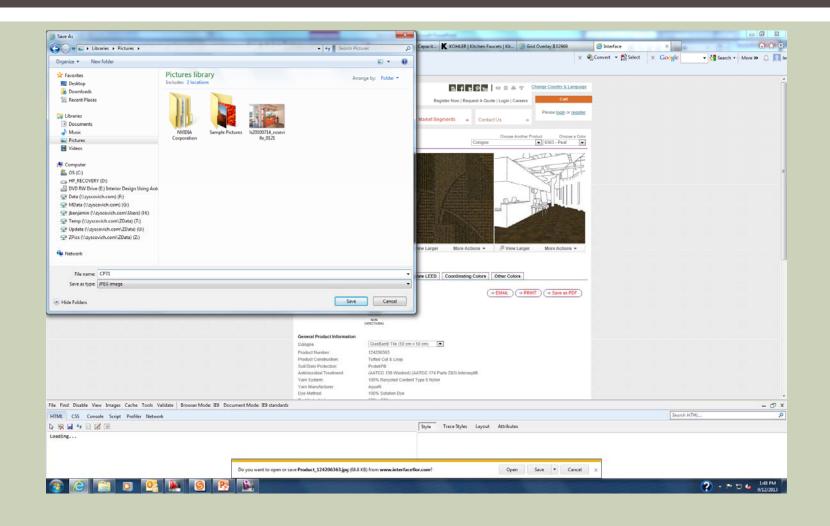


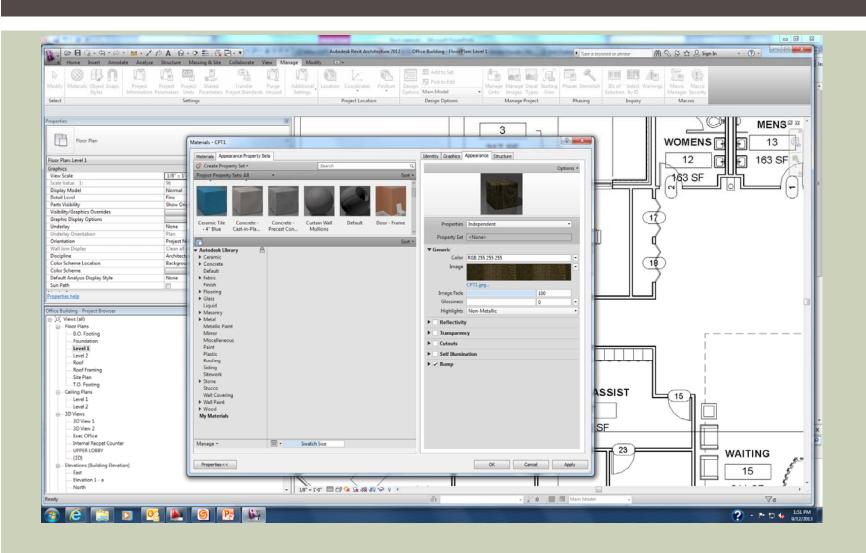


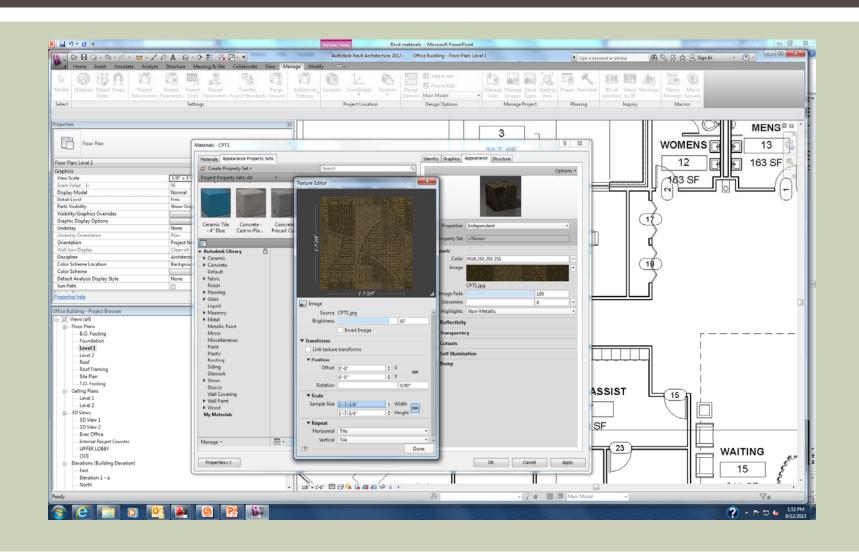


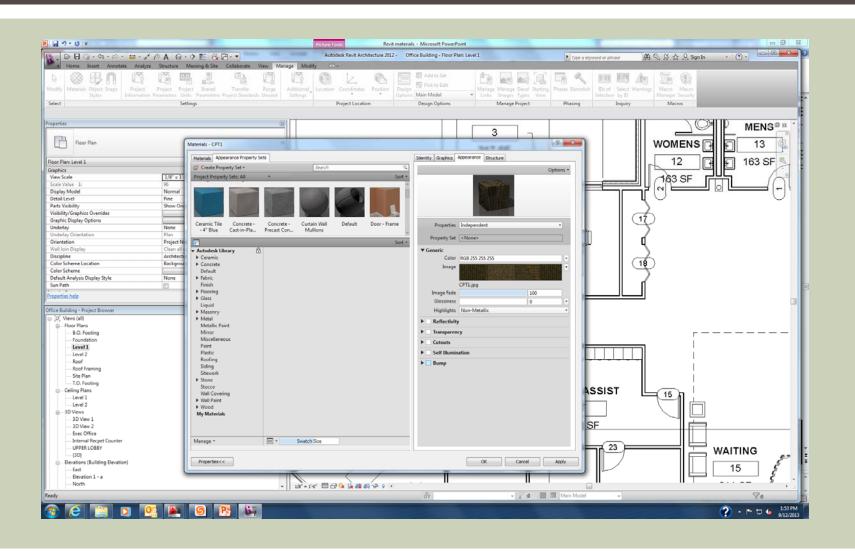
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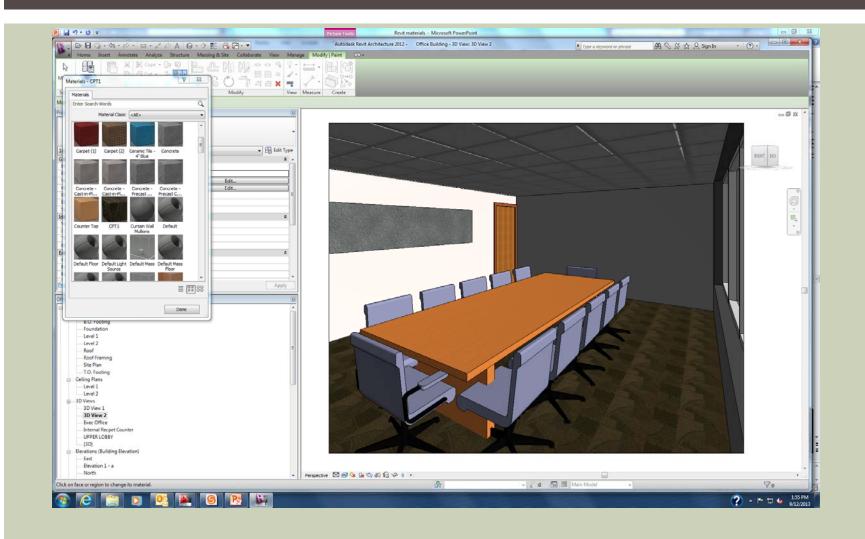
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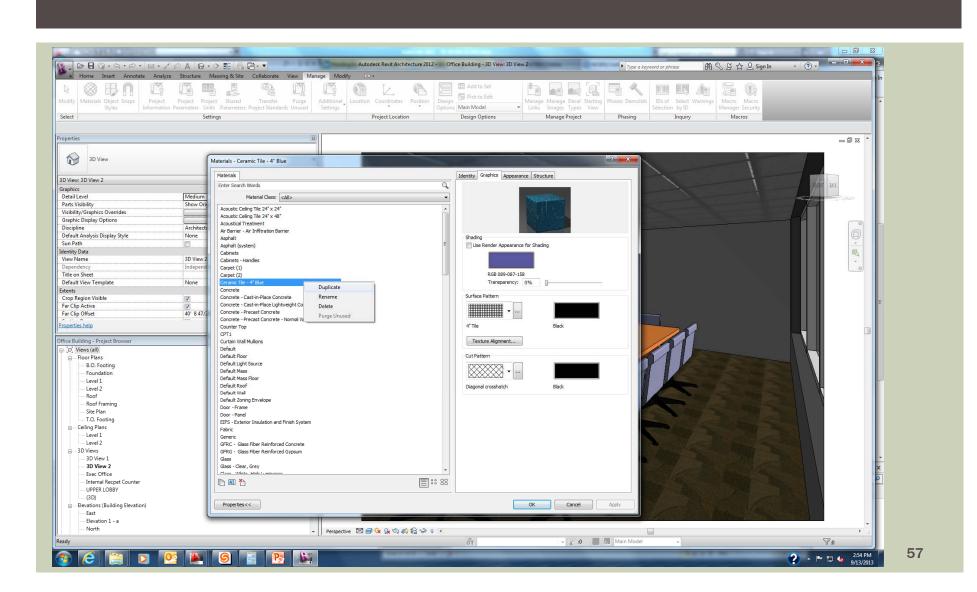


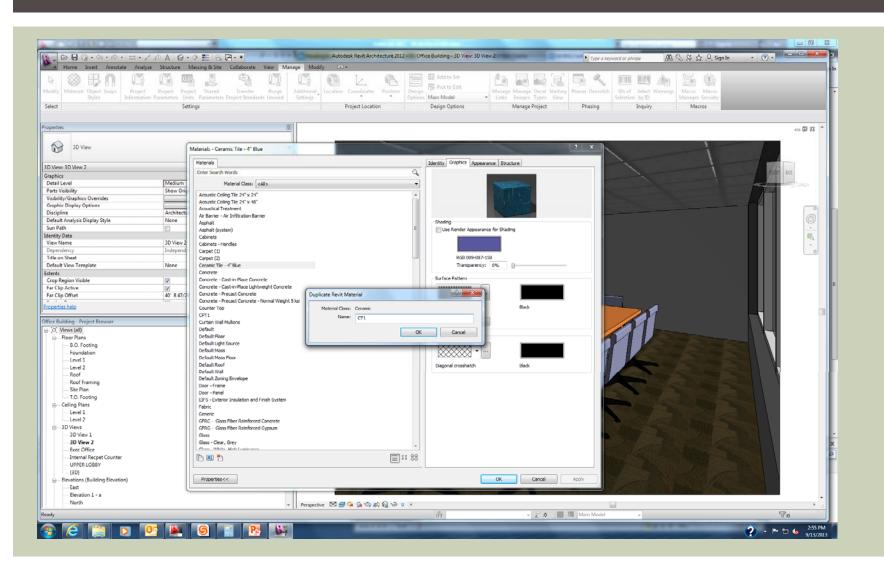


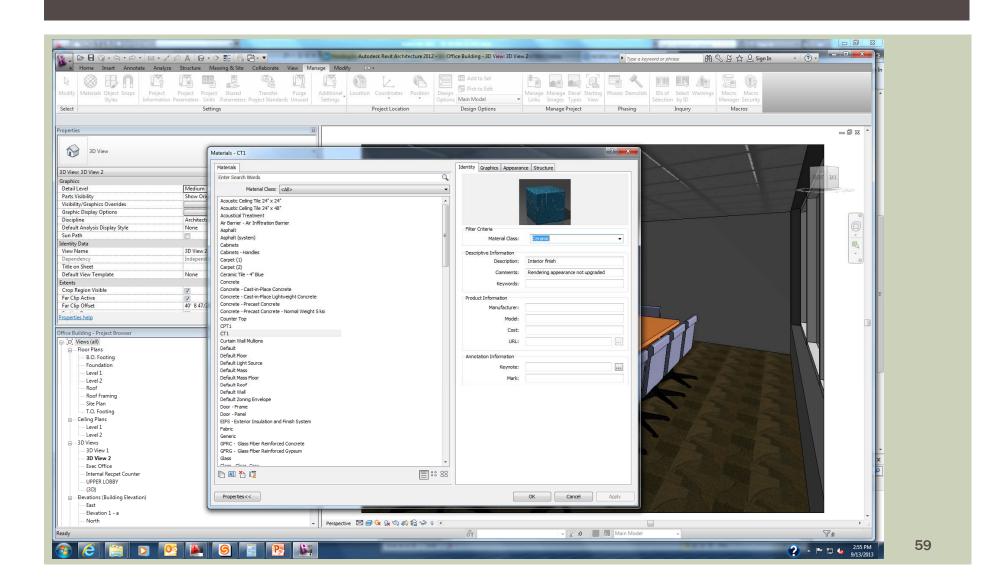


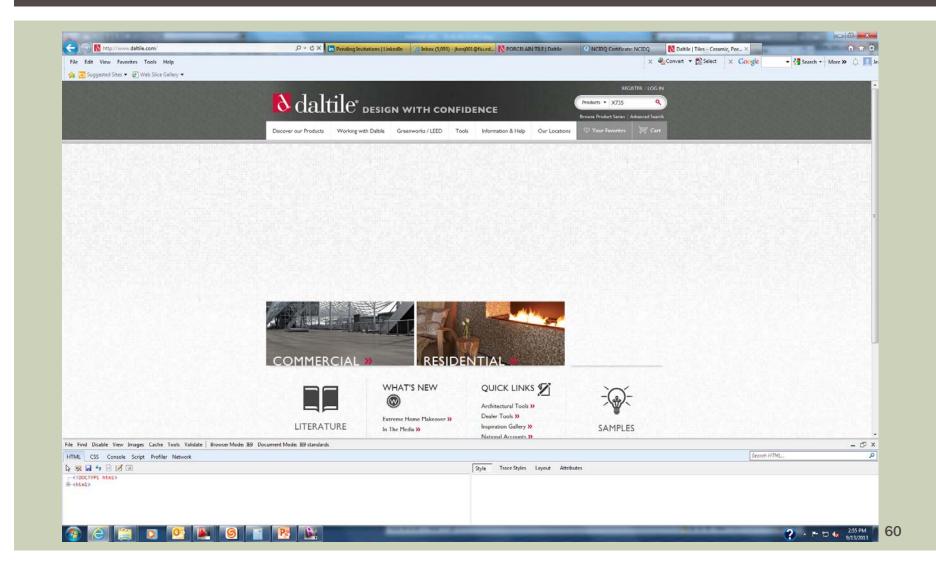


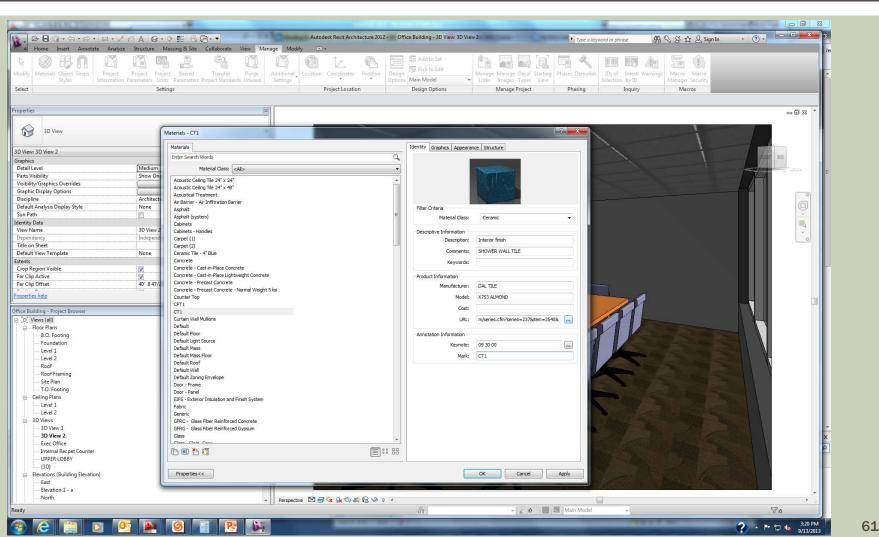










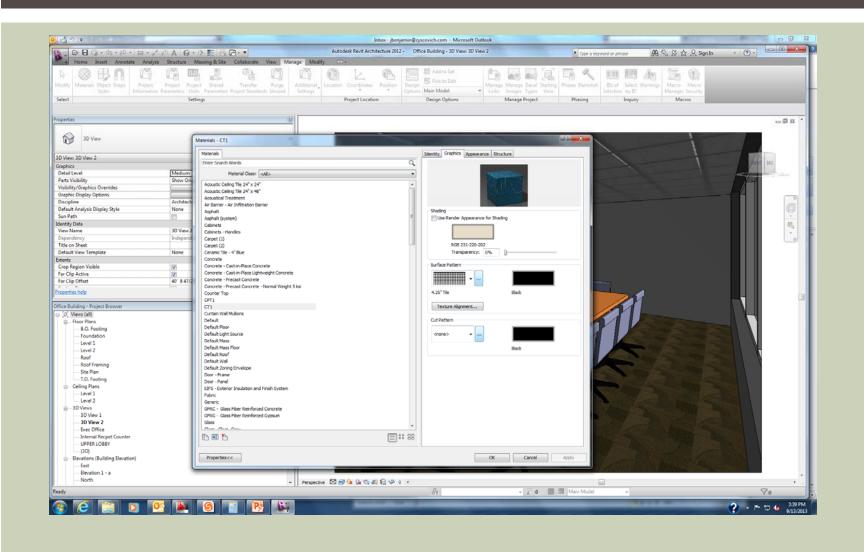


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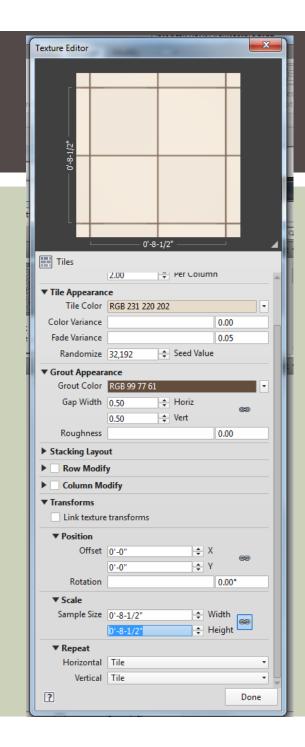
Adjust the RGB to the following:

- R=231
- G=220
- B=202
- Click the surface pattern preview, select the model option, and then select 4.25" tile.
- Set the cut pattern for the tile to none, click the preview and then click the no pattern button.



- Switch to the appearance panel
- Click the down arrow to the right of the image preview
- Select tiles from the list

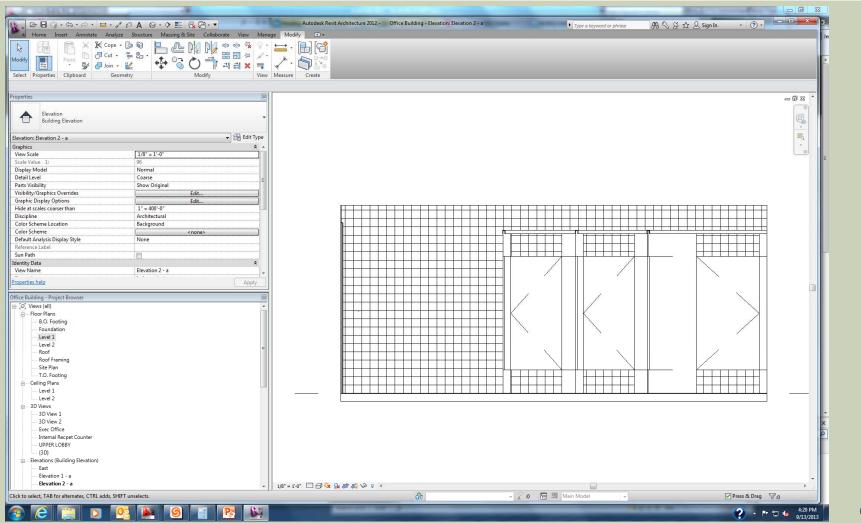
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CHANGE TO REFLECT BELOW

- Repeat the same steps for the relief pattern
- Switch to graphics panel
- Click texture alignment button
- Click arrows if necessary to make fill pattern align with the render appearance pattern
- Click ok to close

PLACE AN ELEVATION IN THE RESTROOM AND PAINT CT1



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IN CLASS EXERCISE

- Open a new Revit file
- Draw a 15x15, 20x15 or 10x12 private office
- Draw the walls first
- Add the door(s)
- Add any curtain wall(s) or window(s)
- Add a floor
- You do not have to show furniture
- You do not have to place a ceiling
- Add finishes to the floor and walls based on today's lecture (materials browser, create new mat'l or duplicate)
- Add a camera and set to realistic