New York City College of Technology
Division of Continuing Education

Building Information Modeling with Revit 2014
Module 10 : FH.07

Bunkhouse Foundations & Roof

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http://professorpaulking.wordpress.com/
http://openlab.citytech.cuny.edu/bim101-sp14/
http://students.autodesk.com/
Exterior Wall: Siding and Color Display

- Select Wall > Edit Type
- Structure > Material of Siding Layer
- Set Shading Color R-G-B 242-231-197
- Set Surface Pattern Horizontal-small
Bunkhouse Entry : Curtain Wall : Overview

- Floor Plans
  - BUNKHOUSE Ground Floor View
- Entry area at building front
- Add Curtain Wall
Bunkhouse Entry : Curtain Wall : Split & Create

- Select Wall & Split off area between walls
- Set Justification to Wall Centerline
- Change wall type to: Curtain Wall 1

Duplicate Views
Sheet layout Options
Construction Document Set
Wrap Up
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Bunkhouse Entry: Curtain Wall: Cleanup

- Model Lines
- Pick Lines
- Offset 6”

- Align opening to guidelines
- Delete the guidelines
Bunkhouse Entry: Curtain Wall: Verticals

- Curtain Grid > Top Edge
- Adjust temporary dimension
- 2'-4” & 2'-8” from left
- 2'-4” & 2'-8” from right

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Exterior Wall Display
Curtain Wall
- Split & Create
- Cleanup
- Verticals
- Horizontals
- Add/Remove Segment
- Mullions
- Glass Door
- Remove Mullion
- Spandrel Glass
- Create Material

Duplicate Views
Sheet layout Options
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Bunkhouse Entry: Curtain Wall: Horizontals

- Curtain Grid > Side Edge
- 7’-3 from bottom
- Twice @4’-0” from first grid
- 3’-6” from top

Exterior Wall Display

- Curtain Wall
  - Split & Create
  - Cleanup
  - Verticals
  - Horizontals
  - Add/Remove Segment
  - Mullions
  - Glass Door
  - Remove Mullion
  - Spandrel Glass
  - Create Material

Duplicate Views

Sheet Layout Options

Construction Document Set

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Bunkhouse Entry: Curtain Wall: Add/Remove Seg

- Add Vertical Line in Center
- Place Aligned Dimension
- Equal-Equal

Select Grid Line
Add/Remove Segments

Select Top Edge
Remove Segment

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Exterior Wall Display
Curtain Wall
- Split & Create
- Cleanup
- Verticals
- Horizontals
- Add/Remove Segment
- Mullions
- Glass Door
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Duplicate Views
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Bunkhouse Entry: Curtain Wall: Mullions

- Mullions
- All Grid Lines

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Exterior Wall Display

Curtain Wall:
- Split & Create
- Cleanup
- Verticals
- Horizontals
- Add/Remove Segment
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- Glass Door
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Duplicate Views
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Wrap Up
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Bunkhouse Entry : Curtain Wall : Add Glass Door

• Select Curtain Panel
• Use Tab to select Panel
• Switch to “Curtain Wall Dbl Glass” Door

• Load Family > Curtain Wall Dbl Glass
Bunkhouse Entry: Curtain Wall: Remove Mullion

- Select Mullions at base of the door
- Filter to Select only Mullions
- Delete
Bunkhouse Entry: Curtain Wall: Spandrel Glass

- Select Panels
- Edit > Duplicate
- Rename > Spandrel
- Material > Bronze
Bunkhouse Entry: Curtain Wall: Create Material

- If Glass, Bronze does not exist
- Edit Type > Material > Edit …
- Color > RGB 128-64-64 > OK
- Transparency = 0 (Opaque Material)
- Save
Bunkhouse Entry: Curtain Wall: Spandrel Glass

- Spandrel Glass to Hide Floor Slab and Heating Units
Duplicating Views

• **Duplicate:**
  - Annotation not copied and view can be set to a different scale than original

• **Original View:**

• **Duplicate as dependant:**
  - Identical in scale and annotation but can be cropped

• **Duplicate with detailing:**
  - Annotation is copied but can be edited independently & scale can be different
Sheet Layout Options

- Exterior Wall Display
  - Curtain Wall
    - Split & Create
    - Cleanup
    - Verticals
    - Horizontals
    - Add/Remove Segment
    - Mullions
    - Glass Door
    - Remove Mullion
    - Spandrel Glass
    - Create Material
- Duplicate Views
- Sheet layout Options
- Construction Document Set
- Wrap Up
Sheet Layout Options: Two Plans on a Sheet

- Exterior Wall Display
- Curtain Wall
  - Split & Create
  - Cleanup
  - Verticals
  - Horizontals
  - Add/Remove Segment
  - Mullions
  - Glass Door
  - Remove Mullion
  - Spandrel Glass
  - Create Material

- Duplicate Views
- Sheet layout Options
- Construction Document Set
- Wrap Up

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Development of a Construction Documents Set

- **Final Assignment:**
  To develop as complete and logical set of construction documents as you can. The final set will be printed 11 x 17 and bound in order and should comprise a minimum of 30 to 40 sheets.

- **CD Set Categories**
  - Architectural Floor Plans
  - Ceiling Plans
  - Furniture Plans
  - Structural Plans
  - Exterior Elevations
  - Building Sections
  - Interior Elevations
  - Callouts of all types
  - Part plans and Details

- **Considerations**
  - What makes a good set of construction documents?
  - What do we need to explain in order to build this building?
  - Appropriate Scale
  - Sheet naming and numbering
  - Project Browser Organization
Day 10 - Wrap Up

- Exterior Wall Display

- Curtain Wall Development
  - Verticals
  - Horizontals
  - Add/Remove Segments
  - Mullions
  - Glass Door
  - Add/Remove Mullions
  - Add Glass Door
  - Add Spandrel Glass
  - Create New Material

- Sheet Layout Options
  - Test sheet layouts

- Development of Construction Documents