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**A30x165x40UB**. Concrete pier centered on steel column 6 On the Design Bar, click Modify. Adding Trees to the Site In this exercise, you place two different types of trees on the building site. Specifying File Locations [ 15 ] 21 On Library Libraries, select My Library. Because an extruded roof has a roof type associated with it, you only need to sketch a few lines to define the shape of the roof. The Extruded Roof tool creates a roof surface from a closed contour. To create a roof, click the Extruded Roof tool on the ribbon. A new roof does not own. 51 On the Options Bar, click Label, and select vr. Family element visibility can be dependent of your viewing direction, such as plan, elevation, or 3D, as well as the level of detail associated with that view. 3 In the Edit Text dialog box, enter the following address: 123 Main Street, Anytown, MA 12345. 3 On the Modelling tab of the Design Bar, click Structural Wall. An example of a linked file with many locations is a prototype model of a house that is placed on 3 different lots. Change the number of bars 18 In the Element Properties dialog, do the following: ■ For Value, under Construction, select Fixed Number. ■ Phase 2 (north): Includes new steelwork, footings, a floor slab, and a non-load-bearing brick lower wall for a new building to be constructed north of the Galleria. 72 Proceed to the next exercise, "Add Bracing" on page 82. 9 In the Project Browser, expand Structural Plans, and double-click Level 1 - Analytical. You can import pen numbers from a DWG or DXF file and map them to a Revit Structure line weight. 42 Select the top girder in the lower-left bay as shown. Bolted Angle Detail [ 179 ] Add annotations 4 On the Drafting tab of the Design Bar, click Detail Lines. In the following illustration, the midpoint of the lower notch line is selected. Drawing Linework for a Titleblock Sheet [ 379 ] Move the cursor over the right inside border line, and click to draw a new vertical line. For example, you can view the project from the slab looking up (up direction), or from the roof looking down (down direction). viii | Contents | 1 Repeat the same steps to place a vertical line on the opposite side. 180 | Chapter 8 Steel Details Facade Support Detail Dataset Continue to use the dataset you saved in the previous exercise. ■ Select Structural Framing :Angle 1,100X10X16, 284 | Chapter 12 Project Coordination . 504 | Chapter 22 Rendering Views and Creating Walkthroughs 9 In the Rename View dialog box, enter Interior, and click OK. On the File menu, click Save. 10 Proceed to the next exercise, "Facade Support Detail" on page 181. ■ Under Constraints, specify -30 mm. 11 Click OK. 12 On the Options Bar, click the Location button. 13 On the Options Bar, click the Location button. 14 On the Options Bar, click the Location button. 15 On the Options Bar, click the Location button. 16 On the Options Bar, click the Location button. 17 On the Options Bar, click the Location button. 18 On the Options Bar, click the Location button. 19 On the Options Bar, click the Location button. 20 On the Options Bar, click the Location button. 21 On the Options Bar, click the Location button. 22 On the Options Bar, click the Location button. 23 On the Options Bar, click the Location button. 24 On the Options Bar, click the Location button. 25 On the Options Bar, click the Location button. 26 On the Options Bar, click the Location button. 27 On the Options Bar, click the Location button. 28 On the Options Bar, click the Location button. 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are joints on the top or bottom plane of the wall's analytical model will coincide with the slab analytical model as shown: If a wall has a portion that extends beyond the roof (commonly known as parapets), it can be excluded in the wall's analytical model to exclude loads that extend above a level with framing members. You can also use the zoom shortcut keys such as Z0 to zoom out. Documenting the Analytical Model 15 In the Interference Report dialog, click Close. Navigate to the directory containing the beam type, select it, and click Open. 23 In the Element Properties dialog, under Analytical Model, for Horizontal Projection, select Auto-detect, and then click OK. 18 Right-click the dimension line that references the face of the south wall of the North Building, and click Edit Witness Lines. 16 Click the toggle control to change the rebar hook type as shown. 546 | Chapter 24 Grouping 20 On the File menu, click Save. 5 On the Edit toolbar, click . 202 | Chapter 9 Concrete Details ■ For Quantity, enter 3. You work with a building model that already has material applied to it. Notice the project file becomes active and the beam updates with the latest changes. 4 To create an elevation view of the building lobby, place the cursor inside the building facing the lobby entrance, and click. Creating a Step Footing In-Place Family 18 In the Project Browser, under Structural Plans, right-click Level 1, and notice the context menu includes options to rename, duplicate, or delete this view. 5 Click Edit menu ► Copy to Clipboard. You learn how to access and create building model views and how to change the visibility of building components and annotation within views. 33 In the Element Properties dialog, change the following instance parameters: ■ Under Structural, select Field Weld. 3 Select the title block, and on the Options Bar, click. The elements in this instance of the group remain displayed in their object style. 17 In the Edit Assembly dialog box, for Layer 2, click in the Material field that contains Default Floor, and click . 31 On the Drafting tab of the Design Bar, click Revision Cloud. 72 In the Type Properties dialog, click Duplicate. Notice that you can modify both length and angular snap increments. 326 | Chapter 13 Structural Analytical Modelling The dot located at the top of the beam, represents the vertical projection plane of the beam analytical model. 26 On the Rendering tab of the Design Bar, click Region Raytrace. 14 In the Project Browser, under Elevations (Building Elevation), double-click South Elevation. 543 . Creating the Structural Design Options | 407 26 On the Options Bar, select ■ Constrain ■ Copy ■ Multiple 27 Zoom in around the upper left column that is embedded in the notch, and click the center point. 15 Under Analytical Projection Plane Top, select Top of Column. 442 | Chapter 19 Linking Building Models and Sharing Coordinates Acquiring and Publishing Coordinates In this exercise, you publish the coordinates from a host project file to two different buildings that are linked to that project. 5 On the Design Bar, click Lines. Documenting the Analytical Model In this exercise, you document the analysis by adding an annotation, and creating an analytical schedule. 2 On the Design Bar, click Dimension. 18 Select the far right window in the top wall. NOTE When you use the Grid Intersection tool to place columns, Revit Structure places the tops of the columns at the current level, and the bases of the columns at the level below. Boundary Conditions In this exercise, you add a boundary condition to your model for use by the analysis and design software. 6 Proceed to the next exercise, "Modifying Import/Export Settings" on page 46. Exploring the Building Model | 469 9 On the View toolbar, click to reorient the view. Tagging Beams | 251 252 | Chapter 10 Annotating and Dimensioning Worksheets 11 On many building projects, engineers commonly work in teams with each person assigned to a specific functional task. Creating Named Print Settings In this exercise, you create named print settings, and add them to your default template file. NOTE In the image above and all subsequent images, the framing tag visibility has been turned off for training purposes. Loads are placed perpendicular to the view's current work plane. The missing sketch line is highlighted in the plan view. 7 Click Apply, and OK. Frame Ground Level and Parking Garage Placing a Wall Foundation . 21 Click the File Locations tab. In the next tutorial, "Creating a Structural Model" on page 65, a new dataset is supplied. Changes to a family type definition ripple through the project and are automatically reflected in every instance of that family or type within the project. Notice that you can choose between the 2 beam tag types loaded into this project. 21 Add 2 dimensions from the center reference plane to the bottom of each side of the profile, place the dimension under the lines as shown, and click the EQ symbol to apply equal constraints. 25 Click Edit menu ► Paste Aligned ► Select Levels by Name. Creating a Nested Group . ■ For e2, enter 100 mm. 26 Draw 3 vertical lines, equally spaced as shown below. To open a view, double-click the name. 8 Scroll to the first joist on the schedule, and enter 1.5 for Cost. 135 Creating Drawing Sheets in a Project In this lesson, you learn how to create sheets within a Revit Structure project, how to add views to the sheets, and how to create new views from a model. Change the Schedule Appearance In this exercise, you learn how to add a title to the schedule and how to customize text and graphic appearance. 190 | Chapter 9 Concrete Details 7 In the section view, select the crop region, and drag the controls to resize the crop region such that only the foundation wall is shown. 274 . ■ Under Peak Offset from Chord, enter 1.5 m. 9 Close the exercise file without saving your changes. Use the template 16 To use the template, click File menu ► New ► Project. 7 Press ESC or Modify to finish the placing the columns. 27 Click OK. 14 Proceed to the next exercise, "Modifying Views and View Templates" on page 42. Reselect Interior Major Direction and Exterior Major Direction, and click OK. 20 On the Modelling tab of the Design Bar, click Loads. 1 In the Project Browser, under Structural Plans, double-click Level 3. 12 Place the rebar at the base of the wall approximately as shown. 69 Select the slab, and in the Type Selector, select Floor: 160mm Concrete with 50mm Metal Deck. 52 Referring to the walls displayed as dashed lines in the following illustration, select the interior walls one at a time. 9 In the Object Styles dialog, click OK. 26 On the View Control toolbar, select Model Graphic Style: Shading w/Edges. 23 In the Parameter Properties dialog, click OK. Making Elements Editable | 259 All structural columns in the model are highlighted, and a worksheet puzzle-piece icon displays next to each column indicating it can be changed to editable. 6 In the Roof Reference Level and Offset dialog box, verify Level 3 is selected for Level, and click OK. NOTE Be sure to sketch from the footing to the wall. 18 On the Modelling tab of the Design Bar, click Boundary Conditions. 20 In the Materials dialog, select Concrete-Precast for Name, and click OK. If you only have one worksheet checked out, it becomes the active worksheet. AccuRender is the rendering engine incorporated into Revit Structure that is used to produce rendered views. Change the brick texture of the exterior wall finish material 7 On the Settings menu, click Materials. If it does not, fix any problems with alignment or constraints. Grid B from the architect's model is highlighted on the Level 3 window. 15 In the Edit Shared Parameters dialog, under Parameters, click New. Set units of measurement 1 Click Settings menu ► Project Units. 37 On the View menu, click Orient ► Northeast. 39 Select, draw a zoom box around the lower floors of the structure as shown. You create a new sheet on which you place the schedules, as well as two views of the building model. 524 . For example, a column could come in several different sizes. The list is dependent on the options that you selected during installation. Changing the Walkthrough Path and Camera Position In this exercise, you learn how to edit the walkthrough path and change the camera position in the walkthrough that you created in the previous exercise. Hiding Levels /Creating the Schedule . This means that the detail level of the linked file is matched to the detail level of the current active project view. Select one of the messages and notice the wall is highlighted on the Structural Plan: Level 3 plan view. Review support warnings 6 Click Tools menu ► Review Warnings. Select the Export each view or sheet as a single file option. You can also use the Type Selector to change a component type after it has been added to the building model. Render the perspective view 4 In the Project Browser under 3D Views, double-click Interior. Creating a Perspective View with a Camera | 473 14 In the Project Browser under Floor Plans, double-click Level 1. Standard move commands work with linked building models. 4 Under Available Fields, select the following fields, and click Add to add them to the schedule in order: ■ Count ■ Family and Type ■ Length TIP Press and hold CTRL to make multiple selections under Available Fields. These settings control the graphics, selection default options, notification preferences, journal cleanup options, and your username when using worksheets. 9 On the Tools menu, click Split Walls and Lines. 19 Notice that the cursor now snaps only to the midpoint of the wall. 25 On the View toolbar, click . 8 In the drawing area, click above the elevator shaft, and move the cursor clockwise to create a segment of the revision cloud. ■ In the left pane of the Open dialog box, scroll down and click the Training Files icon. ■ Click the message Floor: Floor: 152mm Concrete. 23 On the Options Bar,
click . 8 Clear Read-only, and click OK. 458 | Chapter 20 Project Phasing 23 Use a crossing window to select the existing building, as shown. 161 . The Annotation Line Weights tab controls the line width of annotation symbols, such as section lines and dimension lines. Custom allows you to override specific visibility settings for a linked project or an instance of the linked project. When the modified file is brought back into Revit Structure, the copy monitor feature automatically notifies you of the changes, which can be accepted, rejected, or postponed, depending on the option to the design. ■ For Save to Central Reminder Interval, select One hour. 33 Sketch a slope arrow from left to right as shown. The objects are now grouped and can be placed in the drawing as a single entity. 28 Proceed to the next exercise, "Transfer Project Standards" on page 318. 24 On the Options Bar, click, and select Wall faces for Prefer. ■ Enter 0 for Bottom Weld Size. Notice the clear spacing between each precast beam is removed. 10 Move the cursor to the south wall of the South Building, and select the exterior face. 5 Double-click the section bubble to open the section view. NOTE Be sure you are creating a new option, not a new option set. 8 In the Project Browser, under 3D Views, double-click 3D - Atrium. 11 Modifying System Settings In this lesson, you learn how to control the system settings within Revit Structure. 22 On the Sketch tab, click Finish Sketch. 15 On the Sketch tab of the Design Bar, click Finish Sketch to complete the roof. 5 In the Opening Placement Options dialog, select Create shaft opening, and click OK. 200 | Chapter 9 Concrete Details 5 On the Design Bar, click Modify. TIP The project template determines which view is opened and the view names as well. Create a custom phase filter 57 On the Settings menu, click Phases. 130 | Chapter 5 Precast Concrete NOTE Make sure the top dimension line snaps to the horizontal reference plane and not the horizontal line of the beam. You can also use the Demolition tool to select building elements for demolition. The Section 2 view opens. Notice it is labeled B. 21 On the Tools toolbar, click , and align the windows. These messages are a result of the central file being relocated (to your PC). 13 On the View menu, click Zoom ► Zoom All To Fit. 10 Select the middle horizontal wall, and drag it downward. 5 Select any of the exterior walls. 21 In the Materials dialog box, under Name, click Duplicate. 2 In the Options dialog, click the File Locations tab. Repositioning Linked Building Models . A Warning dialog appears notifying you that there are model elements that have a zero-length. 61 On the Design Bar, click Finish Sketch. TIP This template is the starting point for your new template. 512 . ■ Zoom out and move the cursor over the upper right column. Importing/Linking a 2D AutoCAD File . The finished sheet Phasing Your Model In this exercise, you begin with all the building elements drawn as new construction. 31 Move the cursor onto the sheet, and click to place the view. Create the drafting view 1 On the View tab of the Design Bar, click Drafting View. Each modifies the structural model within their local file and publishes it back to the central file where the other user can see the changes. 60 Under Filter Name, click Filter 1, and enter Demo Red. When you complete the roof, the opening that you sketched becomes a void in the roof. It is unlikely that you would ever want to modify this path. ■ For d11, enter 50 mm. 44 Select the top girder in the lower-right bay as shown. The east elevation view displays with hidden lines. 8 On the Options Bar, click Edit Group. 118 Chapter 5 Precast Concrete . 4 Press the TAB key and select the endpoint of the analytical line of the beam. 60 | Chapter 3 Starting a New Project to pin the drawing so that it cannot be moved within the Revit Structure 10 Click Tools menu ► Copy/Monitor ► Select Link. Linking Building Models from Different Project Files | 429 Move the condo complex building model 14 Select the linked building model. 59 On the Options Bar, click Center and Middle. 290 | Chapter 12 Project Coordination 35 On the Design Bar, click Finish Sketch. 34 Repeat the beam system process for the bay to the right using the following beam system property values in the Element Properties dialog: ■ Under Constraints, enter -400 mm for Elevation. In this tutorial, you learn about the various types of families and the Family Editor. 5 Right-click each of the copies, and click Rename. 33 Click the first instance of the townhouse on the left. 21 Click File menu ► Close. 25 Move the cursor onto the sheet, and click to place the view. Welded Bracing Detail Dataset Continue to use the dataset you saved in the previous exercise. 3 Under Default template file, click Browse. A copy of the townhouse is displayed on the right side of the site project. 42 On the Modelling Tab of the Design Bar, click Beam System. The Total Cost column is now hidden. You can save the file if you wish. ■ Select Structural Framing Tags. This is a temporary setting that you can turn off by selecting Reset Temporary Hide/Isolate from the Hide/Isolate control. 29 Click Settings menu ► Options. 28 On the View Control Bar, select Model Graphics Style: Shading with Edges. The selected load case is copied in the table. PANTONE® and other Pantone, Inc. in the text box. Repeat this step two more times until you have three copies of the view. 7 After a warning message displays, click OK. Display the interior perspective view 1 In the Project Browser, under 3D Views, double-click Interior to display the interior perspective view. 10 Click File menu ► New ► Project. In order to see a concise listing of all the doors in the campus project, you can sort the schedule data and display a single table entry per door type. You also create a detail group in the level 2 floor plan that you add to the building model in a different floor plan view. 6 In the Project Browser under Sheets (all), double-click S-2 Section Views. 2 In the New Project dialog, under Template file, click Browse. Creating a Section View | 477 2 On the Basics tab of the Design Bar, click Section. Modifying Project Browser Organization | 33 Organize Project Browser by sheets 11 Click Settings menu ► Browser Organization. After you link an Autodesk Revit Structure 4 project into another project, a connection to the original linked project continues to exist. In the Revit dialog, click No. 41 In the Project Browser ► Sections (Building Section), double-click Section 3. 21 Click to end that segment and begin a new segment. Cut Sections and Add Views to Sheets | 191 Resized view 8 On the View Control Bar: ■ Click Scale control, and select 1:20. ■ Between the column just above K4 and over to F5. Create named print settings 1 Click File menu ► Print. The new sheet, incrementally named S-2 Section Views, is displayed in the Project Browser, under Sheets (all). 12 In the Interference Report dialog, do the following: ■ Under Structural Framing ► expand Doors. Using these options, you modify the appearance of components and their subcomponents within a project. 24 Click the section box. The changes you made to the template are now the starting point for this project. Creating a local file 47 Click File menu ► Open. 7 On the Tools toolbar, click . 424 | Chapter 18 Creating Multiple Design Options Linking Building Models and Sharing Building Models . A Warning dialog appears notifying you that there are model elements that have a zero-length. 61 On the Design Bar, click Finish Sketch. TIP This template is the starting point for your new template. 512 . ■ Zoom out and move the cursor over the upper right column. Importing/Linking a 2D AutoCAD File . The finished sheet Phasing Your Model In this exercise, you begin with all the building elements drawn as new construction. 31 Move the cursor onto the sheet, and click to place the view. Create the drafting view 1 On the View tab of the Design Bar, click Drafting View. Each modifies the structural model within their local file and publishes it back to the central file where the other user can see the changes. 60 Under Filter Name, click Filter 1, and enter Demo Red. 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listing of all the doors in the campus project, you can sort the schedule data and display a single table entry per door type. You also create a detail group in the level 2 floor plan that you add to the building model in a different floor plan view. 6 In the Project Browser under Sheets (all), double-click S-2 Section Views. 2 In the New Project dialog, under Template file, click Browse. Creating a Section View | 477 2 On the Basics tab of the Design Bar, click Section. Modifying Project Browser Organization | 33 Organize Project Browser by sheets 11 Click Settings menu ► Browser Organization. After you link an Autodesk Revit Structure 4 project into another project, a connection to the original linked project continues to exist. In the Revit dialog, click No. 41 In the Project Browser ► Sections (Building Section), double-click Section 3. 21 Click to end that segment and begin a new segment. Cut Sections and Add Views to Sheets | 191 Resized view 8 On the View Control Bar: ■ Click Scale control, and select 1:20. ■ Between the column just above K4 and over to F5. Create named print settings 1 Click File menu ► Print. The new sheet, incrementally named S-2 Section Views, is displayed in the Project Browser, under Sheets (all). 12 In the Interference Report dialog, do the following: ■ Under Structural Framing ► expand Doors. Using these options, you modify the appearance of components and their subcomponents within a project. 24 Click the section box. The changes you made to the template are now the starting point for this project. Creating a local file 47 Click File menu ► Open. 7 On the Tools toolbar, click . 424 | Chapter 18 Creating Multiple Design Options Linking Building Models and Sharing Building Models . A Warning dialog appears notifying you that there are model elements that have a zero-length. 61 On the Design Bar, click Finish Sketch. TIP This template is the starting point for your new template. 512 . ■ Zoom out and move the cursor over the upper right column. Importing/Linking a 2D AutoCAD File . The finished sheet Phasing Your Model In this exercise, you begin with all the building elements drawn as new construction. 31 Move the cursor onto the sheet, and click to place the view. Create the drafting view 1 On the View tab of the Design Bar, click Drafting View. Each modifies the structural model within their local file and publishes it back to the central file where the other user can see the changes. 60 Under Filter Name, click Filter 1, and enter Demo Red. When you complete the roof, the opening that you sketched becomes a void in the roof. It is unlikely that you would ever want to modify this path. ■ For d11, enter 50 mm. 44 Select the top girder in the lower-right bay as shown. The east elevation view displays with hidden lines. 8 On the Options Bar, click Edit Group. 118 Chapter 5 Precast Concrete . 4 Press the TAB key and select the endpoint of the analytical line of the beam. 60 | Chapter 3 Starting a New Project to pin the drawing so that it cannot be moved within the Revit Structure 10 Click Tools menu ► Copy/Monitor ► Select Link. Linking Building Models from Different Project Files | 429 Move the condo complex building model 14 Select the linked building model. 59 On the Options Bar, click Center and Middle. 290 | Chapter 12 Project Coordination 35 On the Design Bar, click Finish Sketch. 34 Repeat the beam system process for the bay to the right using the following beam system property values in the Element Properties dialog: ■ Under Constraints, enter -400 mm for Elevation. In this tutorial, you learn















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