



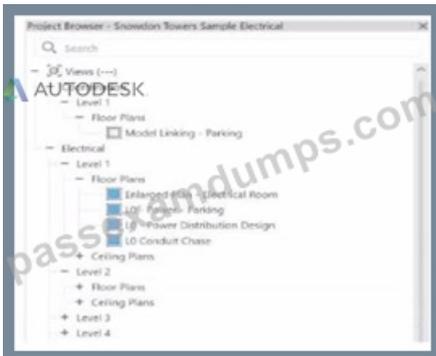
## Autodesk RVT\_ELEC\_01101 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>• <b>Analysis:</b> This section of the exam measures the skills of Electrical Engineers and focuses on performing analytical tasks in Revit. It includes conducting load calculations, conceptual lighting analysis, and configuring electrical settings for load classifications and demand factors. Candidates must show the ability to use Revit's analysis tools to ensure proper electrical design performance and energy efficiency.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>• <b>Modeling:</b> This section of the exam measures the skills of Electrical Designers and covers creating and managing electrical elements within Revit. It includes adding electrical equipment such as panelboards and transformers, configuring circuits and low-voltage systems, and using the System Browser for navigation. Candidates must also demonstrate the ability to model connecting geometry, including conduits, cable trays, and wiring, with appropriate settings and fittings.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• <b>Documentation:</b> This section of the exam measures the skills of Revit Technicians and covers manipulating views, templates, and schedules to produce accurate documentation. It includes managing panel schedules, creating various view types such as legends, callouts, and 3D views, and applying phasing and revision management. Candidates are also tested on annotation tools, including tags, keynotes, and note blocks, to ensure clarity and consistency in project documentation.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Collaboration:</b> This section of the exam measures the skills of Project Coordinators and covers collaboration workflows in Revit. It includes working with imported and linked files, managing worksharing concepts, and using interference checks. Candidates are also evaluated on data coordination through copy monitor tools, exporting to different formats, managing design options, and transferring project standards to ensure effective teamwork in shared environments.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Families:</b> This section of the exam measures the skills of BIM Modelers and focuses on creating and editing Revit families. It includes defining MEP connectors, understanding system and component family types, configuring family categories, and setting up light sources. The section also assesses parameter creation, annotation family setup, and controlling element visibility to ensure effective customization and reuse across electrical projects.</li> </ul>

## Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q30-Q35):

### NEW QUESTION # 30

Refer to exhibit.

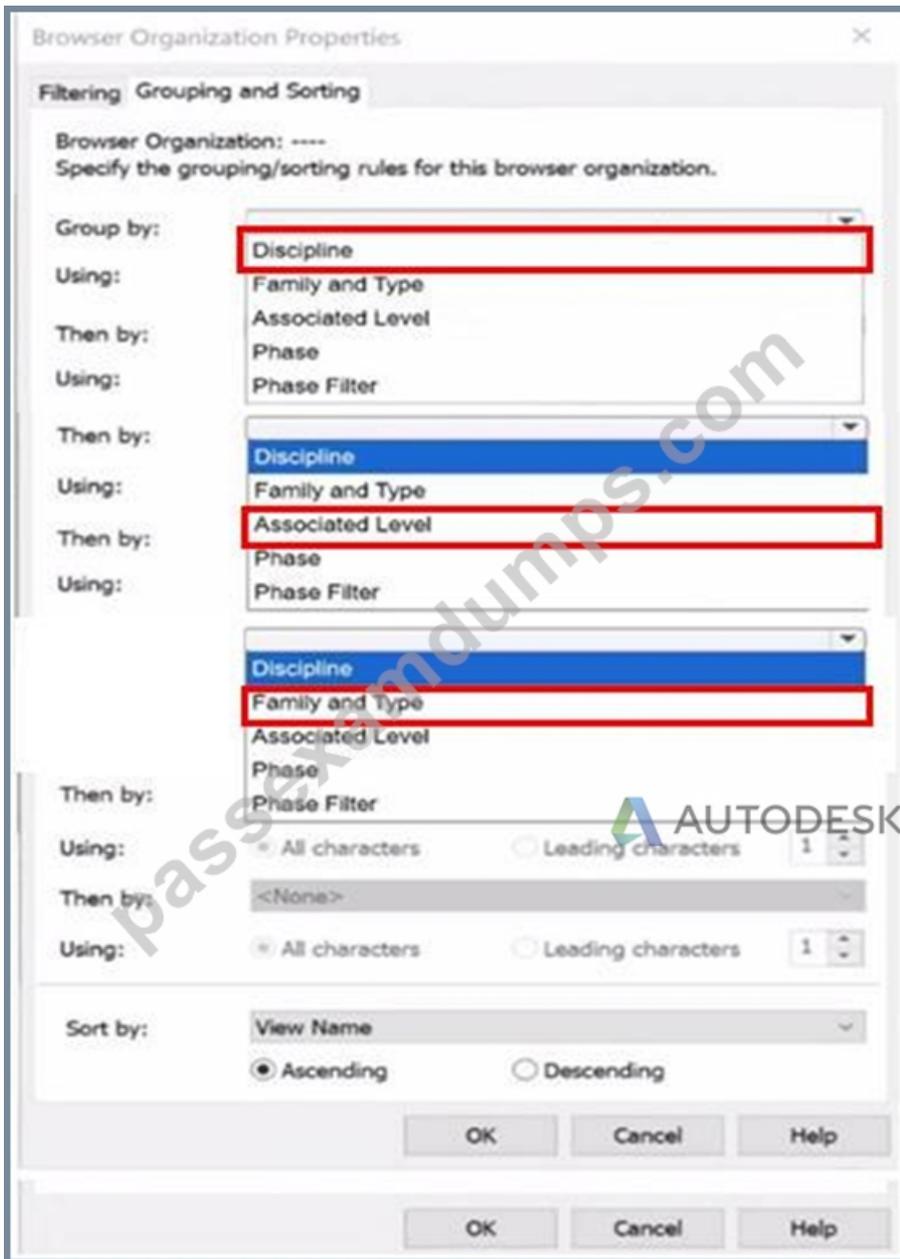


An electrical designer wants to organize the Project Browser as shown in the exhibit. Select the correct options in order to achieve the desired organization. (Select three.)



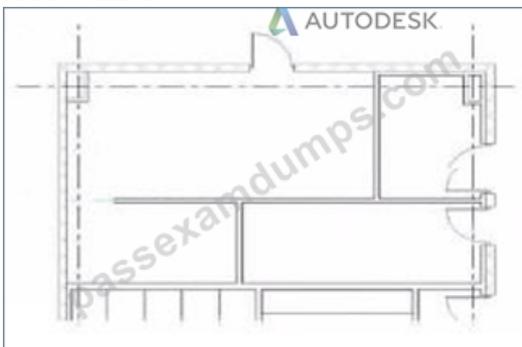
**Answer:**

Explanation:



### NEW QUESTION # 31

Refer to exhibit.



In this linked architectural model, demolished walls are missing. The electrical designer teams from the architect that the walls have been placed in a phase that does not exist in the host model.

Which steps should the designer take to associate the architectural phases to their phases?

- A. Open Visibility Graphics > Revit Links > Display Settings
- B. Open Manage Links > Manage Phases

- C. Select Phases > Graphic Overrides
- D. Select the link > Edit Type > Phase Mapping

**Answer: D**

**Explanation:**

In Autodesk Revit, when demolished walls or other elements from a linked architectural model are missing in the host model, the issue typically lies in phase inconsistency between the host and linked models. The architectural model may include elements created or demolished in phases that do not exist or are mismatched in the electrical model (the host). To resolve this, Revit allows users to map phases between the host and linked models through the Phase Mapping tool in the link's Type Properties dialog.

According to the Autodesk Revit MEP Electrical Design Guide (Linked Models Section, pp. 1282-1287), the official procedure is: "You can manually set up a correspondence between phases in the host model and phases in the linked model. To do this, you set up a phase map in the properties of the linked model, and then apply the phase map in the host model." (Revit MEP User's Guide, Chapter 53 - Linked Models, p. 1282) The step-by-step process is precisely described in the Revit documentation as follows:

To map phases in the linked model:

In the drawing area of the host model, select the linked Revit model.

Click Modify | RVT Links tab > Properties panel > Type Properties.

In the Type Properties dialog, find the Phase Mapping parameter and click Edit.

In the Phases dialog, select the appropriate mapping options for each phase, and click OK.

Click OK to exit the Type Properties dialog.

(Revit MEP User's Guide, p. 1287)

This procedure ensures that demolished or existing architectural elements display correctly according to the electrical model's phase structure. Without this mapping, Revit cannot interpret which linked phase corresponds to the host's "Existing" or "New Construction" phases, causing certain geometry-like demolished walls-to disappear from view.

Supporting Extracts from Revit for Electrical Design Study Documentation:

Linked Model Type Properties:

"To modify the type properties of a linked model, select the linked model in the drawing area, and click Modify | RVT Links tab > Properties panel > (Type Properties).

The Phase Mapping parameter allows you to set up a correspondence between phases in the host model and phases in the linked model." (Revit MEP 2011 User's Guide, p. 1305) Phases and Linked Models Concept:

"When you link a Revit model that has more than one phase, phases in the host model automatically map to phases in the linked model. When this initial mapping occurs, Revit maps phases by matching phase names.

You can manually set up a correspondence between phases in the host model and phases in the linked model using the Phase Mapping function." (Revit MEP 2011 User's Guide, p. 1282) Phase-Specific Room and Element Display:

"If phase-specific elements in a linked model do not reflect correctly, check phase mapping for the linked model. If automatic mapping does not give the desired result, map phases manually between projects." (Revit MEP 2011 User's Guide, p. 710)

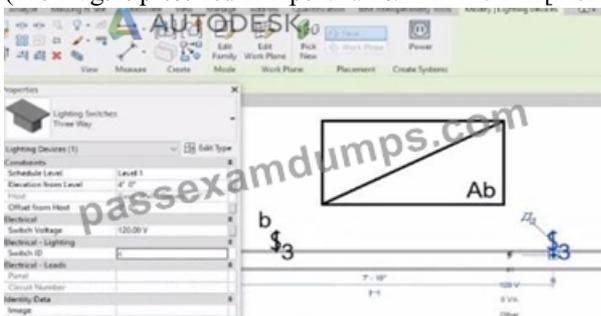
Conclusion:

Therefore, to fix the issue where demolished walls are missing in a linked architectural model, the electrical designer must perform manual phase mapping between the architectural model and the host electrical model. This is done by selecting the linked file, opening its Type Properties, and editing the Phase Mapping parameter.

## NEW QUESTION # 32

Refer to exhibit.

(The image is presented in Imperial units: 1 In = 25 mm [Metric units rounded].)



An electrical designer is trying to add the selected three-way switch to the existing switch system "b". The designer is unable to add the switch to the switch system.

Why is this problem occurring?

- A. The switch is not powered.
- B. Revit is not in Edit Switch System mode.

- C. A switch system can contain only one switch.
- **D. The switch's Switch ID parameter does not match the switch system**

**Answer: D**

Explanation:

In Autodesk Revit Electrical Design, lighting control systems such as single-pole, three-way, and four-way switches are managed using Switch Systems. These systems logically connect lighting devices (switches) to the lighting fixtures they control. For multiple switches (like three-way configurations) to be part of the same control circuit, they must share the same Switch ID value.

In the exhibit, the electrical designer is attempting to add a three-way switch to the existing switch system labeled "b", but Revit does not allow it. The reason is that the Switch ID parameter of the new switch does not match the Switch ID of the system it is intended to join.

The Switch ID acts as the unique identifier that links all switches controlling the same group of fixtures. If the IDs differ (for example, "b3" versus "b"), Revit interprets them as belonging to separate systems and prevents them from being grouped together.

The Autodesk Revit MEP User's Guide - Electrical Systems: Lighting and Switch Systems explains this clearly:

"Switch systems are organized by Switch ID. All switches controlling the same lighting circuit must have identical Switch ID values.

Revit will not allow a switch to be added to an existing system if its Switch ID does not match that system's identifier." To fix this, the designer must:

Select the three-way switch.

In the Properties palette, locate the Switch ID parameter.

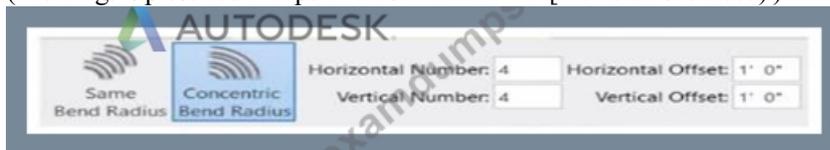
Change its value to match the target switch system's ID (in this case, "b").

Once both switches share the same Switch ID, Revit will successfully include them in the same Switch System.

### NEW QUESTION # 33

Refer to exhibit.

(The Image is presented in Imperial units: 1 In = 25 mm [Metric units rounded].)



What is the electrical designer trying to do as shown in the exhibit?

- A. Array Conduit
- **B. Place Parallel Conduits**
- C. Place Multiple Pipe
- D. Add Cable Tray

**Answer: B**

Explanation:

The exhibit shown in the image is taken directly from the Revit MEP Electrical Systems workspace, specifically from the Parallel Conduits command interface. This dialog box appears when the designer activates the Place Parallel Conduits tool in the Systems tab → Electrical panel → Conduit dropdown → Parallel Conduits.

In this interface, the designer can specify:

Horizontal Number / Offset - defines how many conduits will be created horizontally and their spacing.

Vertical Number / Offset - defines how many conduits will be created vertically and their spacing.

Bend Radius Options:

Same Bend Radius - all conduits use identical bend radii.

Concentric Bend Radius - conduits bend concentrically around a common center point.

According to Autodesk's Revit MEP 2011 User's Guide (Chapter 18, Electrical Systems - Conduit Layout):

"The Parallel Conduits tool allows you to create multiple conduits side-by-side at the same time.

You can specify the number of conduits horizontally and vertically, as well as the offset between them.

You can also define whether bends have the same bend radius or concentric bend radii."

- Revit MEP User's Guide, Electrical Systems, Section: Conduit Layout

This tool is used when electrical designers need to route groups of conduits that run in parallel-such as power and data conduits running between panels or equipment racks.

The Concentric Bend Radius option (as shown in the exhibit) ensures all conduit bends share a common center, which is critical for maintaining uniformity in conduit sweeps and avoiding clashes during coordination.

Therefore:

A . Add Cable Tray - incorrect; the cable tray tool is separate and does not use bend radius options.

C . Array Conduit - incorrect; arraying is a different geometric function not specific to conduit routing.

D . Place Multiple Pipe - incorrect; applies to mechanical piping systems, not electrical conduits.

The display of Concentric Bend Radius, Horizontal Number, Vertical Number, and Offset confirms that the designer is using the Parallel Conduit placement tool.

Verified Reference Extracts from Revit Electrical Design Documentation:

Autodesk Revit MEP User's Guide (2011) - Electrical Systems → Conduit Layout → "Parallel Conduits Tool" description.

Autodesk Revit MEP Training Curriculum - Electrical Module, Exercise 6.3 "Placing Parallel Conduits," which illustrates the same interface for bend radius configuration.

### NEW QUESTION # 34

An electrical designer needs to add spaces to a model displaying the architectural room name and number. What should the designer do before creating the spaces?

- A. Use Transfer Project Standards to Import rooms from the architectural model.
- B. Change the architectural model display settings to By Host View,
- C. **Select Room Bounding from the architectural link's type properties.**
- D. Select Save Positions for the architectural links in the Manage Links dialog.

**Answer: C**

Explanation:

Before placing spaces in an MEP model that should reflect architectural room names and numbers, the linked architectural model must be set to Room Bounding. This ensures that Revit recognizes the architectural walls and room boundaries, allowing the spaces to reference and display room information correctly.

As the Revit MEP documentation explains:

"Turns on the Room Bounding parameter for the linked model. This step ensures that the Revit MEP project recognizes room-bounding elements in the Revit Architecture project."

"The spaces use the room boundaries defined by the Revit Architecture project." Additionally, the section Using Room Boundaries in a Linked Model details the procedure:

"In a plan view of the host project, select the linked model symbol → Click Modify | RVT Links tab > Properties panel > (Type Properties). In the Type Properties dialog, select Room Bounding." Once this setting is enabled, Revit MEP automatically detects the architectural rooms, enabling the designer to place spaces that inherit the architectural room name and number.

### NEW QUESTION # 35

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With the aim of helping aspirants to achieve the Autodesk Certified Professional in Revit for Electrical Design (RVT\_ELEC\_01101) certification, PassExamDumps is committed to providing the best quality and updated Autodesk RVT\_ELEC\_01101 exam dumps. With their authentic and Real RVT\_ELEC\_01101 Exam Questions, you can be confident of passing the Autodesk RVT\_ELEC\_01101 certification exam on the first try.

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