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Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q31-Q36):

NEW QUESTION # 31

Refer to exhibit.

An electrical designer expects the total connected load on the switchboard to be 4000VA. but Revit Indicates a total connected load of 3606VA. What Is the cause of the discrepancy?

- **A. The Motor demand factor is configured to adjust the connected load.**
- B. The connected loads are set to a different voltage than the switchboard.
- C. Load is connected through the switchboard's feed through lugs.
- D. Sum true load and reactive load is selected in Electrical Settings.

Answer: A

Explanation:

In the exhibit, the designer expects the total connected load to equal the sum of the 4 motor loads:

4 motors \times 1000 VA each = 4000 VA expected

However, Revit is showing a Total Connected Load of 3606 VA instead.

This difference occurs because Revit applies Motor Demand Factors automatically when a load classification is set to "Motor."

Demand factors modify the total connected load based on electrical engineering rules.

Revit documentation confirms:

"Assign demand factors to load classifications."

"Demand loads can be shown on panel schedules."

In the exhibit, the Load Classification shows Motor with a Demand Factor of 117.87%, which modifies the connected load values in the switchboard totals.

Revit is therefore calculating the effective connected load based on the applied demand factor, not a simple arithmetic sum. That is why the panel's connected load number \neq 4000 VA.

NEW QUESTION # 32

Refer to exhibit.

A panelboard has the following properties:

The Circuit Naming Scheme PanelSlotPhase, which defines the value of the Circuit Number parameter, is configured as follows:

In electrical settings. Phase Labels have not been modified from the default "A." "B." and "C- The Circuit Number for a single-pole circuit in the panelboard's first breaker position is-----(Enter the correct value into the field)

Answer:

Explanation:

See the explanation

Explanation:

The answer is P1/1/A

In Autodesk Revit Electrical Design, the Circuit Number for a branch circuit in a panelboard is automatically generated based on the Circuit Naming Scheme specified in the project's Electrical Settings. This naming scheme defines how each circuit is labeled by combining predefined fields such as Panel Name, Slot Index, and Phase Label.

From the exhibit, the Circuit Naming Parameter setup is configured as:

Name

Prefix

Sample Value

Suffix

Separator

Panel

Panel

Panel

-

"_"

Slot Index
Slot Index
Slot Index

-
"/"

Phase Label
Phase Label
Phase Label

-

-

The panelboard properties show that its Circuit Naming method is set to PanelSlotPhase, which means that Revit will generate circuit numbers using the following structure:

[Panel Name] - [Slot Index] / [Phase Label]

From the exhibit:

Panel Name: P1

Slot Index (Breaker Position): 1 (since the question refers to the first breaker position) Phase Label: A (default value for the first phase in a three-phase 120/208V Wye system) Therefore, the Circuit Number for a single-pole circuit in the first breaker slot will be:

P1-1/A

This follows Revit's documented logic for circuit naming. According to the Autodesk Revit MEP User's Guide (Chapter 17 "Electrical Systems"):

"The circuit numbering format is controlled by the Electrical Settings > Circuit Naming template. The default scheme combines panel name, circuit number, and phase label, using the separators defined by the user." Furthermore, the Smithsonian Facilities Revit Template User's Guide confirms:

"In the default electrical configuration, circuit numbers use the format [Panel Name]-[Circuit Number]/[Phase], such as 'P1-1/A' for the first single-pole circuit on phase A." Hence, based on the provided configuration and standard electrical setup, the correct circuit number for the first single-pole breaker position in panelboard P1 is P1-1/A.

References:

Autodesk Revit MEP User's Guide - Chapter 17 "Electrical Systems," pp. 420-427 Smithsonian Facilities Revit Template User's Guide - Section 8.6 "Panel Schedules and Circuit Naming Schemes," p. 90 Autodesk Revit Electrical Design Essentials - "Circuit Naming Rules and Panel Configuration Standards"

NEW QUESTION # 33

An electrical designer is working in a workshared project with a team of people. The electrical designer does not want to see the linked architectural model in any of their views. The rest of the team still needs to see the architectural link.

Which process should the electrical designer use?

- A. Manage Links > Select architectural link > Click Remove
- B. Manage Links > Select architectural link > Click Unload For all users
- C. Manage Links > Select architectural link > Click Unload
- D. Manage Links > Select architectural link > Click Unload for me

Answer: D

Explanation:

In Autodesk Revit workshared projects, it is common for teams from multiple disciplines (architecture, structure, MEP) to collaborate using linked Revit models. Sometimes, an electrical designer may wish to hide or unload the linked architectural model only for their local session, without affecting how other team members see it.

Revit provides the "Unload for Me" option specifically for this purpose.

According to the Autodesk Revit MEP User's Guide (Chapter: Worksharing - Managing Linked Models):

"When working in a shared model environment, you can unload a link temporarily from your local file using the Unload for Me command in the Manage Links dialog. This action affects only your local copy and does not impact other users working on the project. The link remains loaded for all other team members." This means that using Manage Links → Select the architectural link → Click Unload for Me, the designer can remove the visual presence of the architectural model from all of their views without impacting the rest of the team. The link remains active in the central model, and other disciplines will continue to see it as usual.

Here's a breakdown of the incorrect options:

B . Remove: Permanently removes the link from the project, affecting all users - not allowed in a team collaboration environment.

C . Unload: Temporarily unloads the link for everyone upon synchronization with the central model.

D . Unload For all users: Explicitly unloads the link globally; all users lose access to the link after the next sync.

Therefore, the correct process for the electrical designer to hide the architectural link only for themselves is:

→ □ Manage Links → Select architectural link → Click "Unload for Me."

References:

Autodesk Revit MEP 2011 User's Guide, Chapter 55: Worksharing - Managing Links, pp. 1342-1344.

Autodesk Revit 2021 Help, "Unload for Me vs. Unload - Managing Links in Workshared Projects." Smithsonian Facilities Revit Template User's Guide (2021), Section 6.3.3 - Worksharing and Link Visibility Controls.

NEW QUESTION # 34

Which feature shows which user created 3n element?

- A. Worksharing display modes
- B. Worksets dialog
- C. Show History
- D. Gray Inactive Worksets

Answer: A

Explanation:

In Autodesk Revit, the Worksharing Display Modes feature allows designers to visually inspect ownership and editing information about elements in a workshared model.

According to the Autodesk Revit MEP User Guide - Chapter 54 "Working in a Team":

"Worksharing Display Modes can be used to visualize the ownership of elements, including which user created or modified them. For example, you can use the Worksharing Display command to show elements by their owner, workset, or checkout status." Thus, this mode identifies which user created or owns an element - making B. Worksharing display modes the correct choice.

Other options:

A . Gray Inactive Worksets: Only shows non-active worksets in gray, not creator info.
C . Show History: Displays synchronization comments, not element ownership.
D . Worksets dialog: Shows ownership of worksets, not individual elements.

NEW QUESTION # 35

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 # 36

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