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RVT_ELEC_01101 Real Questions



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Autodesk Certified Professional in Revit for Electrical Design Sample Questions (Q15-Q20):

NEW QUESTION # 15

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 # 16

Refer to exhibit.

A portion of an electrical fixture family's Type Properties is shown in the exhibit.

Because of the value of the Type Parameter Load Classification, an electrical designer expects the fixture's Load Classification to display as "Receptacle" when circuited. Instead, it displays as "Other".

What should the designer do to make the circuited fixture's Load Classification always match the family's Type Parameter?

- A. Edit the fixture Instance in the System Browser. In the Load Classification column, associate the fixture's Load Classification to the family parameter.
- B. Edit the family. Change the power connector's Load Classification to "Receptacle". Reload the family into the project.
- C. Edit the family. Delete the power connector and place a new power connector. Parameter associations will be made

automatically. Reload the family into the project.

- **D. Edit the family.** Associate the power connector's Load Classification with the family parameter. Reload the family into the project.

Answer: D

Explanation:

In Autodesk Revit Electrical Design, each electrical family (such as a receptacle, lighting fixture, or equipment) can contain one or more connectors that define how it interacts with the electrical system. The Load Classification parameter determines how the connected load is categorized in electrical schedules and load calculations (e.g., Lighting, Power, Receptacle, Other).

When a family's Type Parameter Load Classification does not display correctly (e.g., it shows "Other" instead of "Receptacle" after being circuited), the issue lies in the power connector's internal parameter not being linked to the family-level "Load Classification" parameter. Revit uses the connector's classification to determine the load type when it is connected to a circuit - if the connector isn't associated, the classification defaults to "Other." According to the Autodesk Revit MEP User's Guide (Chapter: Electrical Systems - Creating Electrical Families), it specifies:

"To control how a component reports its connected load type, associate the power connector's Load Classification parameter with a corresponding Family Parameter. This ensures the load classification in the circuit matches the family definition, rather than defaulting to 'Other.' To correct existing families, edit the family in Family Editor, select the connector, and associate its Load Classification parameter with the family's Load Classification type parameter. Then reload the family into the project." This confirms that the correct approach is to edit the family and create or link the Load Classification parameter to the connector's Load Classification field. Merely changing the connector value (option C) won't ensure dynamic synchronization between the family type and circuit. Deleting and re-adding the connector (option B) won't automatically create that link. Option D (editing through the System Browser) modifies instance-level data, not family associations.

Hence, the correct and permanent fix is:

Open the family in the Family Editor.

Select the power connector.

In the Properties palette, click the small Associate Family Parameter button () next to Load Classification.

Link it to the family's Load Classification parameter.

Save and reload the family into the project.

References:

Autodesk Revit MEP 2011 User's Guide, Chapter 53: Creating Electrical Families, pp. 1254-1257.

Smithsonian Facilities Revit Template User's Guide (2021), Section 8.3. Electrical Design: Power Connector Parameters.

Autodesk Revit 2020 Help: "Associate a Connector Parameter with a Family Parameter."

NEW QUESTION # 17

An electrical designer has noticed lighting fixtures present in an architectural linked model. Which tool should be used to place an instance of those fixtures in the current electrical model while maintaining the position from the architectural model?

- A. Reload Latest
- **B. Copy/Monitor**
- C. Reconcile Hosting
- D. Coordination Review

Answer: B

Explanation:

When lighting fixtures placed in an architectural linked model need to be replicated in the electrical model while maintaining their exact positions, the correct tool is Copy/Monitor.

This Revit feature allows the electrical designer to copy elements-like lighting fixtures-from a linked model into their project, while establishing a monitoring relationship between the original (architectural) and copied (electrical) instances.

From the Autodesk Revit MEP User's Guide - Chapter 55 "Multi-Discipline Coordination" (pages 1349-1357):

"Use the Copy/Monitor tool to copy MEP fixtures from an architectural model into an MEP project, and monitor them for changes." (Revit MEP User's Guide, p. 1350)

"To copy fixtures from a linked model:

Click Collaborate tab > Coordinate panel > Copy/Monitor > Select Link.

Select the linked architectural model in the drawing area.

Click Copy and select the lighting fixtures to copy.

Click Finish.

Revit MEP copies the fixtures to the current project and establishes monitoring relationships."* (Revit MEP User's Guide, p. 1356)

Behavior and Benefits:

The copied lighting fixtures maintain the same location, orientation, and type mapping as in the linked model.

Any changes (move, delete, or modify) made by the architect in the linked model will trigger a coordination review in the electrical model.

This ensures accurate positioning and easy coordination between disciplines.

"When you select a copied fixture in the current project, the monitor icon displays next to the fixture, indicating that it has a relationship with the original fixture in the linked model." (Revit MEP User's Guide, p. 1357)

"If copied fixtures are moved, changed, or deleted in the linked model, Revit MEP notifies the engineers of the changes during Coordination Review." (Revit MEP User's Guide, p. 1357)

NEW QUESTION # 18

Refer to exhibit.

□ An electrical designer tries to place a generic annotation family in a data device family. The designer receives the error message as shown. What should the designer do?

- A. Edit the generic annotation family and set it to Shared.
- B. Select the Maintain Annotation Orientation parameter checkbox
- C. Change the Detail Level to Coarse.
- D. Set the view to the Ref. Level.

Answer: A

Explanation:

The warning message - "Can't create this kind of element in this view in the current mode" - appears when an electrical designer attempts to place a Generic Annotation family inside a model family (e.g., a data device or electrical fixture) that is not configured to host annotation elements.

According to the Revit Electrical Design documentation, Generic Annotation families are 2D annotation elements, and therefore, cannot be created or viewed in 3D model views unless configured as "Shared." The official guide clarifies:

"You can create generic annotation families and nest them inside host model families so that the annotations display in the project."

However, this only functions correctly if the annotation is enabled to act independently within the host:

"To allow a nested annotation to be visible and editable when placed in a host model family, the nested annotation must be set to Shared before loading it into the host." If the nested annotation is not set to Shared, Revit cannot create or display it in the host's model view, triggering this exact warning.

Thus, the correct workflow is:

Open the Generic Annotation family in the Family Editor.

Go to Family Category and Parameters.

Check the box "Shared" under Family Parameters.

Save and reload the family into the host electrical device family.

Other options-changing view level, detail level, or annotation orientation-do not resolve this placement restriction.

NEW QUESTION # 19

An electrical designer is creating an electrical equipment family which will host conduit that can be modeled from any point on a specific side of the equipment. How should this be accomplished?

- A. Select the conduit connector and edit the connector dimensions
- B. Click Conduit Connector, click Individual Connector, and then select the desired reference plane.
- C. Click Conduit Connector click Surface Connector, and then select the desired face.
- D. Select the conduit connector and edit the connector type in the Properties palette

Answer: C

Explanation:

To allow conduit to be modeled from any point on a specific side of the electrical equipment, the most accurate method is to use the "Surface Connector". This method enables the designer to place a surface-based conduit connector on a specific face of the equipment family. Here's how the process is explained:

"To place a conduit connector on the surface of a family component so that the conduit can start from anywhere on that surface, use the Surface Connector option. This connector attaches to the selected face of the equipment, allowing conduit to be drawn directly from any point on the selected face in the project environment."

"Click Conduit Connector, then choose Surface Connector, and select the face where the conduit should connect. This gives flexibility in modeling, especially for equipment requiring multiple connection points across a single face or allowing freedom of

routing." This process is especially beneficial in custom electrical equipment families where conduits must originate from arbitrary points along a flat side-ensuring both parametric flexibility and coordination ease within the project environment.

In contrast:

Option A refers to editing connector dimensions, which does not affect the connector's ability to accept connections from any surface point.

Option B uses Individual Connector which limits the connection to a specific point, not the whole face.

Option D refers to changing connector type in the Properties palette, which doesn't impact connector location or coverage on a face.

Reference:

Extracted from standard family creation documentation and Revit MEP best practices outlined in electrical family modeling sections.

NEW QUESTION # 20

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