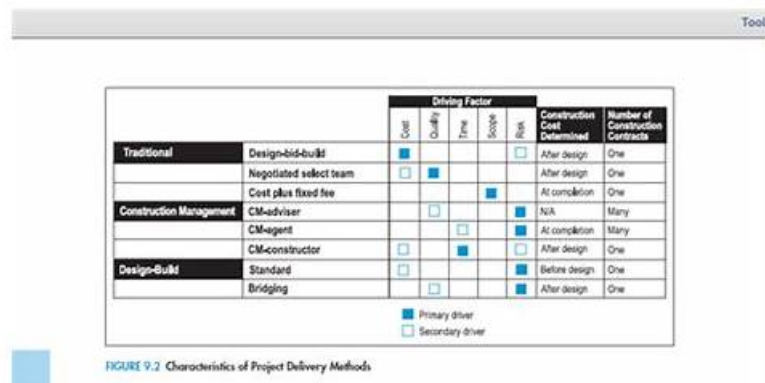


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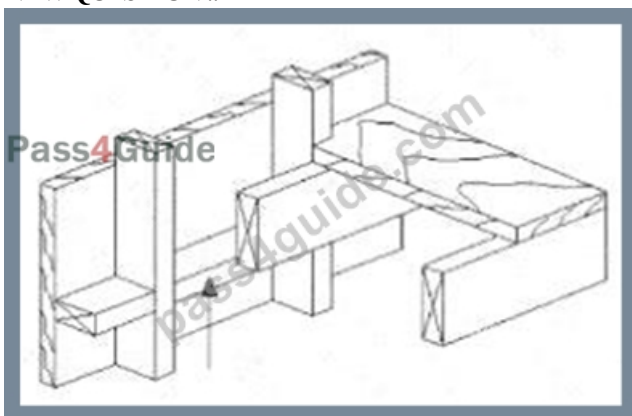
NCARB PDD Exam Syllabus Topics:

Topic	Details
Topic 1	Construction Documentation: This section of the exam measures skills of Project Architects and addresses the creation and management of project documentation. Candidates are expected to demonstrate knowledge of documenting building design and site features, preparing detailed architectural drawings, and applying industry standards to produce a coordinated set of construction documents. The section also includes understanding how project changes impact documentation and how to communicate these updates effectively to both the design team and the client.:
Topic 2	Integration of Building Materials & Systems: This section of the exam measures the skills of Architectural Designers and focuses on the ability to resolve and integrate various building systems into cohesive project goals. It covers analyzing architectural systems and technologies, determining the size of structural, mechanical, electrical, and plumbing systems, and incorporating specialty systems such as acoustics, lighting, security, and communications. It also evaluates the ability to detail how multiple building systems work together and to coordinate across disciplines to achieve a unified design.

Topic 3	Codes & Regulations: This section of the exam measures skills of Building Code Specialists and examines how codes and regulations apply at a detailed level during documentation. Candidates are expected to demonstrate knowledge of compliance with the International Building Code (IBC) as well as other specialty regulations, as well as how to interpret and apply these standards to ensure design and documentation meet legal and safety requirements.
Topic 4	Construction Cost: This section of the exam measures the skills of Construction Managers and focuses on the financial side of project execution. It evaluates the ability to analyze construction cost estimates to confirm that they align with project design intent and budgetary constraints. Although this is the smallest section, it is critical for ensuring projects remain feasible and economically viable.
Topic 5	Project Manual & Specifications: This section of the exam measures the skills of Specifications Writers and emphasizes the importance of developing documentation that goes beyond drawings. Candidates must understand how to identify and prioritize elements needed to prepare, maintain, and refine both the project manual and project specifications. It also assesses the ability to align and coordinate these specifications with the construction documents to ensure consistency and accuracy.

NCARB ARE 5.0 Project Development and Documentation Exam Sample Questions (Q11-Q16):

NEW QUESTION # 11



Refer to the exhibit.

What is the horizontal member indicated by the arrow in the wall-floor assembly?

- A. Lateral shear plate
- B. Girt
- C. Ledger
- D. Fire block

Answer: C

Explanation:

The arrow in the wall-floor assembly indicates a horizontal structural member attached to a wall, used to support the end of a floor joist. This is called a ledger.

Ledger: Typically a dimensional lumber or engineered wood member fastened to a wall that supports floor framing members (joists).

Fire block: Installed to limit fire spread in concealed spaces-often mid-wall or mid-stud cavity, not in this floor-to-wall position.

Girt: A horizontal framing member in a wall, usually in steel-frame or post-frame construction, not in conventional wood framing for floors.

Lateral shear plate: A metal plate for shear transfer, not applicable here.

PDD References:

ARE 5.0 PDD "Structural Systems-Wood framing details"

IBC §2308.4-Floor framing requirements

AWC (American Wood Council) "Wood Frame Construction Manual" Ledger attachment details

NEW QUESTION # 12

An architect has a contract with a local school district to redesign a school reception office to ensure a more efficient interaction between office staff, students, and parents. The following instructions are given to the architect:

- * The renovation scope is limited to the footprint only of the existing reception office.
- * Additional staff is not proposed for the renovated area.
- * The existing ceiling and associated fixtures will be protected from damage during construction.
- * The construction of the renovation must occur during the 10-week summer break.

Which of the following series drawings should be included in the documents set?

- A. Structural
- B. Mechanical
- C. Plumbing
- **D. Electrical**

Answer: D

Explanation:

The scope involves interior renovation of an existing school reception office, limited to the footprint and protecting existing ceiling and fixtures. Additional staff is not proposed, and construction is during a defined 10-week summer break.

Plumbing is unlikely to require new or modified systems unless specified; not mentioned here.

Structural changes are not indicated since footprint remains same and no structural modifications are noted.

Mechanical changes would typically be required if HVAC or ventilation systems are altered, but the ceiling and fixtures (likely including diffusers) must be protected and are presumably left unchanged.

Electrical modifications are common in interior renovations to accommodate lighting, power outlets, communication systems, and potentially security or reception technology updates.

Thus, electrical drawings should be included to cover these updates.

Reference:

NCARB ARE 5.0 Review Manual, Project Development and Documentation, Construction Documents chapter Typical interior renovation scopes often require electrical updates to accommodate new equipment and code compliance.

NEW QUESTION # 13

Before construction documents are complete, the owner requests a review of the timeline allowed for ASIs, RFIs, RFPs, and change orders as defined in the project manual.

Which section of the project manual is relevant to this request?

- **A. Section 01 26 00 Contract Modification Procedures**
- B. Section 01 35 16 Alteration Project Procedures
- C. Supplementary Conditions
- D. AIA Document A201

Answer: A

Explanation:

The owner's request for review of ASIs (Architect's Supplemental Instructions), RFIs (Requests for Information), RFPs (Requests for Proposals), and change orders relates to contract modifications.

Section 01 26 00 in the project manual typically covers Contract Modification Procedures, including timelines and processes for handling these changes.

AIA Document A201 is the general conditions but does not detail specific timelines.

Supplementary Conditions modify A201 but usually don't detail these timelines.

Section 01 35 16 is specific to alteration projects, not general contract mod procedures.

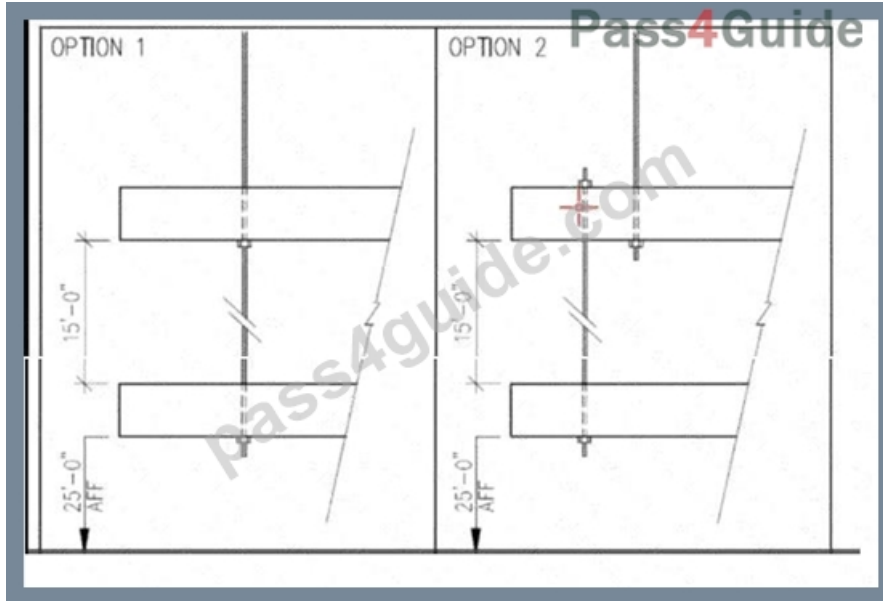
Reference:

NCARB ARE 5.0 Review Manual, Project Management chapter
CSI MasterFormat and project manual organization guides

NEW QUESTION # 14

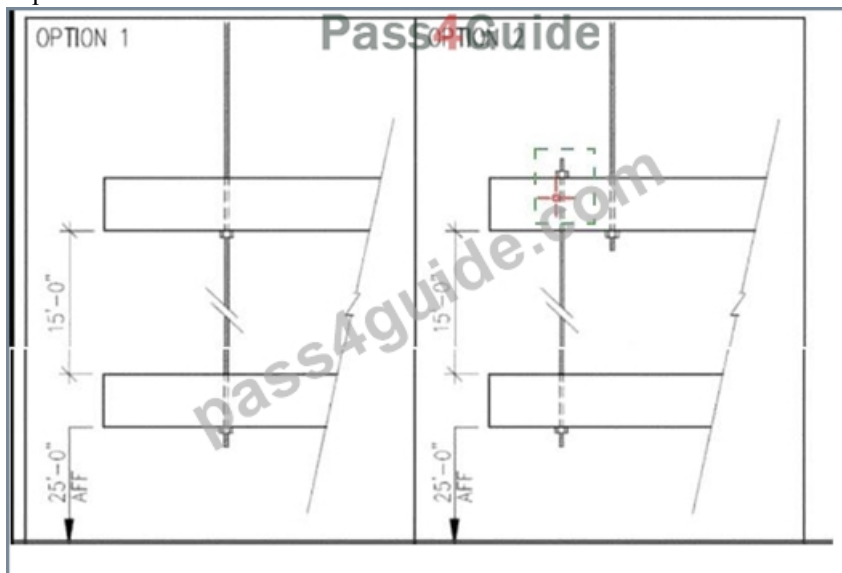
Option 1 is the originally designed connection detail for a banner hanging system of steel tube beams and threaded rods in a high atrium space. The threaded rod connections to the structure are fabricated as part of the structure. The remaining members are field fabricated. The weights of beam and banner are identical at each level. Option 2 has been proposed to alleviate constructability

issues. The structural ramifications must be evaluated before this change can be approved. Click on the nut in option 2 that will realize a greater load due to the proposed change.



Answer:

Explanation:



Explanation:

The upper nut at the top connection in Option 2 (the nut above the upper tube beam, highlighted at left).

By moving the threaded rod off the member's centroid in Option 2, the connection becomes eccentric. That eccentricity introduces a prying/bending moment at the rod/beam interface in addition to the vertical load from the banner and beam. In a through-rod with a nut above and below the member, the bottom nut primarily resists the direct gravity load in the concentric case (Option 1). When eccentricity is added (Option

2), rotation of the member about the rod induces additional uplift on the top nut (prying action), thereby increasing the force in the top nut relative to the concentric case.

Hence, the nut that will realize the greater load due to the proposed change is the upper nut at the top connection.

References

- * NCARB ARE 5.0 PDD Handbook - Structural Systems & Detailing: Connections and eccentric loading.
- * AISC Steel Design Guide: Prying Action in Bolted Connections (eccentric connections increase tensile force on the "prying" fastener).
- * Ching, Building Construction Illustrated - Steel connections and load paths.

NEW QUESTION # 15

During an analysis of an existing sanitary sewer crossing a proposed building site, it was determined that the outflow invert at one

manhole was 120 feet and the inflow invert at the next manhole, which is 200 feet downstream, was 117 feet. What is the percentage of slope between the two manholes?

- A. 1.5%
- B. 2%
- C. 3%

Answer: A

Explanation:

The slope between two manholes is calculated by the formula:

$$\text{slope} = \frac{\text{elevation difference}}{\text{horizontal distance}} \times 100\%$$

Given:

- Outflow invert = 120 ft
- Inflow invert = 117 ft
- Horizontal distance = 200 ft

Calculate elevation difference:

$$120 - 117 = 3 \text{ ft}$$

Calculate slope:

$$\frac{3 \text{ ft}}{200 \text{ ft}} \times 100\% = 1.5\%$$

Reference:

NCARB ARE 5.0 Review Manual, Site Design and Civil Engineering chapter
Sanitary sewer design principles and slope requirements

NEW QUESTION # 16

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