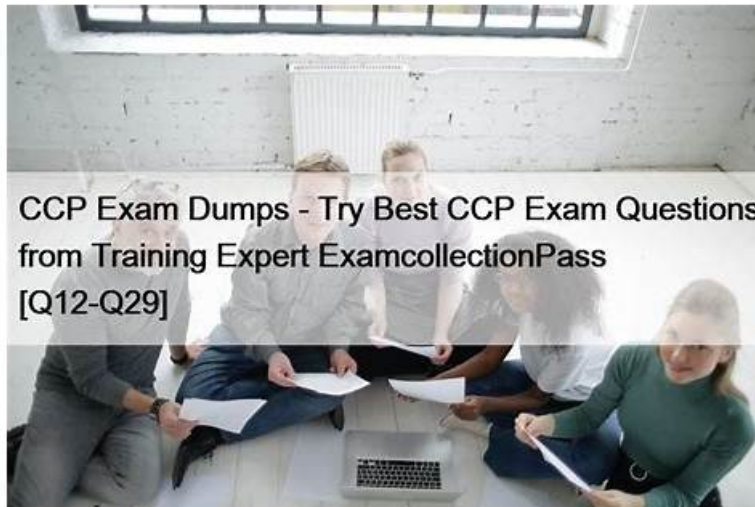


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NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q71-Q76):

NEW QUESTION # 71

An architect has just received client approval of the Schematic Design documents for a three-story, outpatient medical clinic. The clinic is located within a mixed-use development governed by a City-approved Planned Development (PD) document. The medical clinic design utilizes standardized departmental layouts and includes outpatient clinics, as well as treatment spaces, administrative spaces and public/lobby spaces.

The site needs to accommodate four different vehicular traffic flows: patient traffic, staff traffic, service and delivery traffic, and emergency services traffic. In addition, a pedestrian plaza must connect to the mixed-use development sidewalks. The plaza must

provide space for bicycle parking and will serve as the future bus stop.

The site design addresses several challenges related to building orientation. The southeast facade, with excellent visibility from the highway, is the location of all service equipment. The building entrance faces northwest, convenient to the parking but not visible from the highway.

The client believes future patient volumes will outgrow the clinic. The PD document allows for a planned Phase 2 development on the adjacent vacant site to the southwest. Phase 2 would include a second building (2 story, 80,000 BGSF) and/or a parking deck. Other considerations for the project include:

- * Protected tree requirements are defined in the PD document.
- * Easy pedestrian access must be provided from Sycamore Boulevard.
- * All required parking for the clinic must be accommodated on site.
- * Programmed area includes 109,450 Departmental Gross Square Feet (DGSF) / 130,184 Building Gross Square Feet (BGSF).
- * Exterior material percentages are dictated by the PD document and shall not exceed specific percentages for Primary and Secondary Finishes.
- * All service equipment needs to be screened; see PD document for restrictions.
- * Signage opportunities are important to the client.
- * Acoustical privacy is a concern of the healthcare system.

The following resources are available for your reference:

- * Drawings, including a perspective, plans, and exterior elevations
- * Building Program, including client's departmental program and detailed program for Treatment 01 (Infusion)
- * Exterior Material Cost Comparisons
- * Planned Development Document
- * IBC Excerpts, showing relevant code sections
- * ADA Excerpts, showing relevant sections from the ADA Standards for Accessible Design During the city planning review process, the city planner discovers that two of the building elevations deviate from the building design requirements set forth in the Planned Development Document. The owner is granted a variance for only one of the non-compliant facades. The facade must face the Pedestrian Access Easement.

- A. Southwest Elevation
- B. Southeast Elevation
- C. Northwest Elevation
- D. Northeast Elevation

Answer: C

Explanation:

The northwest elevation faces the Pedestrian Access Easement as per site and plan documents.

Variations for facade non-compliance are typically granted where they impact the pedestrian experience.

Therefore, the facade requiring the variance must face this easement to comply with PD and planning conditions.

The other elevations (A, C, D) do not face the pedestrian access and thus do not qualify.

References:

Planned Development Document

City Planning Review Documentation

ARE 5.0 PPD - Codes and Regulations, Planned Developments

NEW QUESTION # 72

A new four-story apartment building is being designed on a site that has solid bedrock subsurface conditions.

The client requested the lowest cost of installation, highest energy efficiency, the shortest round trip time, and minimized loss of usable building space.

Which elevator type should the architect recommend?

- A. Conventional hydraulic elevator
- B. Machine-roomless elevator
- C. Dual jack hole-less hydraulic elevator
- D. Gearless traction elevator

Answer: B

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Given the constraints:

Lowest cost of installation and minimized loss of usable space favor elevators that don't require a separate machine room. Machine-roomless elevators (D) have compact machinery integrated within the hoistway, reducing space needs and construction costs.

Hydraulic elevators (A, C) require pits and often larger machine rooms, and are less energy efficient and have slower round trip times compared to traction types.

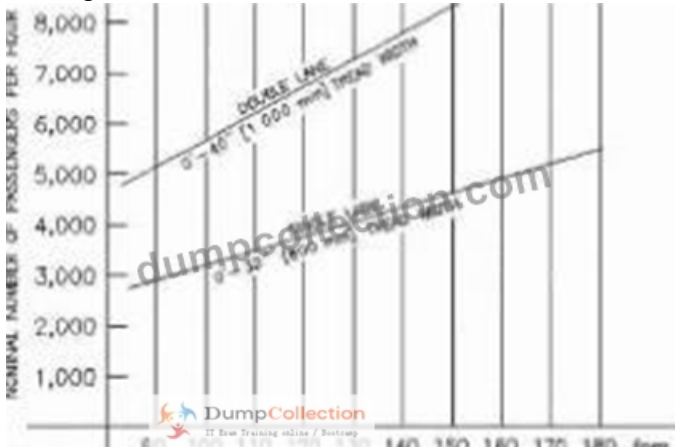
Gearless traction elevators (B) provide excellent speed and efficiency but usually require machine rooms, increasing cost and space. Thus, machine-roomless elevators balance cost, efficiency, space, and speed best for mid-rise residential buildings.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Vertical Transportation

The Architect's Handbook of Professional Practice, 15th Edition - Elevators and Conveying Systems

NEW QUESTION # 73



Refer to the exhibit (graph of moving walkway speed vs. nominal passengers per hour).

Based on the graphic shown, which of the following moving walkway speeds will deliver 4,500 passengers per hour utilizing a single lane?

- A. 110 ft per minute
- B. 150 ft per minute
- C. 170 ft per minute
- D. 130 ft per minute

Answer: B

Explanation:

The graph plots moving walkway speeds (feet per minute) on the horizontal axis against the nominal number of passengers per hour on the vertical axis. The curve labeled "Single Lane (90 cm tread width)" shows the passenger capacity for different speeds of a single moving walkway lane.

* For a nominal passenger flow of 4,500 passengers per hour on a single lane, trace horizontally from 4,500 on the vertical axis to intersect the single lane curve.

* The intersection corresponds approximately to a speed of 150 feet per minute (fpm).

* Speeds lower than 150 fpm (e.g., 110 or 130 fpm) correspond to lower passenger capacities (below 4,500), while 170 fpm exceeds 4,500 capacity.

This data is important for architects and planners to size and specify moving walkways in transit terminals, airports, or large public buildings to maintain efficient flow and minimize congestion.

According to NCARB's ARE Project Planning & Design guidelines, understanding capacity and circulation rates for building systems such as moving walkways is essential for designing efficient pedestrian movement and circulation within complex buildings.

References:

ARE 5.0 Project Planning & Design Content Outline: Environmental Conditions and Context - Circulation and Transit Systems

Black Spectacles ARE Study Materials: Moving Walkways and Passenger Flow Rates The Architect's Handbook of Professional Practice, 15th Edition, Chapter 7: Circulation and Accessibility

NEW QUESTION # 74

A one-story residence in a dry climate with cold winter nights is designed with an unconditioned dirt floor crawlspace utilizing underfloor plumbing and HVAC ductwork. The owner is interested in using a concrete slab-on-grade floor instead of the pier-and-

beam concrete floor over an open crawlspace as originally designed.

What are the impacts of changing the design to a slab-on-grade floor system? Check the two that apply.

- A. It will have warmer floors in the evenings.
- B. It will have more steel reinforcing.
- C. It will allow for HVAC ductwork installation.
- D. It will allow for better moisture control.
- E. It will limit future plumbing flexibility.
- F. It will limit the types of flooring finishes available.

Answer: A,E

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Changing from a pier-and-beam system with an open crawlspace to a slab-on-grade floor has several impacts:

Warmer floors in the evenings (A): Concrete slab-on-grade floors have high thermal mass, which can absorb heat during the day and release it slowly, resulting in warmer floors at night, particularly beneficial in cold climates.

Limited future plumbing flexibility (C): Plumbing embedded in or beneath slabs is difficult to access or modify after construction, unlike crawlspaces that provide easier access to underfloor plumbing for repairs or modifications.

More steel reinforcing (B): While slabs do require reinforcement, this is often comparable or less than the framing required for pier-and-beam floors, so this is not necessarily an impact.

Flooring finishes (D): Slab floors can accommodate many finishes; thus, limitations are generally minimal.

Better moisture control (E): Slabs require moisture barriers and careful detailing to control moisture; crawlspaces can sometimes be easier to ventilate but may allow moisture intrusion if not properly designed.

HVAC ductwork installation (F): Crawlspaces allow ducts to be located under the floor; slabs typically require ducts to be placed above or within conditioned spaces.

Thus, the most significant impacts are warmer floors and reduced plumbing flexibility.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Foundations and Floors

The Architect's Handbook of Professional Practice, 15th Edition - Building Construction Systems

NEW QUESTION # 75

Which of the following roofing types is the most appropriate for installation during below-freezing weather conditions on a roof with less than a 2:12 slope?

- A. A ballasted EPDM roof
- B. A self-sealing shingle roof
- C. A cold-tar built-up roof

Answer: A

Explanation:

Comprehensive and Detailed Explanation From Exact Extract:

Low-slope roofs (< 2:12) require roofing materials suitable for flat or nearly flat conditions:

Cold-tar built-up roofs (A) are difficult to install in freezing weather because the tar cannot be applied or cured properly in cold temperatures.

Self-sealing shingles (B) are generally used on steeper slopes and depend on heat to activate the sealing strips, making them unsuitable for low slopes and cold weather.

Ballasted EPDM (C) is a single-ply synthetic rubber membrane that can be installed in a variety of weather conditions, including below-freezing temperatures. The ballast (usually gravel) holds the membrane in place on low slopes and does not rely on adhesives or heat curing.

Therefore, ballasted EPDM is the most appropriate.

References:

ARE 5.0 PPD - Building Systems and Assemblies, Roofing Materials and Systems The Architect's Handbook of Professional Practice, 15th Edition - Roofing

NEW QUESTION # 76

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