Reliable Project-Planning-Design Study Plan, Project-Planning-Design Valuable Feedback

Daily Study Planner

Studies Planner

Date: August 6

WAKE UP AT	SLEEP AT
6:00 AM	10:00 PM
HOURS TO STUDY	
PLANNED	8 hours
ACTUAL	10 hours
TIMETABLE	
6:00	Preparation
7:00	Breakfast, Shower
8:00	Data Analytics
9:00	Data Analytics
10:00	Break
11:00	Data Analytics
12:00	Lunch
13:00	Complete Business Reports
14:00	Complete Business Reports
15:00	Complete Business Reports
16:00	Break
17:00	Study Social Entrepreneurship
18:00	Study Social Entrepreneurship
19:00	Dinner
20:00	Study Operation Optimization
21:00	Study Operation Optimization
22:00	Rest

TODAY'S SUBJECTS
1. Data Analytics
2. Business
3. Social Entrepreneurship
4. Operation Optimization
DEADLINES
1. Data Findings, August 7
2. Business Reports, August 8
3. Social Entrepreneurship Output, August 10
4. Recommendation Paper, August 10
5. Proposal for Operation Optimization, August 12
GOALS
1. Complete sorting data from last week
2. Analyze data
3. Form conclusions and recommendations
4. Finish 3 business reports
5. Complete the social entrepreneurship output
6. Make an outline for the operation optimization proposal
STUDY PROGRESS
1. Done organizing and analyzing data
2. Finished 2 out of 3 business reports
3. Half-way through the social entrepreneurship output
4. Finished writing outlines for the proposal

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NCARB Project-Planning-Design Exam Syllabus Topics:

Topic	Details
Topic 1	• Project Costs & Budgeting: This section of the exam measures skills of architectural designers and assesses the ability to evaluate design alternatives based on program goals, perform cost evaluations, and manage cost considerations throughout the design process.
Topic 2	• Codes & Regulations: This section of the exam measures the skills of project architects and focuses on applying zoning laws, environmental rules, and building codes during the planning stage. Candidates are tested on how to integrate multiple regulatory requirements into a project's design effectively.
Topic 3	• Building Systems, Materials, & Assemblies: This section of the exam measures skills of architectural designers and covers the understanding of building systems such as mechanical, electrical, and plumbing, along with structural and specialty systems. It also involves selecting appropriate materials and assemblies to align with program needs, budgets, and regulations.
Topic 4	• Environmental Conditions & Context: This section of the exam measures skills of architectural designers and covers how to use site analysis information to determine building placement and environmental planning decisions. It emphasizes applying sustainable principles and considering the neighborhood context to guide project design.
Topic 5	• Project Integration of Program & Systems: This section of the exam measures skills of project architects and focuses on integrating decisions about environmental conditions, codes, and building systems into one cohesive project design. It highlights how to configure the building and incorporate both program requirements and contextual conditions in a unified design approach.

NCARB ARE 5.0 Project Planning & Design (PPD) Sample Questions (Q51-Q56):

NEW QUESTION # 51
A 100,000-square-foot distribution warehouse has roof drains around the perimeter.
Which combination of structure and roofing system insulation is most cost effective?

- A. Sloped open web joists with rigid insulation
- B. Level open web joists with tapered rigid insulation
- C. Level rigid frame with tapered rigid insulation
- D. Sloped rigid frame with rigid insulation

Answer: B

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Open web joists allow longer spans and reduce steel use, lowering structure costs.
Level roofs with tapered rigid insulation direct water toward drains without requiring sloping of the structure, reducing structural complexity and cost.
Sloped structures (B, D) require more framing and labor.
Tapered insulation effectively provides slope for drainage on a flat roof.
Therefore, level open web joists with tapered rigid insulation provide the best cost-efficiency.
References:
ARE 5.0 PPD - Building Systems and Assemblies, Roof Systems
The Architect's Handbook of Professional Practice, 15th Edition - Roof Design

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NEW QUESTION # 52

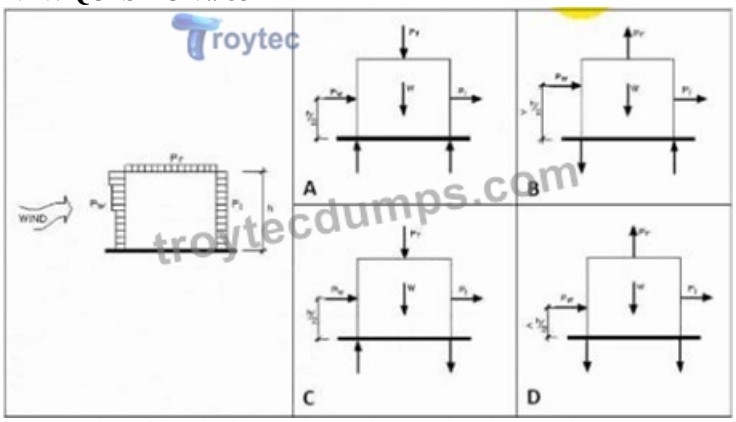
The rehabilitation of a warehouse for a commercial occupancy has a heavy anticipated electrical distribution load and it is expected that the current of the electrical system will be expanded in the near future.
The least expensive and most flexible electrical distribution system would be comprised of which one of the following?

- A. Paralleled sets of copper wire in conduits
- B. Single large aluminum or copper conductor
- C. Paralleled sets of aluminum wire in conduits
- D. Aluminum or copper bus duct with tap boxes

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
Bus duct systems with tap boxes offer modular, flexible electrical distribution capable of handling high loads and allowing easy future expansions with minimal disruption and cost.
Paralleled wires (A, B) increase complexity and are less flexible.
Single large conductors (C) are limited in expansion.
Bus ducts optimize installation speed, scalability, and cost in commercial building retrofits.
References:
ARE 5.0 PPD - Building Systems and Assemblies, Electrical Systems
The Architect's Handbook of Professional Practice, 15th Edition - Electrical Distribution

NEW QUESTION # 53



Refer to the exhibit (building subjected to wind with force diagrams A, B, C, D).
Which of the force diagrams shown correctly represents the resultant wind forces causing an overturning effect on the building and the forces that resist this overturning effect? (Direction and point of application of forces are to be considered; magnitude of forces is not.)

- A. A
- B. B
- C. D
- D. C

Answer: A

Explanation:
The diagram shows a building exposed to wind loading, which causes lateral pressure (P_w) on the windward wall and suction (negative pressure) on the leeward wall, generating an overturning moment about the base of the building.
* Diagram A correctly shows:
* The wind pressure (P_w) pushing on the windward wall, producing a lateral force applied at approximately two-thirds the building height (h), which tends to overturn the building.
* The wind suction (P_l) pulling on the leeward wall, acting in the opposite direction but also contributing to the overturning moment.
* The reaction forces at the base resist this overturning: an uplift force (negative vertical reaction) on the windward side and a downward force on the leeward side, counterbalancing the moment.
* Diagrams B, C, and D incorrectly orient or place the forces or reactions, failing to accurately depict the overturning moment and the corresponding resisting forces.
NCARB ARE 5.0 PPD guidelines on environmental conditions emphasize understanding wind load effects, including lateral pressures, suction, overturning moments, and foundation reactions essential for structural design and safety.

References:
ARE 5.0 Project Planning & Design Content Outline: Environmental Conditions and Context - Wind Loads and Structural Response ASCE 7-16: Minimum Design Loads for Buildings and Other Structures (Wind Load Provisions) The Architect's Handbook of Professional Practice, 15th Edition, Chapter 13: Building Codes, Standards, and Regulations

NEW QUESTION # 54
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 The architect and civil engineer are coordinating the design of the proposed pedestrian plaza fronting along Sycamore Boulevard and reviewing estimates for the cost of street trees. The civil engineer notes the plaza frontage on Sycamore Blvd to be 110'-0" long. Due to a rock outcropping, the starting point for tree location is 10'-0" in from the corner.
The landscape regulations of the planned development and the street tree cost estimates are as follows:
* 'Cathedral' Live Oak: $250 per tree
* Allee Elm: $200 per tree
* American Holly: $125 per tree
What is the minimum cost for street trees along the frontage described?

- A. $1,000
- B. $2,000
- C. $1,600

Answer: C

Explanation:
To calculate the minimum cost:
Determine tree spacing and number of trees:
Frontage length = 110 ft
Start point 10 ft from corner # effective length for tree planting = 110 ft - 10 ft = 100 ft Assuming typical street tree spacing of about 20 ft:
Number of trees = 100 ft / 20 ft spacing + 1 = 5 + 1 = 6 trees (including start and end) But since it starts at 10 ft, actual trees = floor(100 / 20) + 1 = 6 trees Select the least costly tree to minimize cost:
American Holly at $125 per tree is the least expensive.
Calculate total cost:

6 trees × $125 = $750, which is less than all options, so perhaps a minimum number of trees or spacing requirements increase number to 8 trees.
Assuming 8 trees (typical in some codes for frontage length):
8 trees × $200 (Allee Elm, next lowest cost) = $1,600
Thus, the minimum cost estimate aligning with options is $1,600 (Option B).
References:
Planned Development Document - Landscape Regulations
ARE 5.0 PPD - Environmental Conditions and Context, Landscape Design

NEW QUESTION # 55
An elementary school requires a renovation, selective demolition, and a major addition in order to accommodate a growing student population. An architectural firm has prepared schematic design plans incorporating the school's increased programmatic needs, including an enlarged library, cafeteria, and gymnasium; a secure courtyard; and additional space for administrative offices and classrooms. The main entrance was relocated in order to improve the traffic and pedestrian flow at the beginning and end of the school day, and additional parking was provided to comply with current zoning requirements.
The existing single-story masonry building was built in 1950. Two small additions were built later: the north addition will be kept and repurposed, but the south addition will be demolished. The building contains asbestos and lead in roof soffits, floor tiles, pipe insulation, and window paint. All existing mechanical systems need to be replaced; new systems have not been selected.
Considerations for the renovation include:
* The relocated front entrance must be easily recognizable, highly visible, and secure.
* Interior and exterior materials need to be durable and maintainable in order to withstand frequent student abuse, but also economical due to strict budget limitations.
* Good indoor air quality and increased energy efficiency are priorities for the selection of mechanical equipment.
After completion, the entire school should look uniform, without a distinctive difference between the existing building and new addition.
Building information:
* Construction Type is II-B.
The following resources are available for your reference:
* Existing Plans, including site and floor plans
* Proposed Plans, including site and floor plans
* Cost Analysis
* Zoning Ordinance Excerpts, for off-street parking requirements
* IBC Excerpts, showing relevant code sections
* ADA Standards Excerpts, showing relevant sections from the ADA Standards for Accessible Design

- A. 1st Grade Classrooms
- B. 3rd Grade Classrooms
- C. 5th Grade Classrooms
- D. Kindergarten Classrooms

Answer: D

Explanation:
Comprehensive and Detailed Explanation From Exact Extract:
According to IBC and egress requirements, kindergarten classrooms often have more stringent egress requirements than higher grades due to the younger occupant population, who require faster and easier exit options in emergencies. This often translates into requirements for additional or wider exit doors to ensure safe, quick evacuation.
Older grades (1st, 3rd, 5th) typically have less restrictive egress door requirements.
Code mandates consider occupant age and ability to evacuate efficiently.
Thus, kindergarten classrooms should be flagged for additional doors if not already provided.
References:
IBC Chapter 10 - Means of Egress, Occupant Load and Egress Requirements ADA Standards for Accessible Design ARE 5.0 PPD - Codes and Regulations

NEW QUESTION # 56
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