



# ARE LIVE: NAVIGATING THE CASE STUDIES

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▶ 1.

*How many drinking fountains are required in the building design? (Assume that the building is 40,000 sf gross area)*

- a. 1 drinking fountain*
- b. 4 drinking fountains*
- c. There is no requirement for drinking fountains in business occupancies*
- d. 2.5, rounded up to 3 drinking fountains*

▶ 2.

*Which of the following structures / spans are most likely?*

- a. Concrete joist pan construction with 18' spans*
- b. Structural steel wide flange framing plan with 35' spans*
- c. Open web steel joists spanning 65' to masonry bearing walls*
- d. 2x12's at 16" o.c. with 24' spans*

▶ 3.

*What hourly fire rating will be required for non-bearing partitions in the interior portion of the building (excluding demising walls)?*

▶ 4.

*In a fire emergency panic, how many rated stairwells are there required to be found in the floor plan to get people to safety?*

- a. 1 is required*
- b. 2 are required*
- c. 3 are required*
- d. 4 are required*

▷ 5.

*Which of the following are likely to be part of the project (choose 3)?*

- a. Shallow floor plates to allow most spaces to have close access to operable windows*
- b. Vinyl window systems since they have the best R-values*
- c. Sun shading devices to allow maximum daylight and solar gain in the winter, but control the amount of solar gain in the summer*
- d. No elevators to encourage active healthy use of the stairs*
- e. Heavy timber construction*
- f. Green roof for storm-water control and garden amenity for office use*

▶ 6.

*Where will the vapor barrier be located?*

- a. Just below the siding material*
- b. On the cold side of the insulation*
- c. Just inside the interior finish material*
- d. There is no vapor barrier in commercial buildings*

▶ 7.

*Which of the following are most likely to be included on the site plan, landscaping plan and civil drawings?*

- a. Encapsulation details of the oil tank*
- b. A parking lot for 90 cars*
- c. A line of deciduous trees for wind control*
- d. Storm-water runoff systems*

▶ 8.

*Which of the following will likely be included in the fenestration system? (Choose 3 that apply)*

- a. Low e coating on surface 1 (of double glazed windows) on the south side*
- b. Reflective sills and horizontal mullions to reflect light deep into the office space*
- c. Low e coating on surface 2 (of a double glazed windows) on the SE side*
- d. Low e coating on one of the double glazed window surfaces on the north side*
- e. Window system with a high U value*
- f. Laminated glass at all skylight locations*

▷ 9.

*Standpipe access will be where:*

- a. East side of the site*
- b. Typical cleanouts will be at each direction change*
- c. Facing the sidewalk*
- d. Rooftop connection to the RTU*

▶ 10.

*Given the environmental concerns on the site, you the architect should recommend that the owner do which of the following?*

- a. Remove the first 3' of contaminated soil and follow the Phase One recommendations*
- b. Get a Phase 2 Environmental Report*
- c. Remove the found asbestos, lead, and underground oil tank*
- d. Encapsulate the site with concrete pad and prepare for testing*

▶ 11.

*What is the FAR and approximate allowable buildable area for this site and occupancy and is this enough to meet the needs of the client?*

- a. FAR = 2.2, Approx. Allowable Buildable Area = 44,000 sf, yes, meets needs*
- b. FAR = 5, Approx. Allowable Buildable Area = 50,000 sf, no, does not meet needs*
- c. FAR = 3, Approx. Allowable Buildable Area = 60,000 sf, yes, meets needs*
- d. FAR = 3.5, Approx. Allowable Buildable Area = 70,000 sf, yes, meets needs*

# THANK YOU!

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