Architectural Design

Design Problem 2024

Background

"Family" is a critical word to generations of people across America. A home is always an important aspect of establishing a family. An even more special place where family memories can be made is an amazing vacation home. Enjoying the features of a home on a river, lake, or stream is even more special. The best solutions will display considerations that reflect planning for at least two or three generations.

Challenge
(Design Considerations and Constraints)

The 2024 design problem is to design a vacation home for a family (minimum of 6 people) that is located on a river, lake, or stream.

1. Conduct research on the homes that are on a river, lake, or stream.

2. Select and identify the location for a vacation home and incorporate the necessary building codes and materials available in the immediate area.

3. The design must include, as a minimum, an open floor plan with a main living area, kitchen facilities, a pantry, and dining space for a minimum of six.

4. The solution must include a primary bedroom with a walk-in closet and a private bathroom with both a shower and a bathtub. The design must include at least two additional bedrooms that each have a walk-in closet and a bathroom with a shower.

5. A necessary portion of the home must be ADA compliant to accommodate elderly or disabled family members (for at least two or more members of the family).

6. The design may include one appropriate-sized deck/porch that could serve for enjoyment and entertainment.

7. Additional features can be included for utilizing the environment around the home and necessary storage.

8. The solution can be near the water or even over the water. The solution should incorporate the connection between the water and the home.

9. The finished design can be one or two floors and must be contained on one acre of land.

10. A maximum of 24"x24" site board must be used for submitting the model.