

IDEA Architectural Design Competition 2023

Introduction

The client is looking for an architectural firm to take on this job. You own and operate a small architectural firm with two other partners. All three of you have recently passed your licensure exam and are excited to create a proposal for your firm's first potential client. Your potential client is a couple who seek to purchase a waterfront property. This couple is your Uncle Ray and Aunt Jessica. As they are soon to retire, they are hoping you can design them a home that they can live in year-round. The client who will be taking possession of the finish project upon completion has many activities that will need to be considered when creating your final design. The interior will be finished according to your clients' specifications. Energy efficient design and features should be incorporated into your solution. Green technologies are desired but must be considered into the overall project budget. All changes and modifications should be calculated into your proposed budget to be shared with judges. The charrette is based around the client's needs, the functionality, practicality, and the aesthetics of the project, both inside and outside. The client wants the project to include spaces for work, entertaining, hobby activities, and solitude.

A summary of the desired spaces is listed below:

- A "Barndominium" style home is their preferred style. You are to research this style of home as it is gaining popularity.
- 1 Story main living area with a loft or bonus room
- Use of the client's sketches and dimensions- if any, will be used
- It will be 2300-2750 SQFT in size and built on a slab with required footings according to code.
- Living, Sleeping, and Service areas must be provided
- Open concept with all hard surface flooring- no carpeted areas
- Kitchen/Great room area that has a cathedral ceiling with a pantry
- Kitchen: Side by side fridge/freezer, deep sinks, electric or natural gas oven/stove with exhaust
- Laundry room
- Bedrooms = 3, MBR with walk-in closet and ensuite
- Bathrooms = 2-1/2, this includes the MBA/ensuite, plus a 1/2 bath in the shop area
- Garage/Shop area that will be 42' X 60' with 12-1/2' ceilings to allow for a car lift, at least 1 RV door, 1- 2 car or 2-1 car doors, an entry door, and 1- access door in the rear for outdoor equipment entry. This area may be directly connected to the house or attached with a breezeway.
- Wrap around porch on 3 sides- minimum depth of 10', this should connect to a covered 20' x 20' pavilion area.

- 2 x 6 insulated walls – super insulated
- Exterior materials and appearance should blend into the surroundings.
- Dog-friendly
- Electricity and gas are provided to the home site by the local utility provider.
- Water will be provided by an on-site well.
- Waste water disposal will be handled by an on-site septic system
- A back up gas generator must be incorporated into the solution.

Site plan:

- See pictures below
- The site according to the picture below.
- Maximum design envelope justified by your team
- Large trees are located near your proposed build site and should be taken into consideration.

Procedure

Your firm will focus on completing a presentation board and model to present and sell your firm's architectural design to the client. Upon arrival to the IDEA competition, all members of the firm should come prepared to give a presentation of their plan in front of judges. Your firm should arrive to the competition with the presentation board and model made ahead of time. The presentation board should include:

- Title
- Renderings
- Site Plan
- Exterior Elevations
- Floor Plans
- Any additional views, renderings, or text to communicate the design
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A key component to a successful presentation board is to clearly illustrate the functionality and practicality of your design through your documentation and the layout.

Constraints

- The design must include the client's desired spaces listed above.
- Your presentation board must include the elements listed above.
- Your presentation board must be typical tri-fold in size, and can be landscape or portrait orientated.
- All three members from your firm must be in attendance to present your board to the judges.

Other documentation:

To be considered for an interview a resume and a business card must be presented to the judges.

Judging Criteria

Judges will rate the following criteria based off of information learned through the visuals on the presentation boards and the presentations themselves.

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| 1. Aesthetic Quality and Clarity of Board | 20% |
| 2. Quality and Clarity of Presentation | 20% |
| 3. Functionality and Practicality of Design | 20% |
| 4. Meeting of Program Deliverable Requirements | 15% |
| 5. Technical Quality of Architectural Drawings | 10% |
| 6. Use of Site | 5% |
| 7. Model | 5% |
| 8. Resume & Business Card | 5% |

Each category above will be rated on a scale of zero (poor) to a maximum of 20 (excellent).

Sample “Barndominium” ideas from your client



Site Plan:

It is an irregular shaped lot that borders a creek and woods. Your client will share a bridge and entry drive with their neighbor. The drive will split off to your client's project and will be a gravel drive until the last 40' approach/drive which will be concrete. Green rectangle represents general location of the home. Yellow lines represent the drive approach.

