



## 48<sup>th</sup> (2015) ANNUAL DESIGN DRAFTING CONTEST ATTACHMENT B-ARES (BEGINNER)

Your boss has just given you a single line schematic drawing of a home. He is doing this project as a favor for his landscaper who just finished helping him re-landscape his backyard. Since this will be a “free-be”, your boss has asked that this get done ASAP. The floor plan sketch came from a napkin that your boss and the landscaper designed over a couple of cups of coffee. Your employer knows he can count on you to get the job done, and done right.

He needs construction documents that will allow the owner to pull a permit for the structure. The minimal requirements are a plot plan, dimensioned floor plans for both floors, four exterior elevations, typical wall section, and an interior elevation detail. These drawings need to be complete with dimensions and annotations.

### **General Information**

- Use good CAD production techniques.
- Utilize drawing layout wisely. **You are allowed a maximum of (FIVE) saved PDF sheets.**
- Dimensioning, general text, and notes shall have a plotted height of 1/8”.
- Other text (i.e. titles, room names) may be a height of your choice, but must be legible and appropriately sized using architectural conventions.
- Include a title and scale for each drawing on the sheet. Include a North arrow where appropriate.
- Use the ADDA Architectural Sheet with border and title block provided. Be sure to fill out the title block properly.
- The scale of all required drawings will vary. Utilize wise sheet layout.

**Your task is to provide the following drawings for your client’s use:**

- Plot Plan
- Floor Plan (1<sup>st</sup> and 2<sup>nd</sup> Floors)
- Openings Schedule
- Exterior Elevations
- Typical Wall Section
- Elevation of the Kitchen as indicated on the sketch at B

### **Plot Plan**

- **Use Lot provided labeled #8 and circled.**
- 1" = 10'-0" Scale
- Location of house and orientation w/ dimensions from property lines
- Lot lines labeled and dimensioned
- All setbacks labeled.
- Label all lengths and direction of the bearings surrounding the property.
- BSL's = 10' LEFT SIDE, 10' RIGHT SIDE, AND 25' FRONT AND REAR
- Provide the driveway & walkway to front door.

### **Floor Plans**

- **Any dimensions not provided on sketch need to be estimated.**
- **Max width of structure = 82'-0", Max depth of structure = 52'-0"**
- Single family residence per attached Sketch
- Both Floor plans are to be plotted at a scale of 1/4" = 1'-0".
- Exterior walls to be 2 X 6 wood studs @ 16" O.C. w/ R-19 batt insulation between & treated sill plates w/ 1/2" X 10" anchor bolts @ 48" O.C.
- Exterior walls are to be face brick or stone, as indicated on the sketch, fully sheathed w/ 3/8" plywood for structural shear, Tyvek weather barrier, 2x6 wood studs, 6" batt insulation with vapor barrier, 1/2" gypsum wallboard, and wood baseboard.
- Interior partitions to be 2 X 4 wood framing @ 16" O.C. with 1/2" gyp. Bd. on all interior walls minus rear wall of garage. Rear of garage to have 5/8" gyp. Bd.
- 5/8" gyp. Bd. on all ceilings
- All ceilings are to be 8'-0" high
- Hip Style Roof to be a 4:12 pitch
- Open Cornice construction w/ 6" RX-90 fascia board, w/ (2) 2" dia screened holes drilled between trusses and 24" overhang.
- Metal roof, over 30# felt, over 5/8" plywood sheathing, over pre-engineered roof trusses @ 24" O.C. w/ R-30 batt insulation between.
- Show casework, appliances and plumbing fixtures. Do not show furniture.
- Provide necessary interior and exterior dimensions for construction.
- Dimension all exterior windows and doors to their center.
- Sills of all bedroom windows shall be a maximum of 40 inches above the finished floor.
- Front door to be a 36" wide door. Bedroom doors to be 30" wide. All other doors to be typical width.
- Indicate door and window sizes for each door and window by a door schedule and a window schedule. Make sure each door and window is scheduled with a unique door **number** and windows **letter**. The door schedule shall include the door **number**, quantity of doors and the size of the doors. The window schedule shall include the window **letter**, quantity of windows and the size of the windows.

### **Exterior Elevations**

- The front and rear elevation is drawn at a scale of 1/4" = 1'-0".
- The side elevations are to be drawn at a scale of 1/8" = 1'-0".
- Indicate title and scale of each elevation on the sheet.
- Provide proper annotation and dimensioning.

### **Wall Section**

Using the basic list of construction items provided previously stated about the exterior wall construction, and all notes included throughout this packet as applicable, develop an exterior wall section where indicated at (A) through an exterior wall at a scale of  $\frac{3}{4}'' = 1'-0''$ . Provide any additional necessary components, as well as notes, dimensions and material designations. Include everything from foundation to the roof.

- 2 story, 8' plate height
- 4:12 roof pitch
- Frost line 18"
- 30" x 12" Continuous Footings with 4" Brick Ledge
- #5 Rebar (Continuous)
- 24" Crawl Space (from crawl space grade to bottom of floor joists)
- 2 X 8 P.T. Sill Plate
- 2 X 12 Floor Joists at 16" o.c.
- $\frac{3}{4}''$  Hardwood Finished Floor

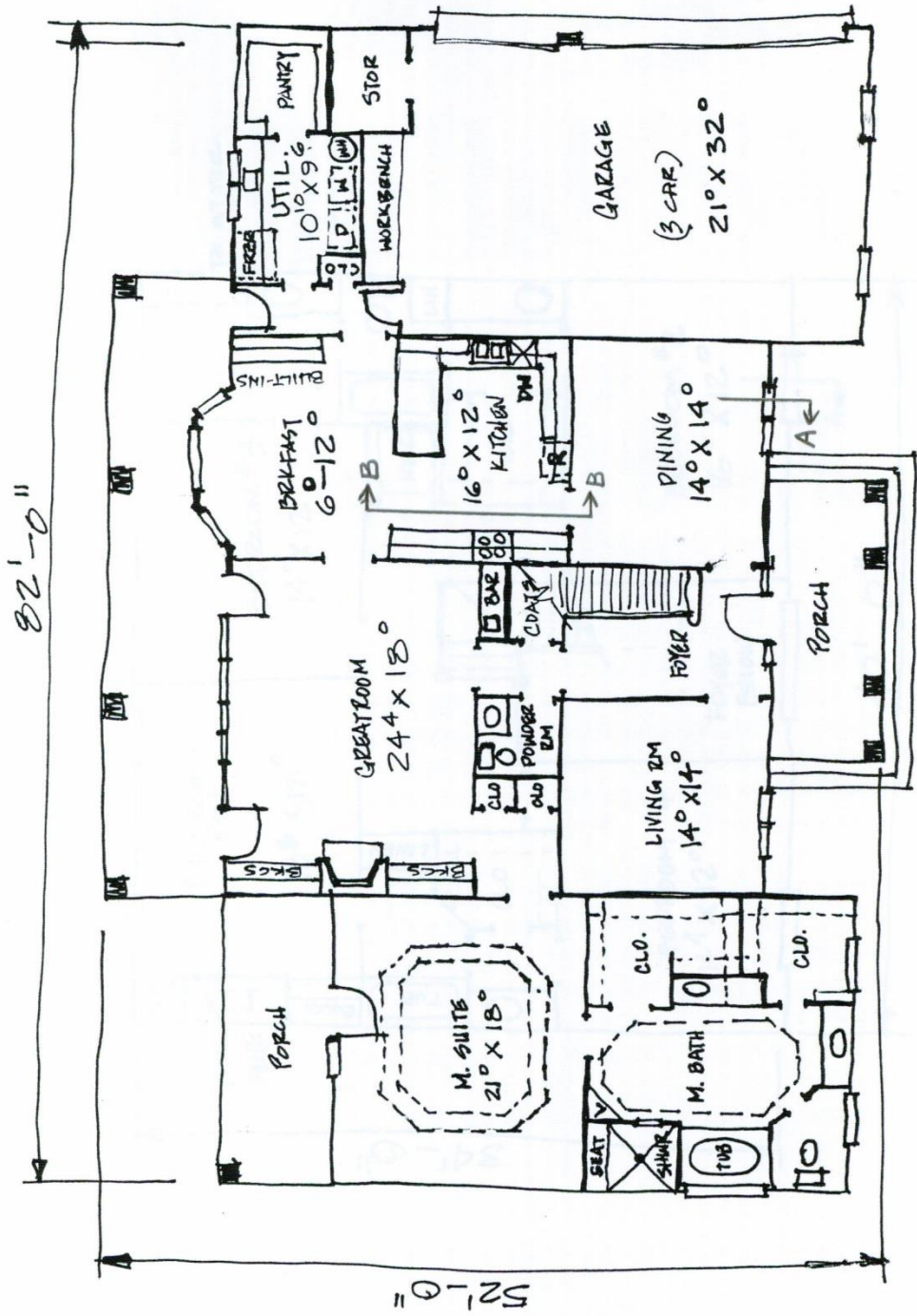
### **Interior Kitchen Elevation**

Draft an elevation of the kitchen casework as indicated on the attached sketch at (B).  
Scale of the elevation to be  $\frac{1}{2}'' = 1'-0''$

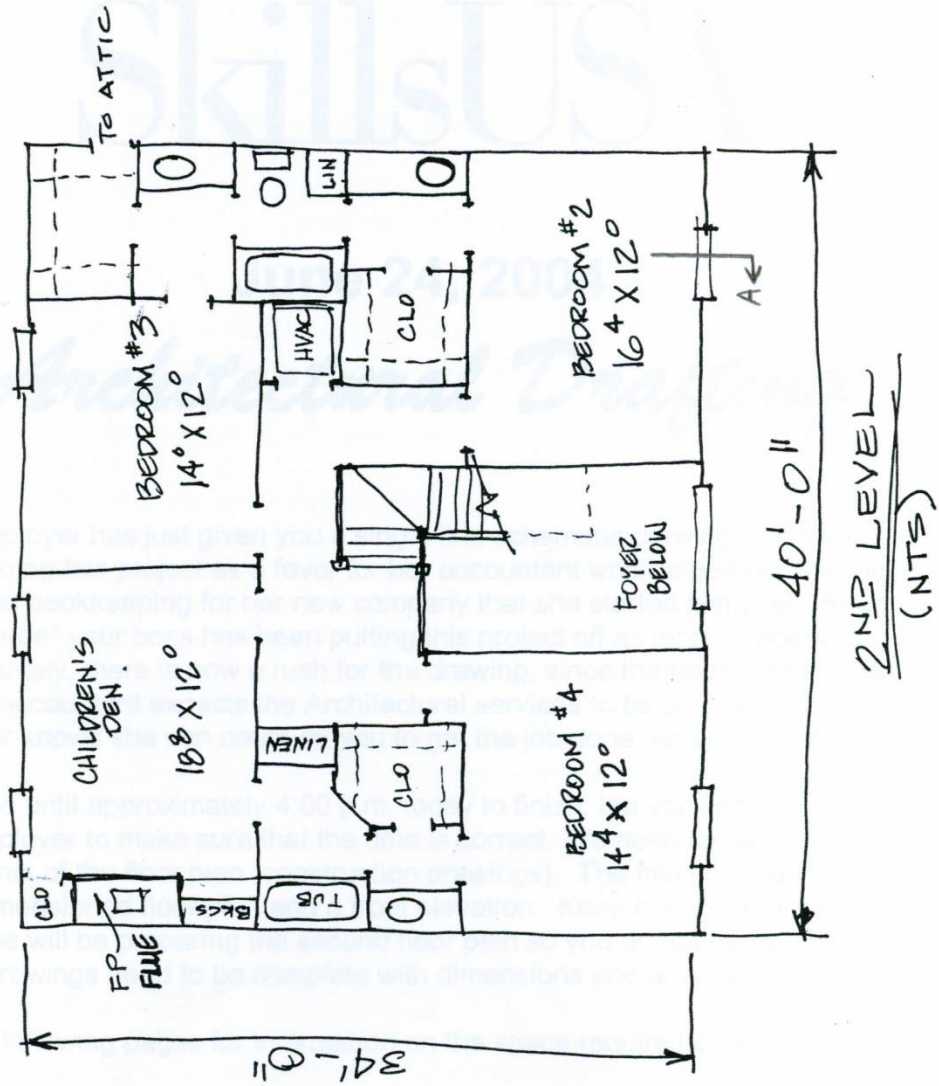
- Show lower and upper cabinets, sink, and any appliances that should be shown.
- Show all other elements that would be visible in the elevation.
- Dimension and annotate appropriately, including material designations.

### **REMEMBER**

- Your job is to bedazzle your boss with a clean, comprehensive set of construction documents.
- Read the contest problem thoroughly before starting, then read it again and highlight all important and necessary information and requirements.



MAIN LEVEL  
(NTS)



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