



Architectural Technology and Design

(Secondary Practical Challenge)



April 14, 2016



Skills Canada – Manitoba

Architectural Technology and Design (Secondary)

April 14, 2016

ASSIGNMENT – TIME ALLOTTED 4 HOURS

Provide basement development in a basement area that is currently unfinished.

DESIGN SPECIFICATIONS:

Your client has decided to develop their unfinished basement. All basement walls have been insulated and finished with ½” drywall.

Basement development requirements:

- Mechanical room (furnace, hot water tank, electrical panel, and sump pit).
- Bathroom to include a vanity, toilet, and 5’-0” bathtub.
- Laundry room to include washer, dryer, and sink.
- Recreation area to include seating and TV viewing.
- Bedroom with closet.

The following **specifications and guidelines** apply to the basement development design:

1. Build the 3” steel teleposts into future walls so that they will not be visible.
2. All interior wall construction will be 2 X 4 with ½” drywall finish both sides.
3. All basement horizontal slider windows are 48” X 24” in size.
4. The door to the under stair storage area is 30” X 80”
5. All dimensions provided are to the exterior or interior faces of concrete walls and to the edges of concrete openings.
6. All dimensions provided are to the faces of 2 X 4 wall studs.
7. Stair width is between finished faces of drywall.
8. Teleposts and beam locations are dimensioned to their centers.
9. The 4” main stack (drain) is located as shown in the supplied basement floor plan.

DRAWINGS PROVIDED

The following drawings are provided so that the competitor can determine overall basement dimensions, wall styles, basement elevations, and stair detail:

1. Existing basement floor plan.
2. Wall section.
3. Stair section.

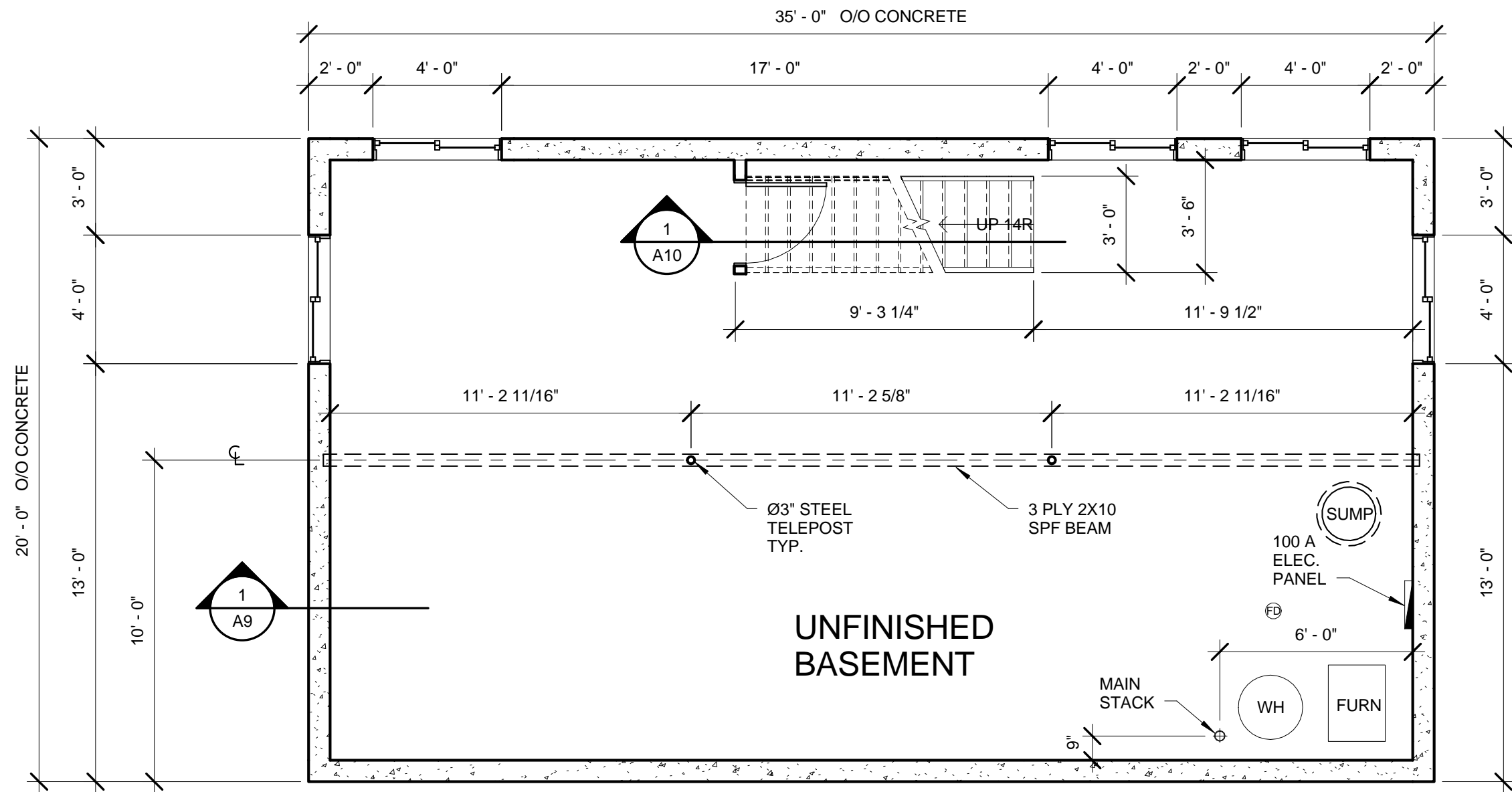
DRAWINGS REQUIRED:

Three drawings will be required:

1. A **presentation format floor plan** of the basement development, including furniture placement.
2. A **dimensioned floor plan (working format)** of the basement development. This will not be a foundation plan drawing.
3. One **dimensioned (working format) bathroom elevation** drawing of the new bathroom. **The competitor is required to draw only one interior elevation.**

PLOTTING INFORMATION:

1. The scale of each drawing is the designer’s choice, but should be to a standard architectural scale.
2. Plot on **17” x 11”** (B size, tabloid) sheets; each drawing will be plotted black and white (monochrome) on separate sheets.
3. Refer to the “Drawing Format Specifications” sheet for border and title block information. Use your **competitor number**, not your name, on each plotted sheet.



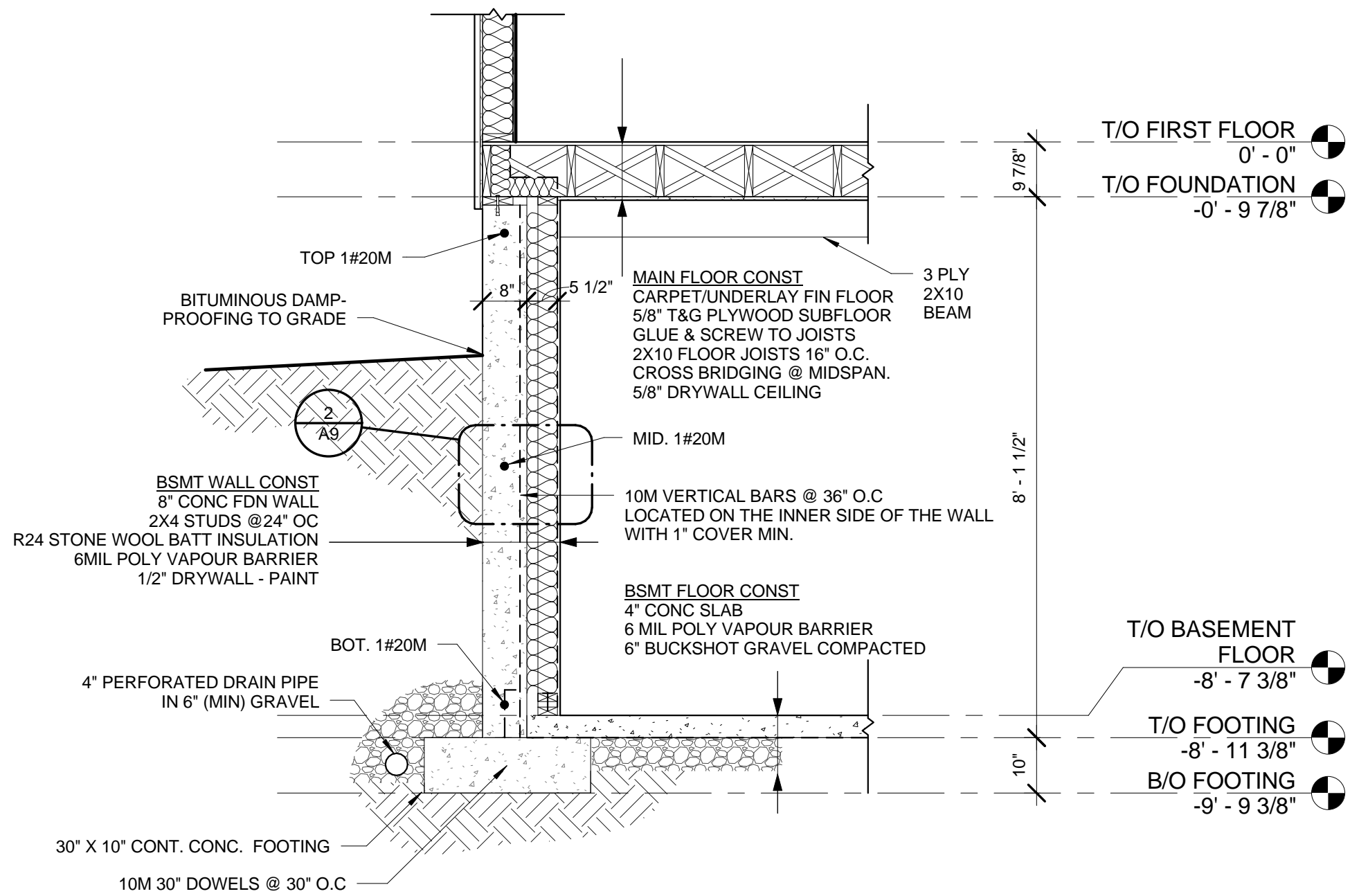
BASEMENT FLOOR PLAN

1
1/4" = 1'-0"

NOTE:
ALL DIMENSIONS TO THE FACES
OF CONCRETE WALLS AND TO EDGES OF OPENINGS.

ALL DIMENSIONS TO THE FACES OF WOOD STUDS.

MB ARCH. TECH. AND DESIGN 2016		
TITLE:	DATE: 2016 APRIL 14	COMPETITOR NO.:
	SCALE:	

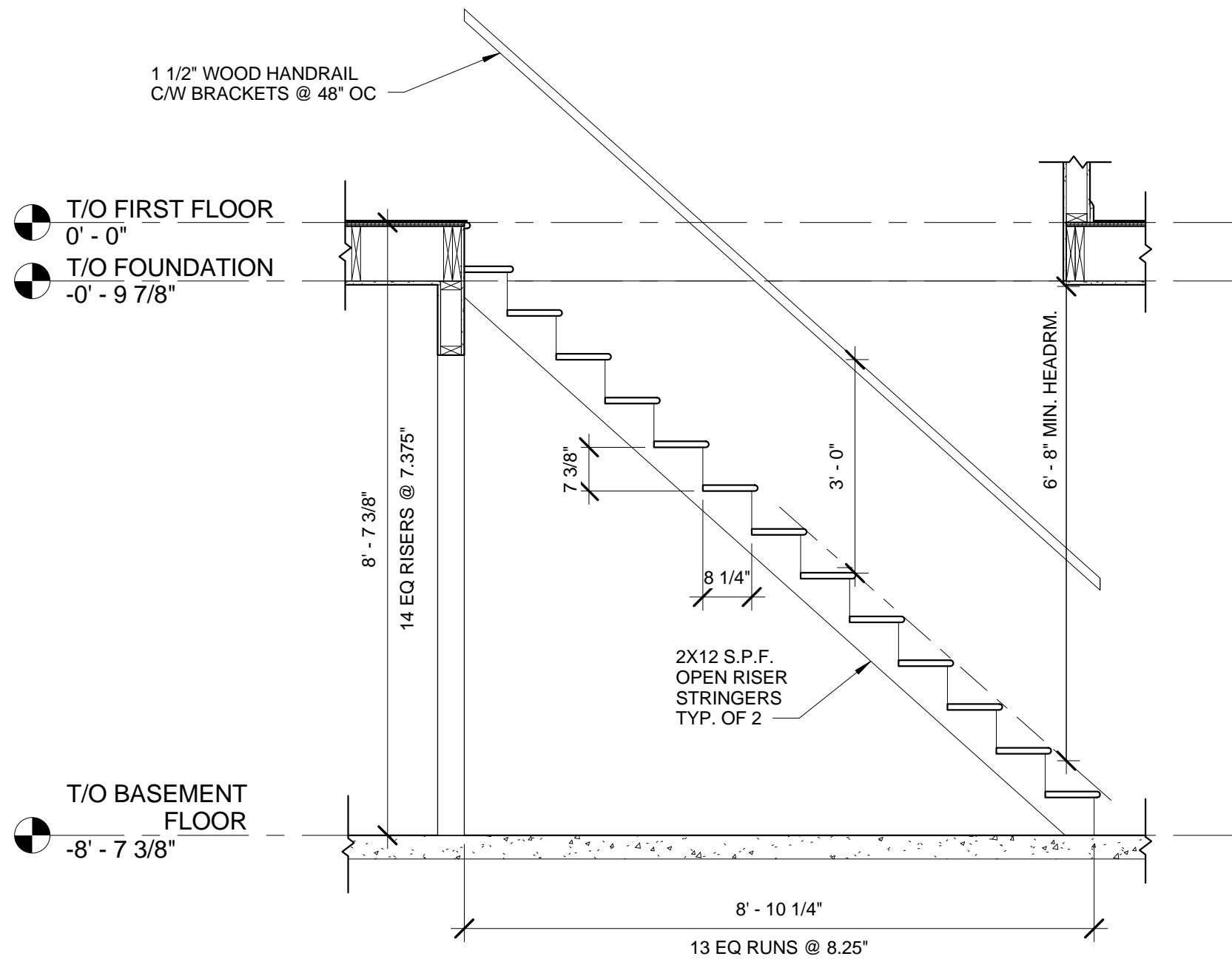


1 WALL SECTION
1/2" = 1'-0"



2 WALL DETAIL
1 1/2" = 1'-0"

MB ARCH. TECH. AND DESIGN 2016		
TITLE:	DATE: 2016 APRIL 14	COMPETITOR NO.:
	SCALE:	



1 STAIR SECTION
1/2" = 1'-0"

MB ARCH. TECH. AND DESIGN 2016		
TITLE:	DATE: 2016 APRIL 14	COMPETITOR NO.:
	SCALE:	

DRAWING FORMAT SPECIFICATIONS:

SHEET SIZE:

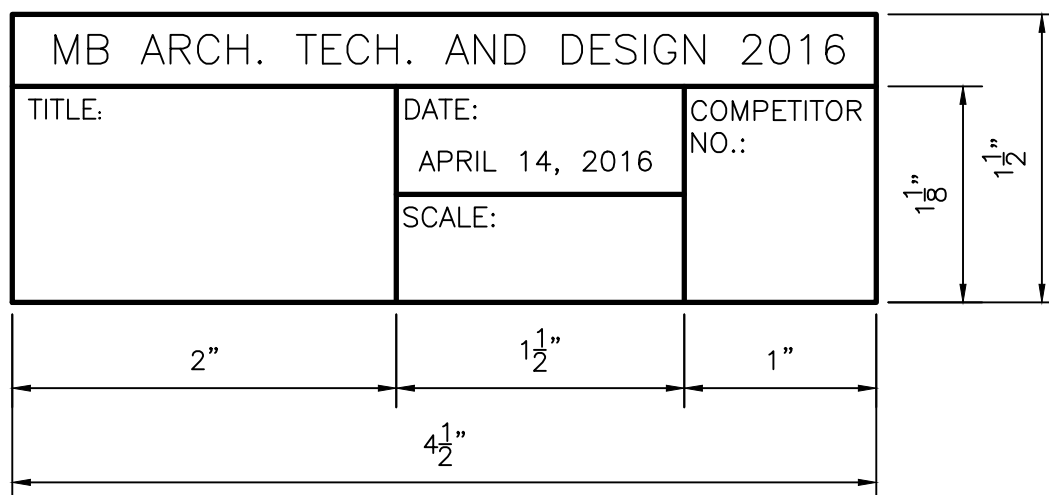
- "B" Size (tabloid) paper (17 x 11)

BORDER:

- $\frac{1}{2}$ " in on all four side (plotted sizes)

TITLEBLOCK:

- Use the drawing below to create your title block.
- Use your **competition number, not your name.**



TEXT HEIGHT:

- NOTES: $\frac{3}{32}$ " (0.1") Plotted Height.
- TITLES: $\frac{3}{16}$ " (0.2") Plotted Height.

DIMENSION STYLE:

- See sketch for example of dimension style.
- Dimension text height is $\frac{3}{32}$ " (0.1")
Font is Arial.

