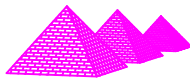


# 18-SIDED FREEDOM YURT CABIN



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Phone: (541) 850-6300  
maverick@structure1.com

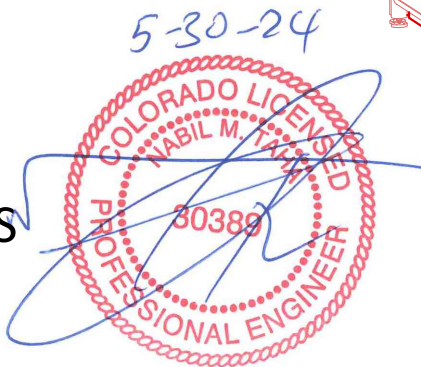
PROJECT #:  
Freedom Yurt Cabins  
224-001  
Generic  
18-Sided Cabin



FREEDOM YURT CABINS  
3200 CR100  
BUILDING 10  
FREEDOMYURTCABINS@GMAIL.COM  
(719) 362-3333

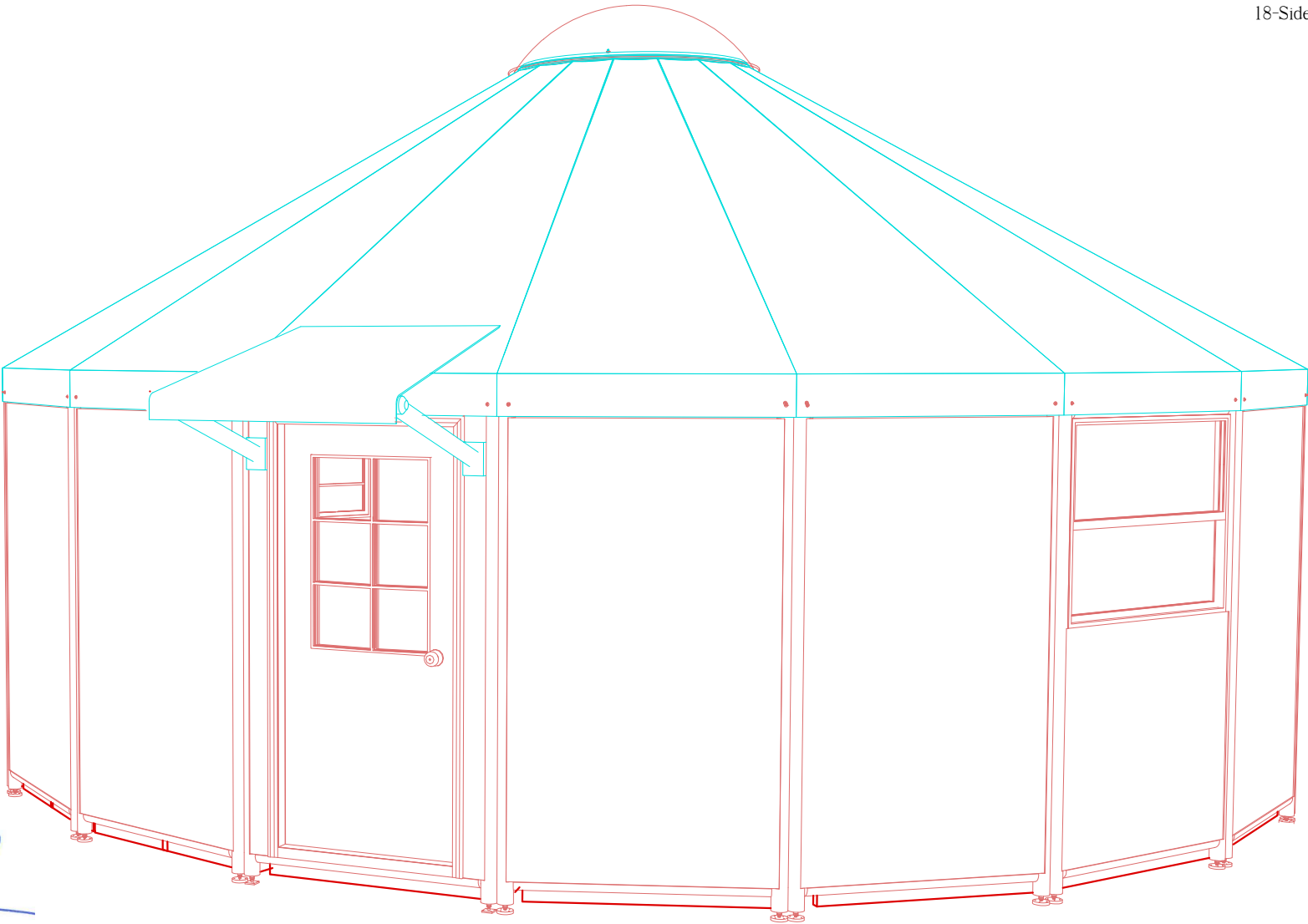
## SHEET LIST TABLE

Sheet Title	Sheet Description
A0.0	COVER SHEET
A0.1	GENERAL NOTES
A0.2	OVERALL ELEVATIONS
A1.0	FLOOR PLAN
A1.1	FLOOR FRAMING PLAN
A1.2	MOUNT BASE DETAILS
A1.3	FOOTING AND FLOOR FRAMING DETAILS
A1.4	FLOOR SHEATHING LAYOUT
A1.5	BASIC FLOOR SHEATHING TRIANGLES
A2.0	WALL UNIT DETAILS
A2.1	DOOR UNIT DETAILS
A2.2	WINDOW UNIT DETAILS
A3.0	ROOF FRAMING PLAN AND DETAILS
A3.1	ROOF HEIGHT
A3.2	ROOF DETAILS
A3.3	ROOF TRIANGLES
A3.4	RAFTER BRACKET DETAILS
A3.5	ACRYLIC DOME DETAILS



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PROJECT NAME  
PROJECT LOCATION

1"  
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guide scale above will  
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accordingly.

COVER SHEET

SCALE: NONE

A0.0

A. GENERAL NOTES

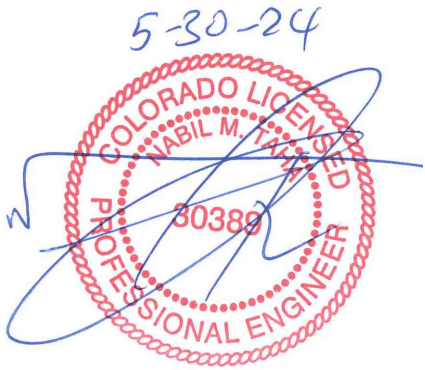
- 1. Dimensions shall take precedence over scales shown on the drawings. Do not scale drawings.
- 2. Notes and details shall take precedence over general notes and typical details.
- 3. Openings, chases, trenches, holes, notches, etc.. shall not be placed in beams, joists, columns, bearing or shear walls, unless specifically detailed or noted on the drawings.
- 4. The structure shown within this drawing set is a prefabricated system meant to be shown in separate instruction. Any omission or change to the system shown on these drawings shall be done at the risk of the owner.

B. STRUCTURAL NOTES

- 1. Lumber
  - a. Dimensional lumber shall be new Hem-Fir (19% maximum moisture content), "No. 2" grade, with minimum Fb=935 psi, & E=1,300,000 psi
  - b. Dimensional lumber joists shall be pressure treated and kiln dried (KDAT)
  - c. Roof rafters shall be 4" Ø Round Douglas Fir with 19% maximum moisture content, Fb = 2050, E=1,500,000 psi
  - c. Wall Headers shall be 3" Ø Round Lodgepole Pine with 19% maximum moisture content, Fb = 1500, E=1,100,000 psi
  - d. Wall studs shall be 3" Ø Round Lodgepole Pine with 19% maximum moisture content, Fb = 1250, E=1,100,000 psi
- 2. Plywood and Oriented Strand Board
  - a. Sheathing for walls shall be 12/32 inch, LP Smartside Structural Panel, type C-D, rated (ps-1 or equivalent), exposure 1 or equivalent.
  - b. Sheathing for roofs shall be 19/32 inch, APA 24/16, type A-C, rated (ps-1 or equivalent), exposure 1 or equivalent.
  - c. Sheathing for floors shall be 23/32 inch, APA 48/24, type A-C, rated (ps-1 or equivalent), exposure 1 or equivalent.
- 3. Foundation Bearing values
  - a. A code minimum soil bearing value of 1,500 psf has been assumed.
- 4. Site Preparation:
  - a. Scrub all organic material and remove all loose soil from underneath all proposed pads and footings. Sub-grade shall be competent, undisturbed soil.
  - b. All loose sub-grade beneath the bottom of footings shall be removed and replaced with approved fill material, if necessary.
- 5. Compacted Fill
  - a. All fill and backfill shall be placed in uniform lifts of 10" or less and be of suitable thickness for the compaction equipment selected, and moisture conditioned to within 2 percent of optimum.
  - b. Site grading shall be developed and maintained during and after construction to rapidly drain surface and roof runoff away from foundation and sub-grade soils. Downspouts from roof drains shall be discharged at least 10 feet from the building, and landscape irrigation should not be placed within 10 feet of the building.
- 6. Exterior Grade
  - a. New slope paved drive-ways and walk-ways shall have a minimum slope of 1/4:12 away from the building.

C. DESIGN CRITERIA

- 5. All design, material, and construction work for this project shall conform to the 2021 International Building Code (IBC).
- 6. Design parameters.
  - a. Floor Live Load = 40 psf.
  - b. Floor Dead Load = 15 psf.
  - c. Roof Live Load = n/a.
  - d. Roof Dead load = 10 psf.
  - e. Ground Snow Load, Pg = 90 psf.
  - f. Flat Roof Snow load = 63 psf
  - g. Sloped Roof Snow load = 38.5 psf (7:12 pitch)
  - h. Snow Exposure Factor, Ce = 1.0
  - i. Snow Load Importance Factor, I = 1.0
  - j. Thermal Factor, Ct = 1.0
  - k. Basic Wind Speed (3 second gust) = 115 mph
  - l. Wind Importance Factor, Iw = 1.00
  - m. Wind Exposure = C
  - n.Internal Pressure Coefficient = 0.18
  - o. Components and Cladding studs = N.A
  - p. Seismic Importance Factor, Ie = 1.0
  - q. Ss = 1.5
  - r. S1 = 0.75
  - s. Site Class = D
  - t. Seismic Design Category = D
  - u. Response Modification Factor, R = 3.0
  - v. Analysis Procedure Used = Equivalent Lateral Force Procedure



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PROJECT NAME  
PROJECT LOCATION

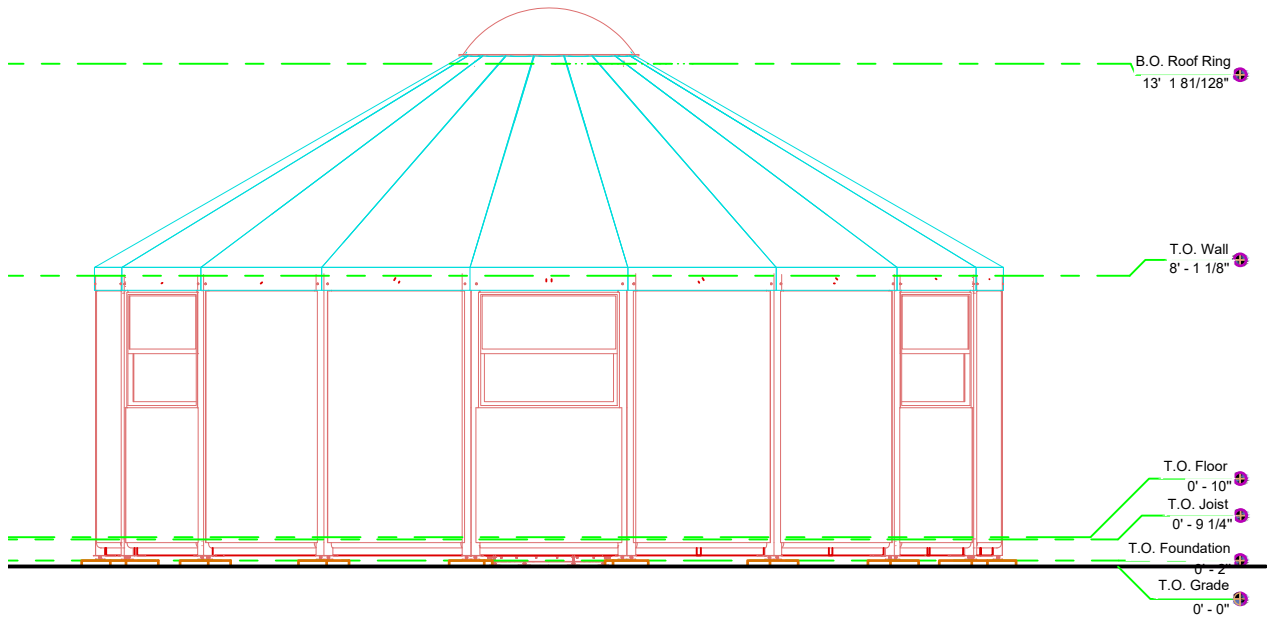
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Note: sheet is printed full size at 11"x17". The guide scale above will print 1" length, otherwise scale accordingly.

GENERAL NOTES

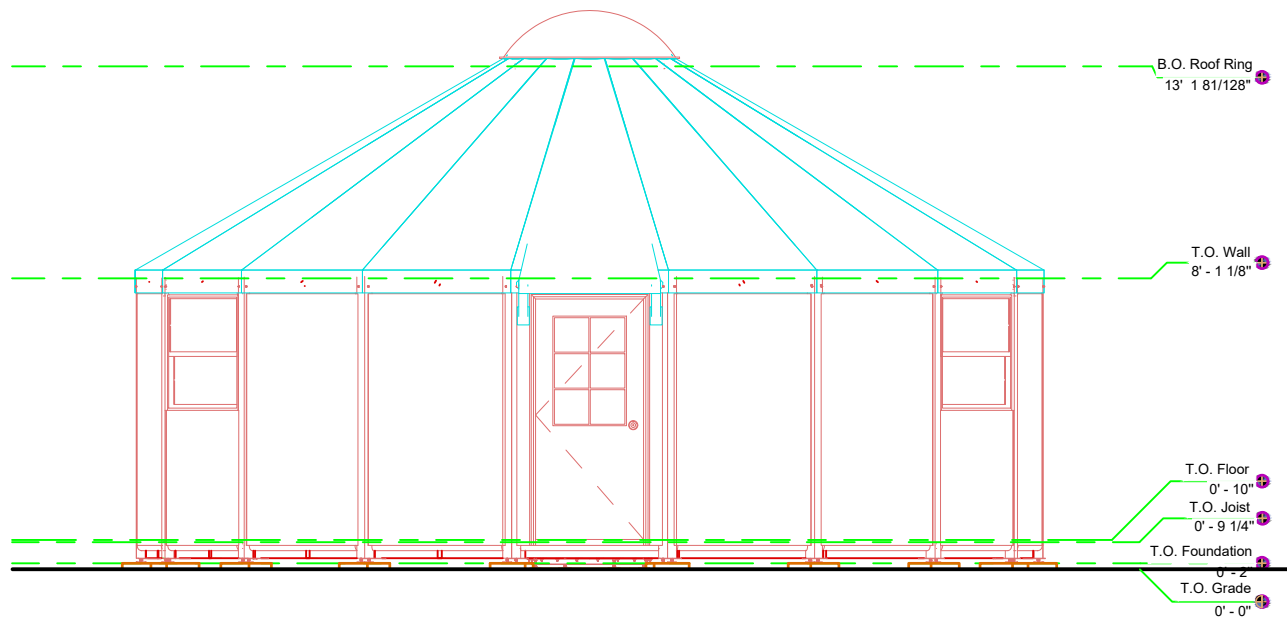
  
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SCALE: NONE

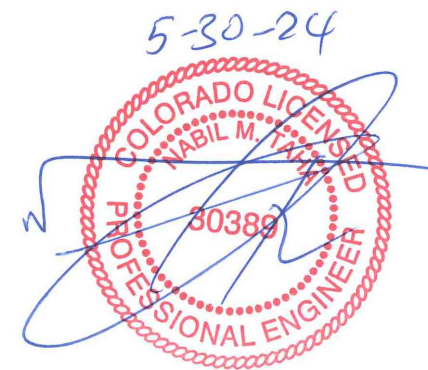
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① ELEVATION - WINDOW WALL  
1/4" = 1'-0"

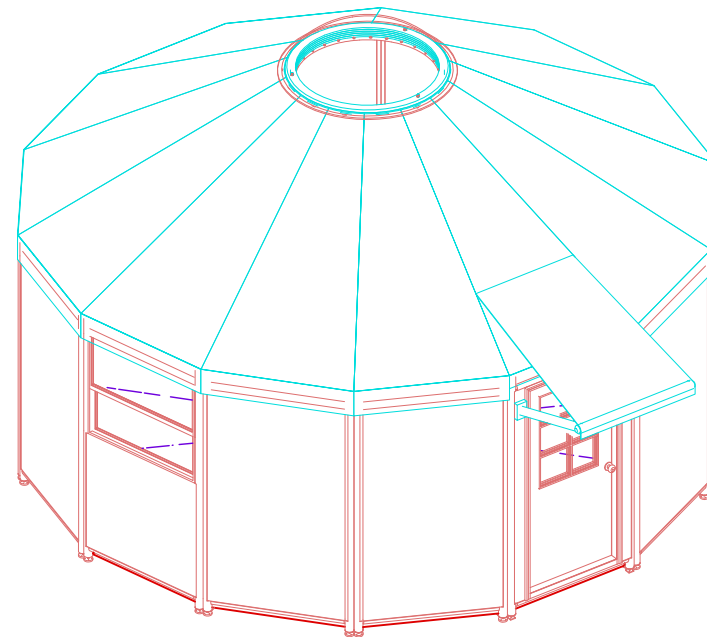


② ELEVATION - DOOR WALL  
1/4" = 1'-0"



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③ AXONOMETRIC VIEW

PROJECT NAME  
PROJECT LOCATION

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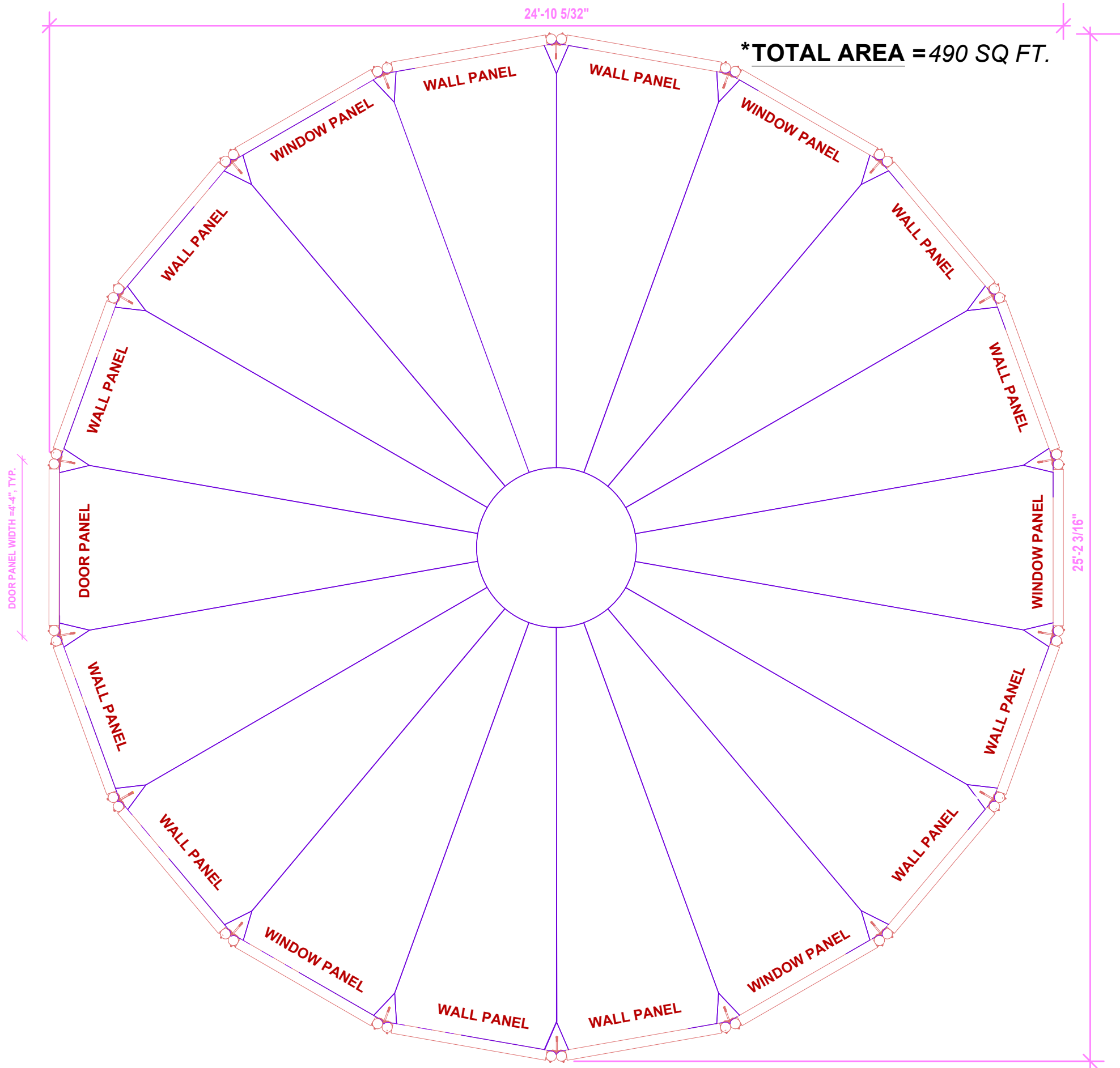
OVERALL ELEVATIONS

SCALE: AS SHOWN

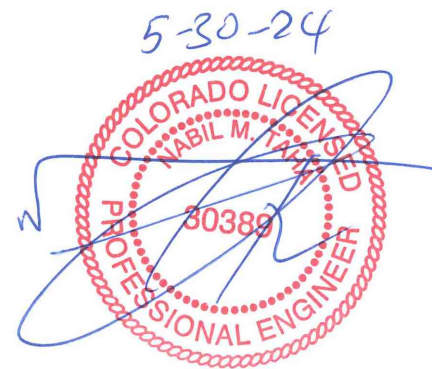
A0.2

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③ FLOOR PLAN  
3/8" = 1'-0"



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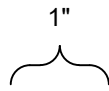
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PROJECT NAME  
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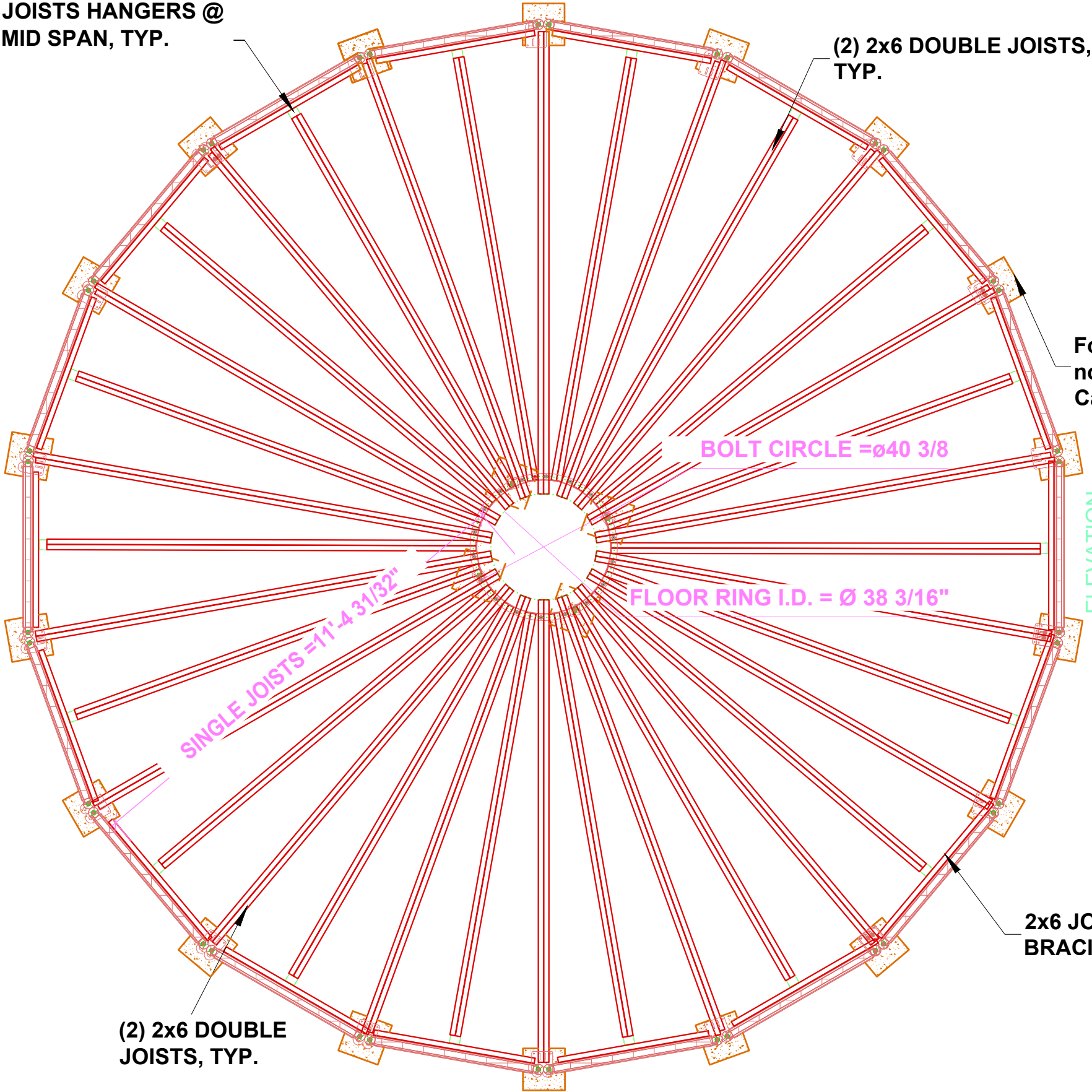
FLOOR PLAN

SCALE: 3/8" = 1'-0"

A1.0



FACE-TYPE LUS26-2 SIMPSON  
JOISTS HANGERS @  
MID SPAN, TYP.



Center Floor Ring (Inside Diameter) = 38 3/16"

Bolt Ring Diameter (28 Holes) = 40 3/8"

Double Joists (Total Length) = 11' - 0

Distance from the Center Support Ring Hole to the middle of  
the Joist Bracket Slot = 10' - 5

(2) 2x6 DOUBLE JOISTS,  
TYP.

Foundation by others  
not by Freedom Yurt  
Cabins or PSE

BOLT CIRCLE = Ø40 3/8

FLOOR RING I.D. = Ø 38 3/16"

SINGLE JOISTS = 11' - 4 31/32"

ELEVATION -  
WINDOW  
WALL

1 A2.0  
/2.1

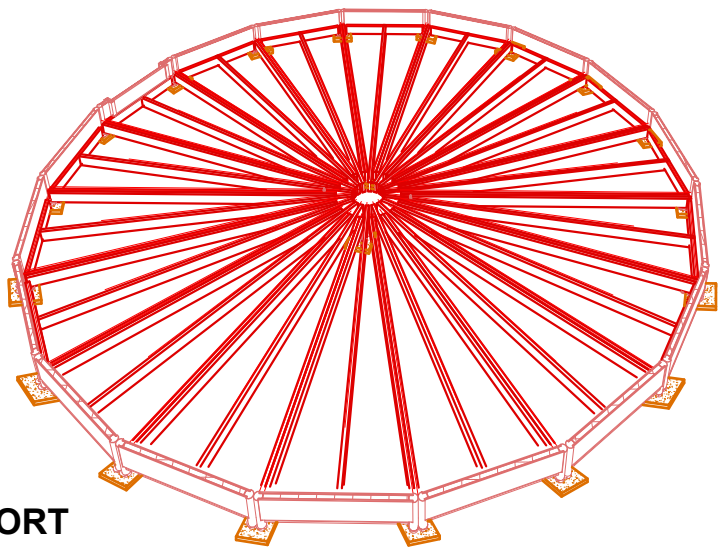
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2 FLOOR FRAMING ASIONOMETRIC VIEW

1 FLOOR FRAMING PLAN  
3/8" = 1'-0"

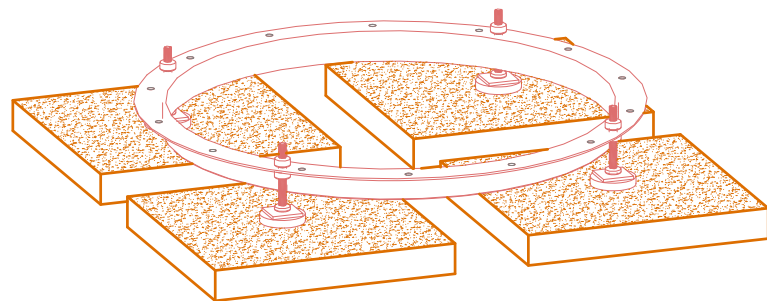
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PROJECT NAME  
PROJECT LOCATION

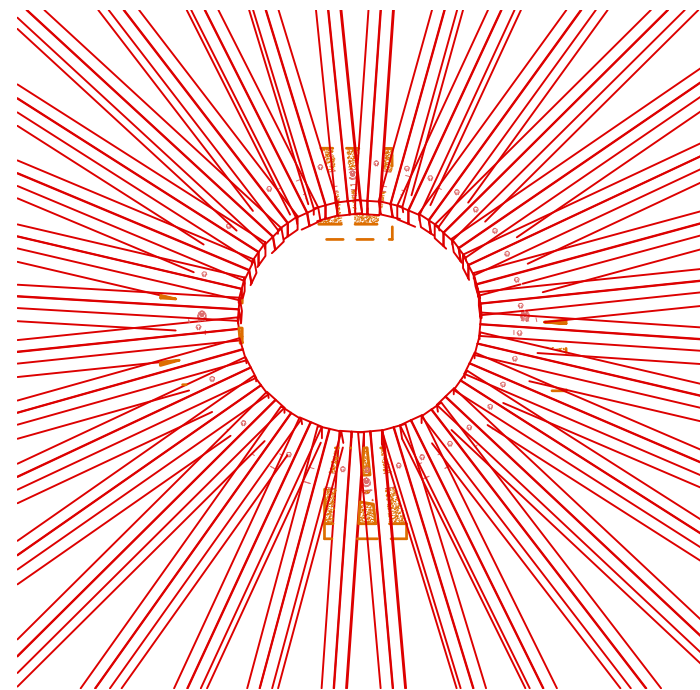
1"  
Note: sheet is printed  
full size at 11"x17". The  
guide scale above will  
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FLOOR FRAMING  
PLAN

A1.1



1 CENTER RING AXONOMETRIC (WITHOUT JOISTS)

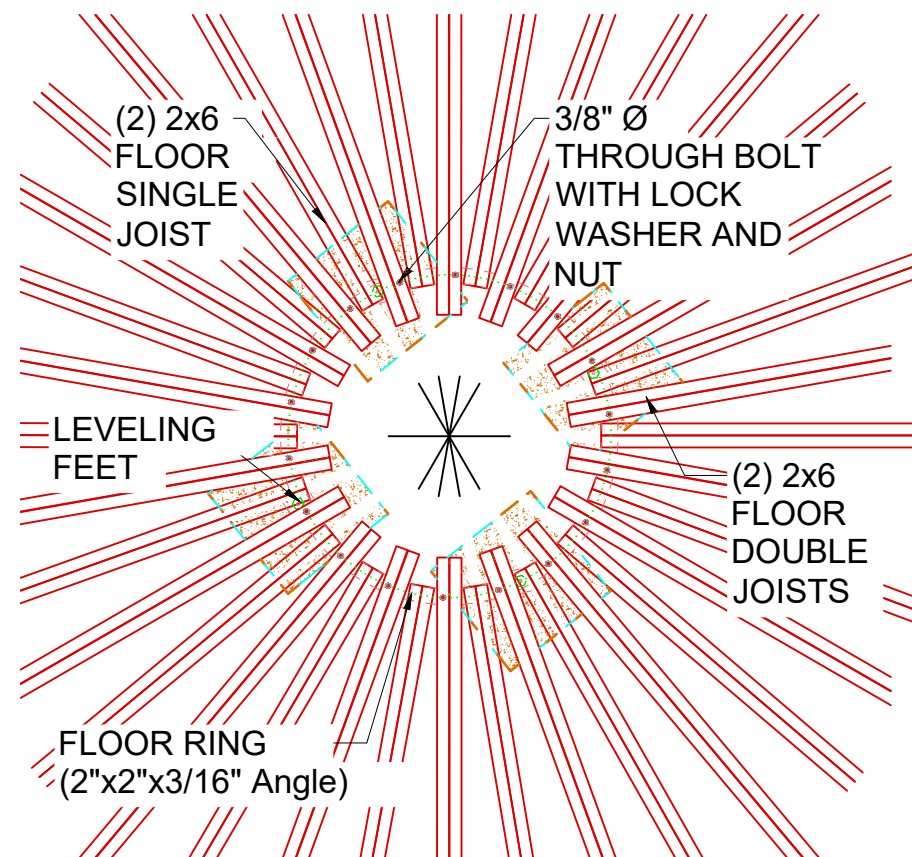


2 CENTER RING AXONOMETRIC



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3 CENTER RING (PLAN VIEW)

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PROJECT LOCATION

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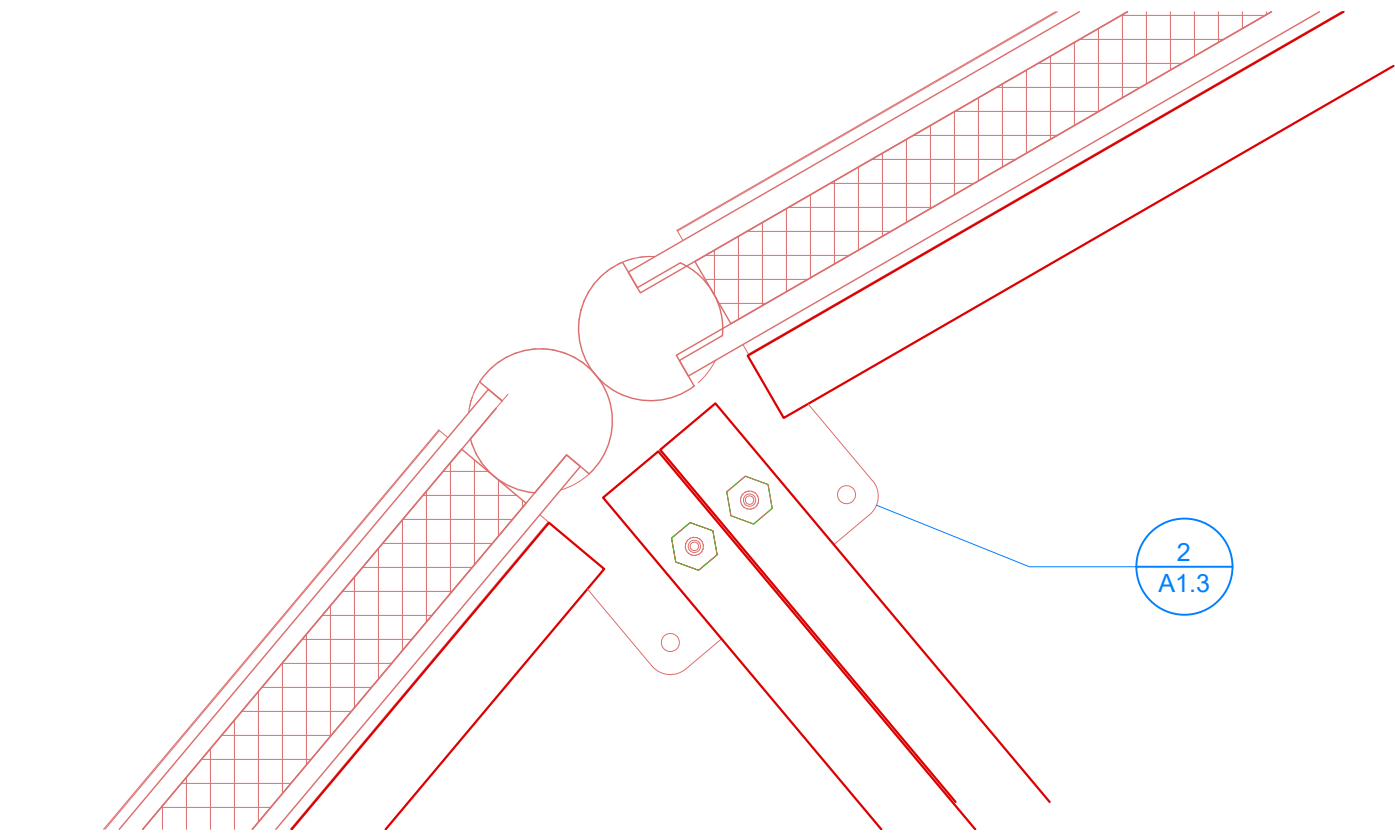
MOUNT BASE  
DETAILS

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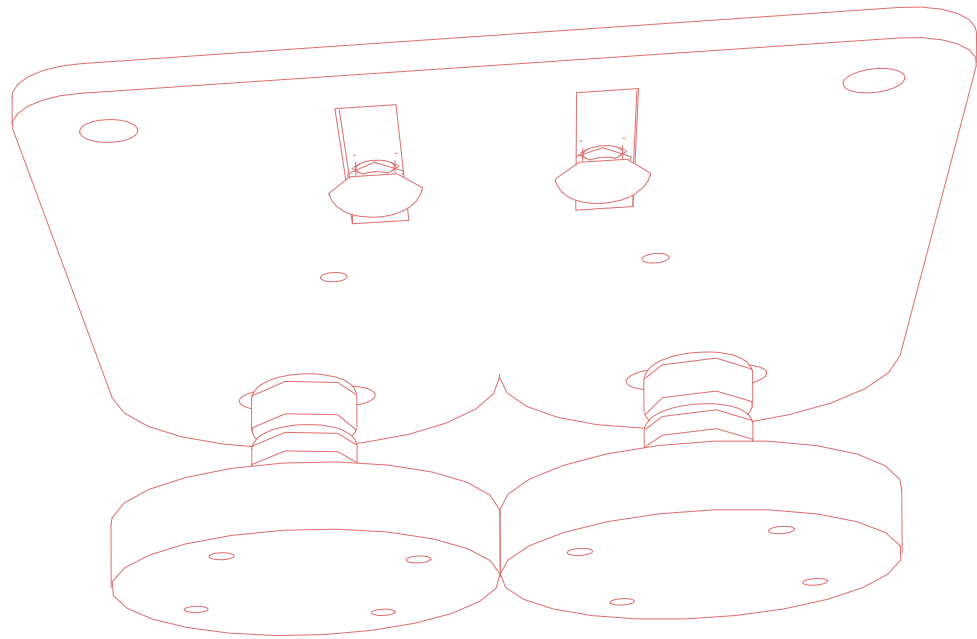
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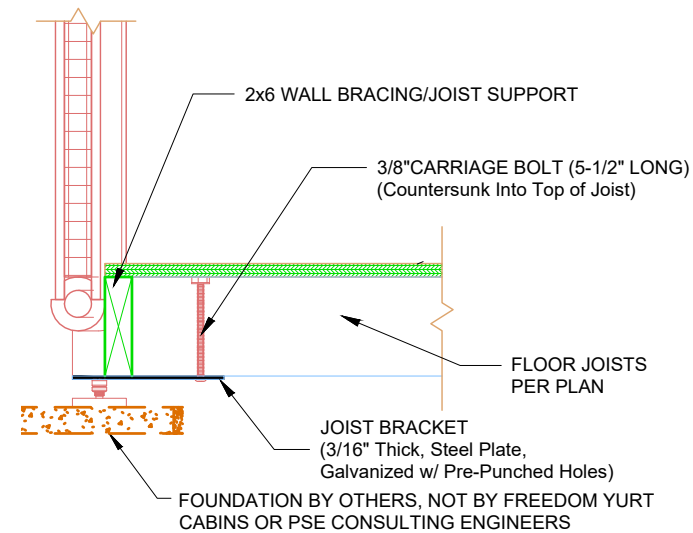
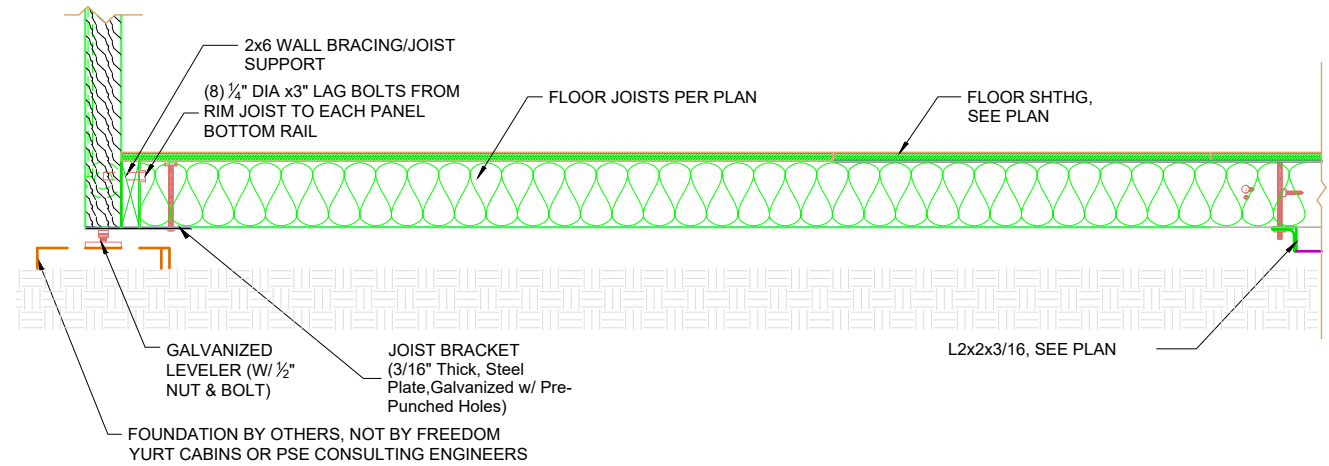
1 JOIST BRACKETS (PLAN VIEW)  
3" = 1'-0"



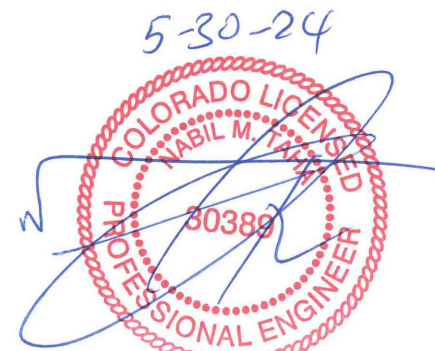
2 FLOOR JOIST BRACKETS



3 FLOOR SECTION  
1/16" = 1'-0"



4 LEVEL/ FRAMING SUPPORT - ELEVATION  
1/32" = 1'-0"



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SCALE:AS SHOWN

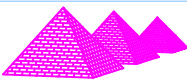
PROJECT NAME  
PROJECT LOCATION

1"  
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FOOTING AND FLOOR FRAMING DETAILS

A1.3

  
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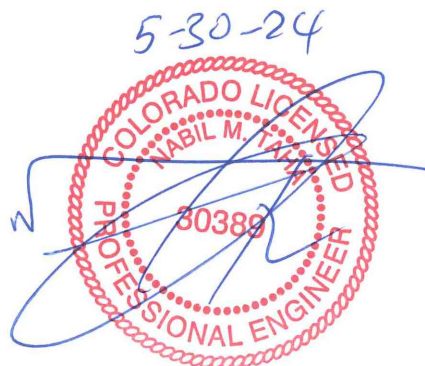
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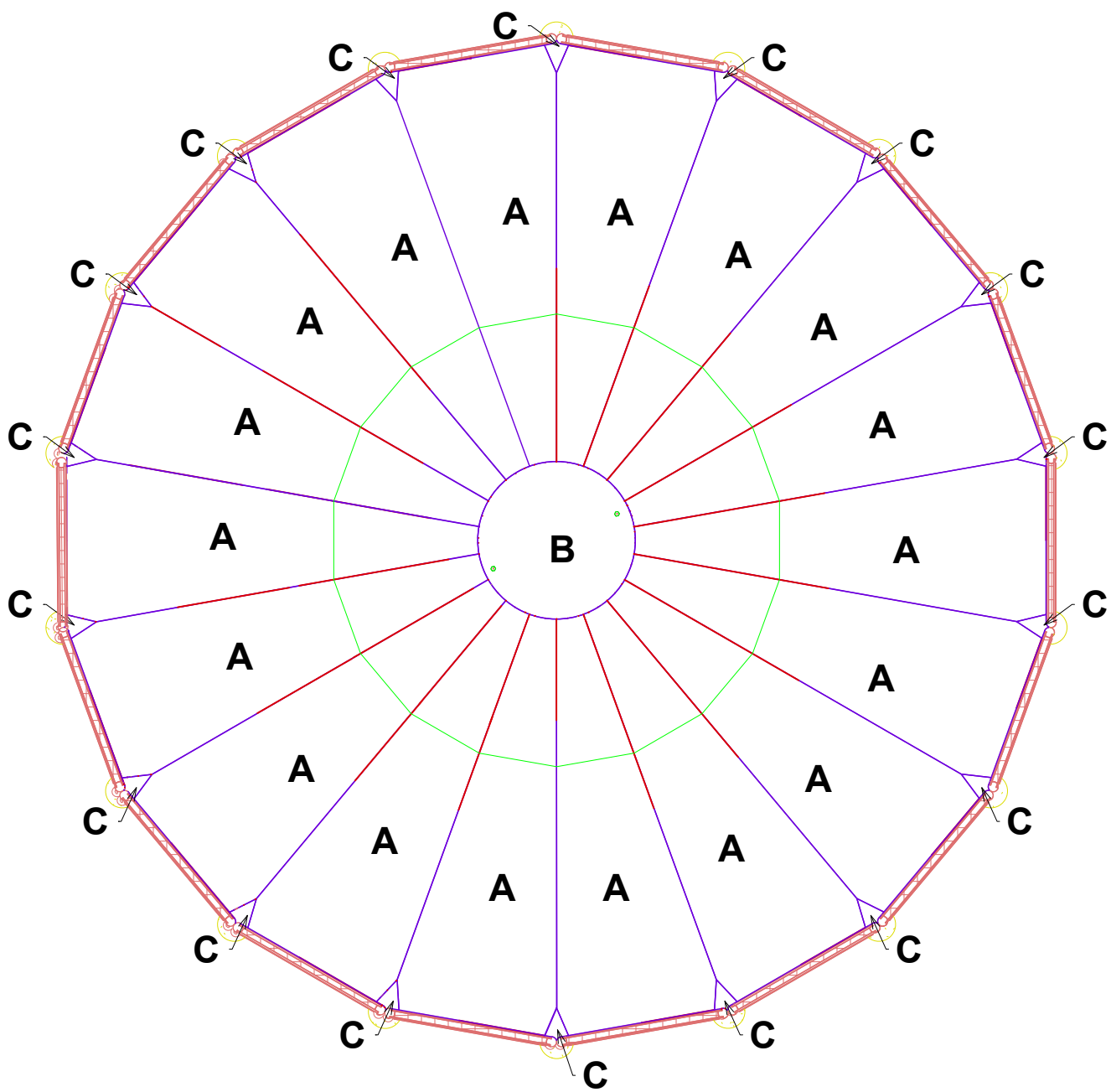
FREEDOM YURT CABINS  
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**\*3/4" FLOOR SHEATHING, TYP.**

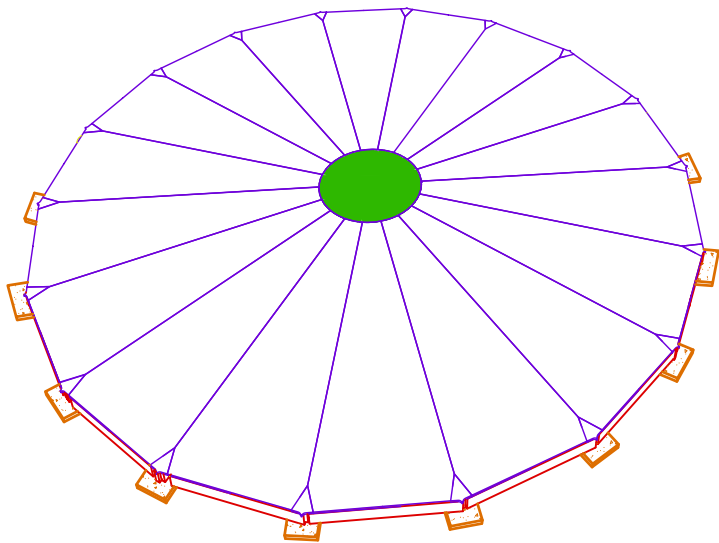


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① FLOOR SHEATHING PLAN  
1/4" = 1'-0"



② FLOOR SHEATHING ASIONOMETRIC VIEW

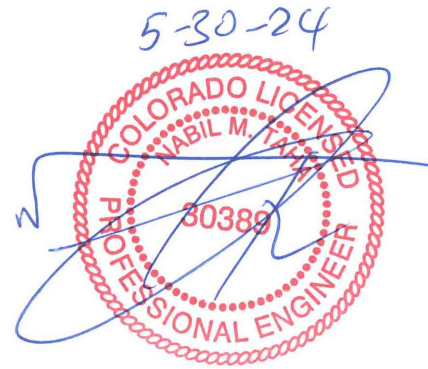
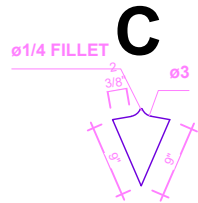
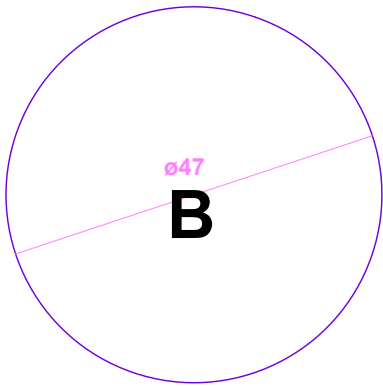
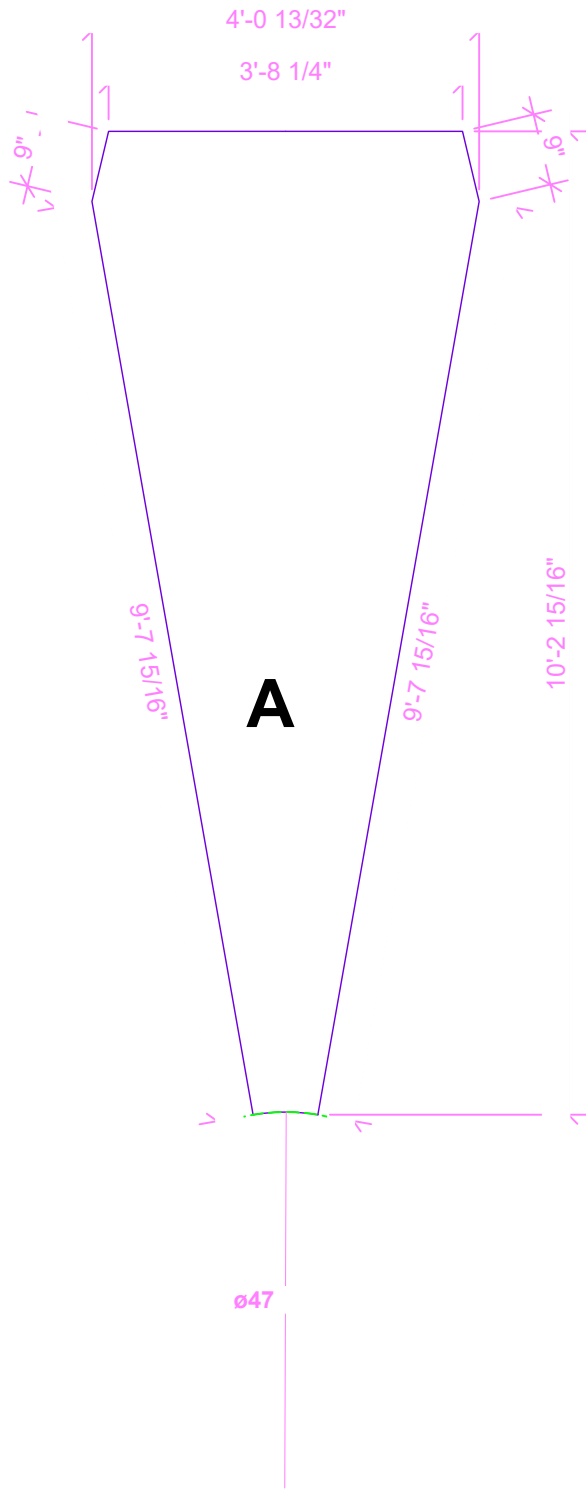
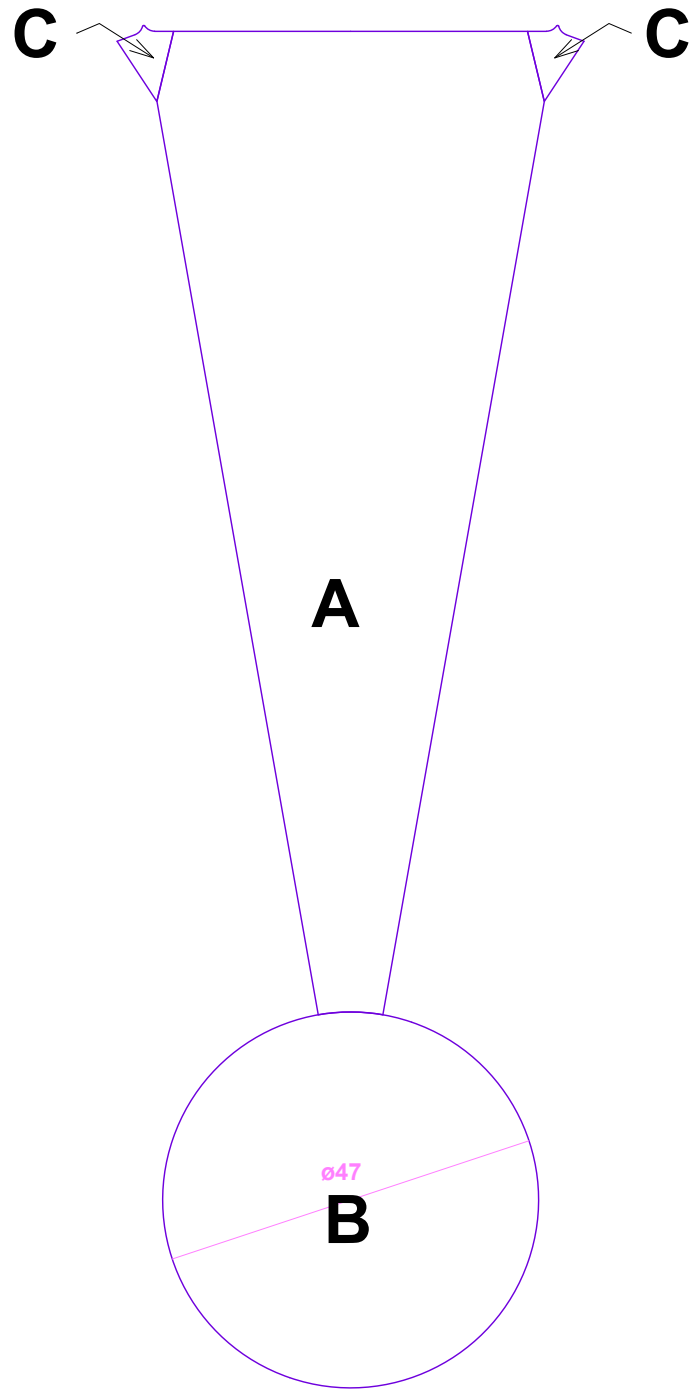
SCALE:AS SHOWN

PROJECT NAME  
PROJECT LOCATION

1"  
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FLOOR SHEATHING  
PLAN

A1.4



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**PROJECT NAME**  
**PROJECT LOCATION**

**1"**  
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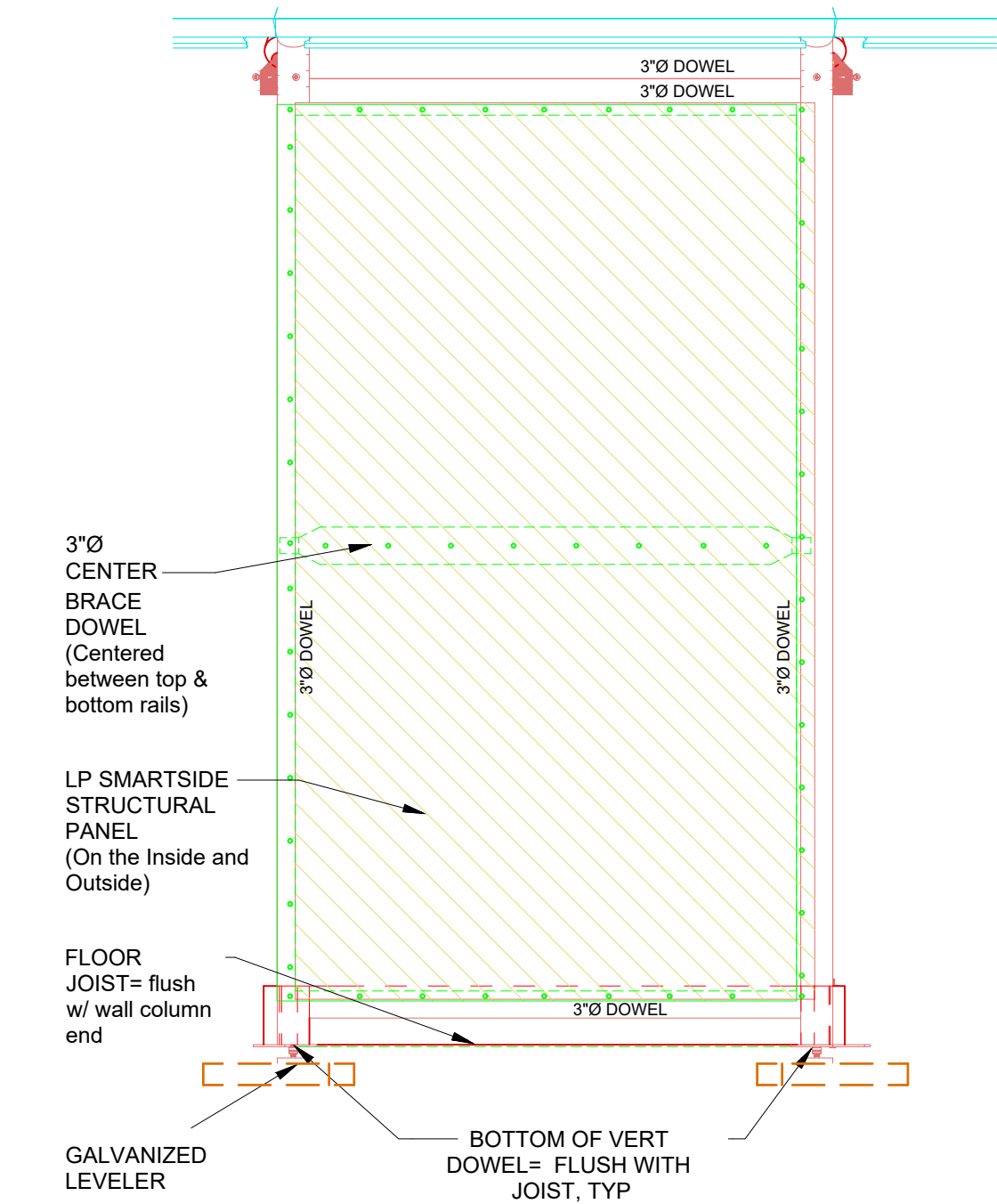
**BASIC FLOOR SHEATHING TRIANGLES**

**SCALE: 1/2" = 1'-0"**

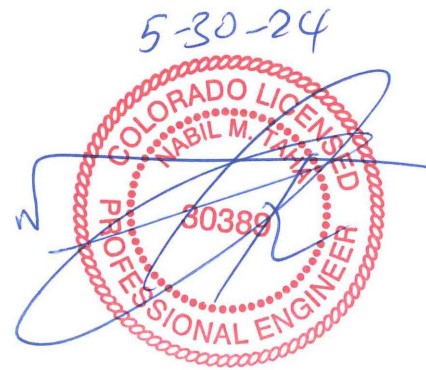
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**1 FLOOR SHEATHING BASIC CUTS**  
1/2" = 1'-0"



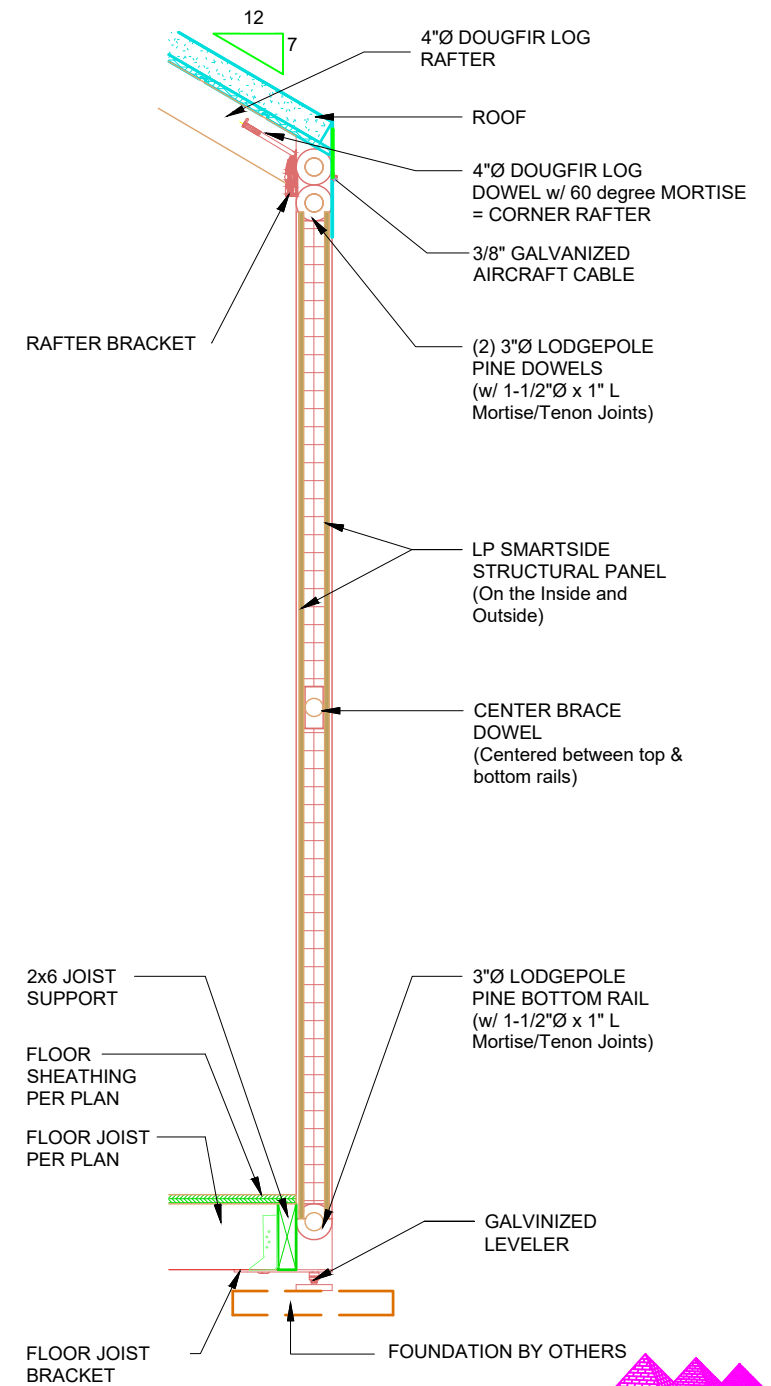


① ELEVATION - WALL  
1/4" = 1'-0"



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② ELEVATION - WALL  
1/4" = 1'-0"

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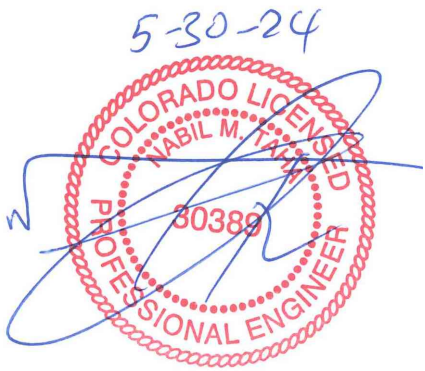


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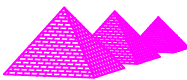
1"  
Note: sheet is printed full size at 11"x17". The guide scale above will print 1" length, otherwise scale accordingly.

WALL UNIT DETAILS

A2.0



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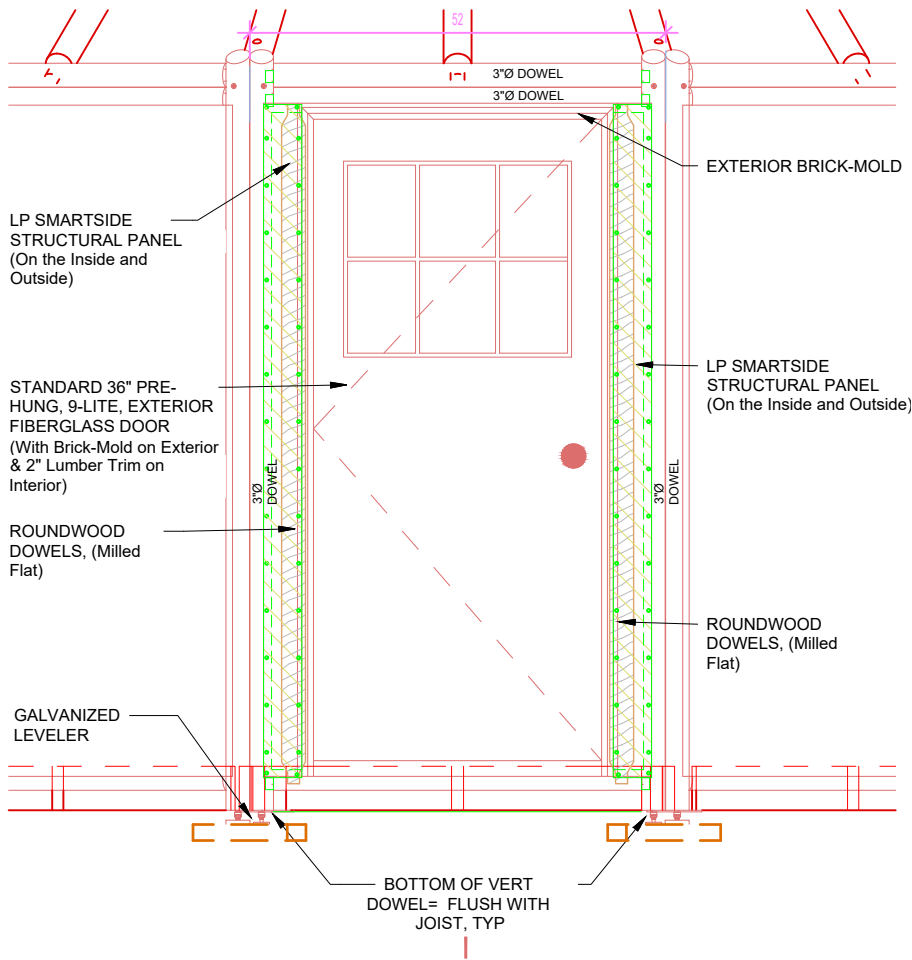
1"

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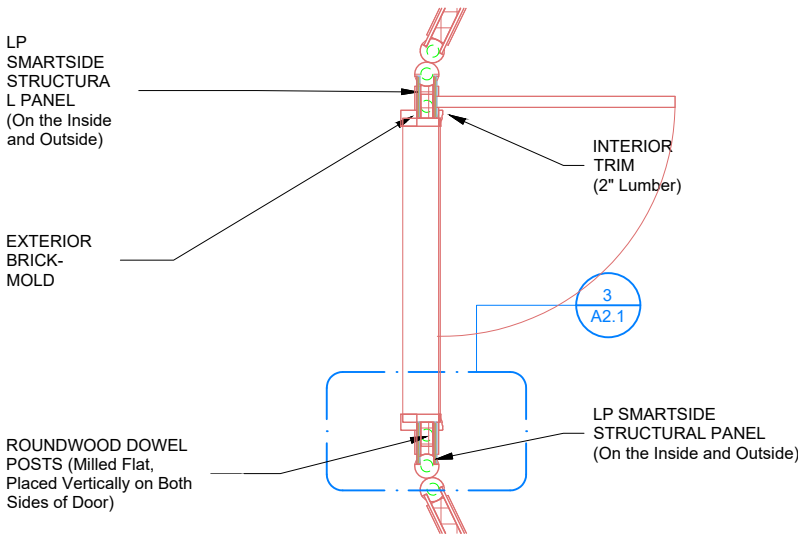
DOOR UNIT DETAILS

A2.1

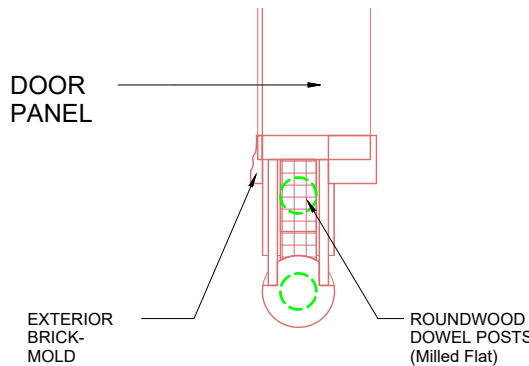
SCALE:AS SHOWN



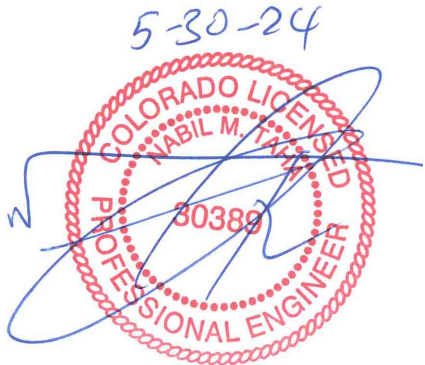
1 ELEVATION - DOOR UNIT  
1/2" = 1'-0"



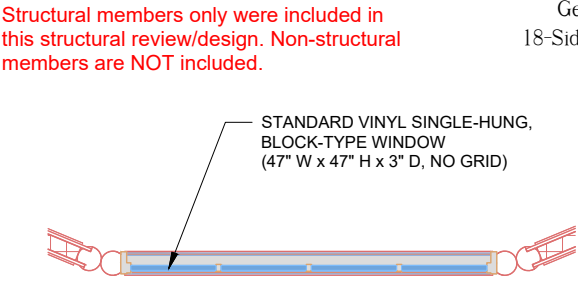
2 DOOR - PLAN VIEW  
1/2" = 1'-0"



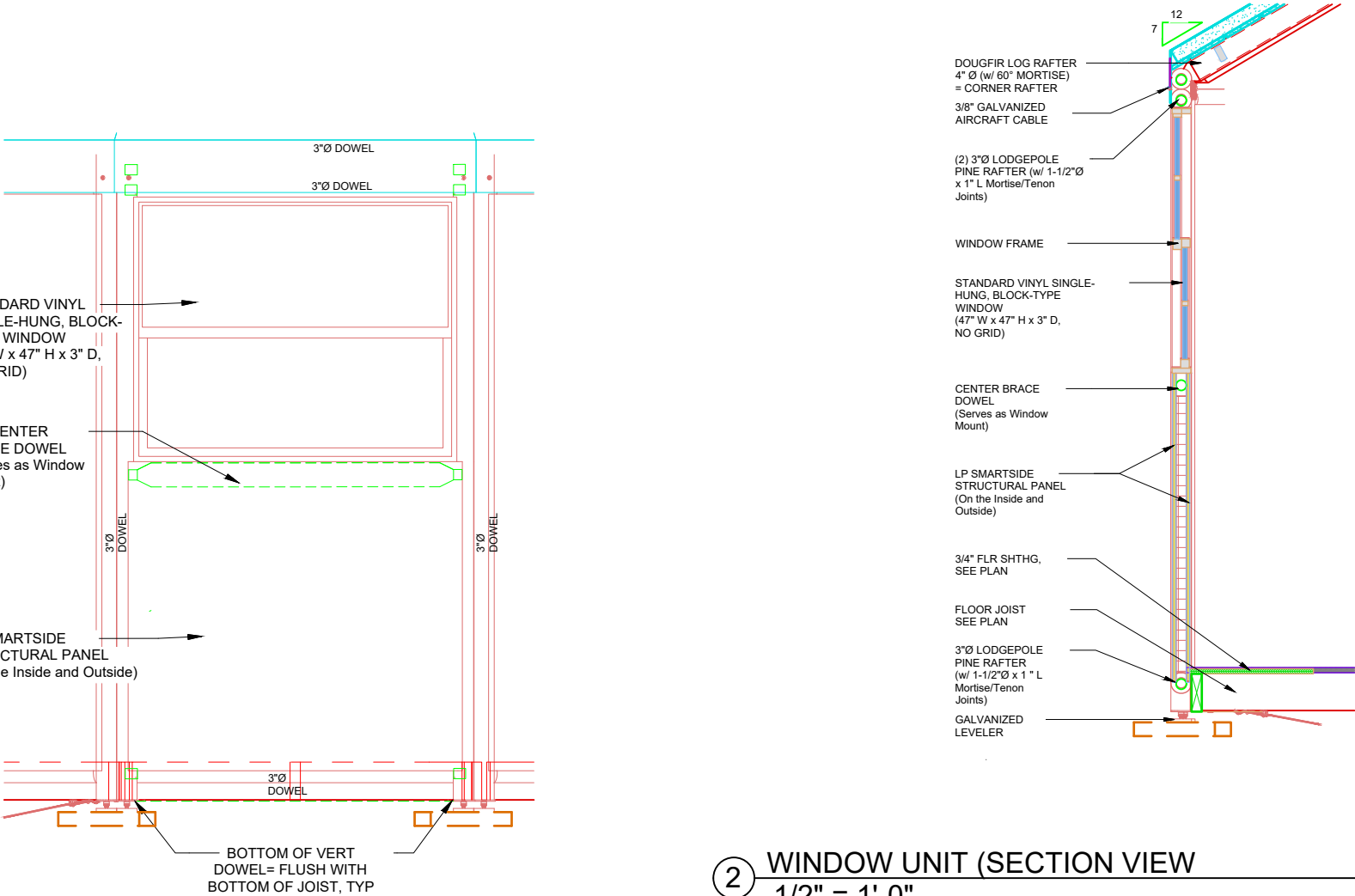
3 DOOR JAMB  
1" = 1'-0"



  
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③ WINDOW UNIT (PLAN VIEW)  
1/2" = 1'-0"



② WINDOW UNIT (SECTION VIEW)  
1/2" = 1'-0"

① WINDOW UNITS (ELEVATION VIEW)  
1/2" = 1'-0"

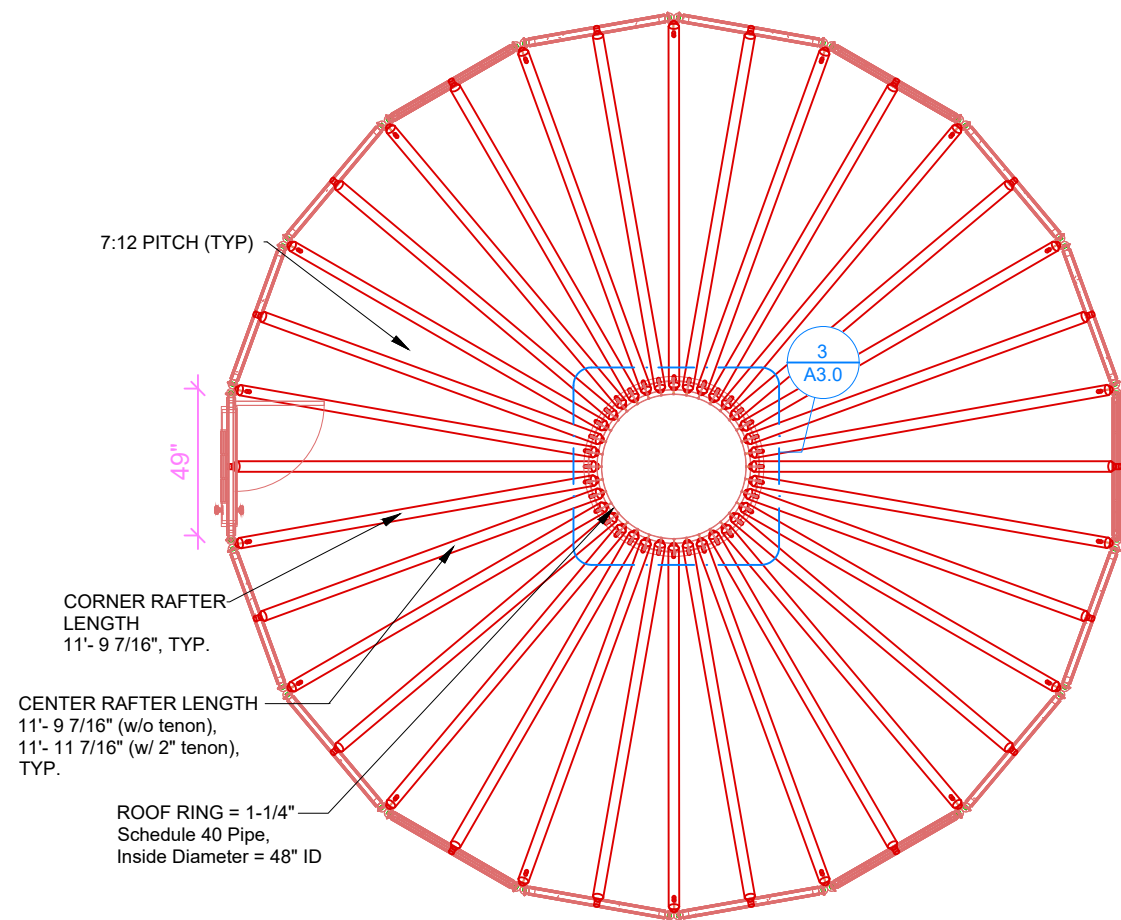
PROJECT NAME  
PROJECT LOCATION

1"  
Note: sheet is printed full size at 11"x17". The guide scale above will print 1" length, otherwise scale accordingly.

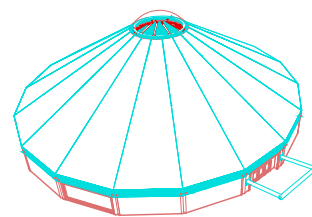
WINDOW UNIT  
DETAILS

SCALE:AS SHOWN

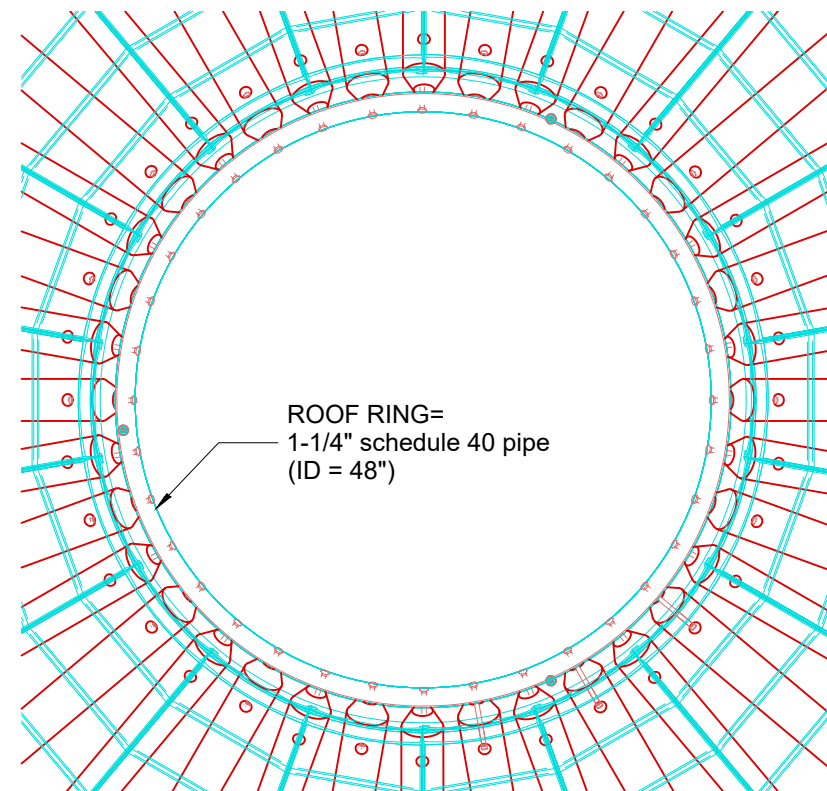
A2.2



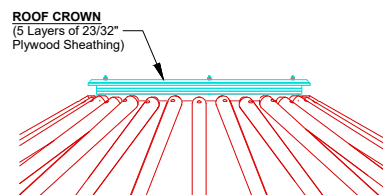
① ROOF FRAMING PLAN  
3/16" = 1'-0"



② ROOF FRAMING ISOMETRIC VIEW



③ ROOF RING DETAIL  
3/4" = 1'-0"



④ ROOF CROWN DETAIL



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**YURT-CABINS**  
FREEDOM YURT CABINS  
3200 CR100  
BUILDING 10  
FREEDOMYURTCABINS@GMAIL.COM  
(719) 362-3333

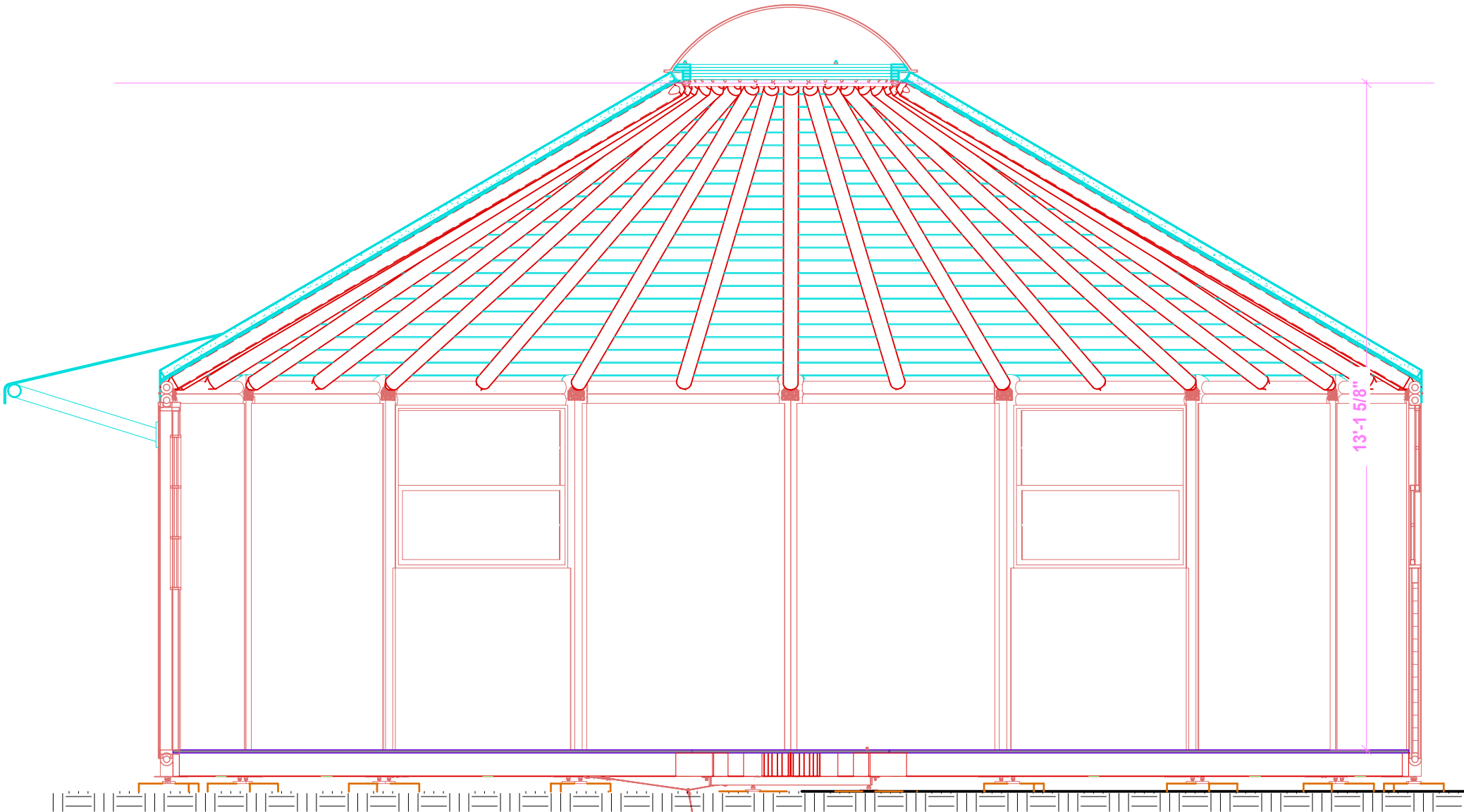
PROJECT NAME  
PROJECT LOCATION

1"  
Note: sheet is printed  
full size at 11"x17". The  
guide scale above will  
print 1" length,  
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accordingly.

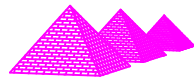
ROOF FRAMING  
PLAN AND DETAILS

A3.0

Distance from T.O. Floor Sheathing to B.O. Roof Ring= 13' 1 81/128"



① ROOF HEIGHT  
3/8" = 1'-0"



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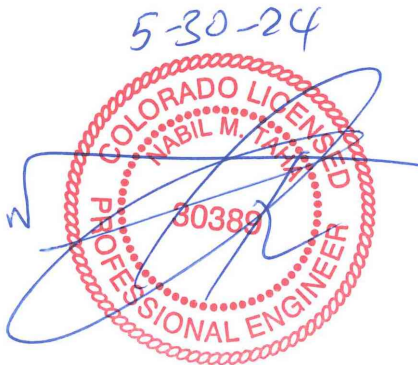
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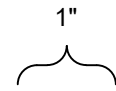
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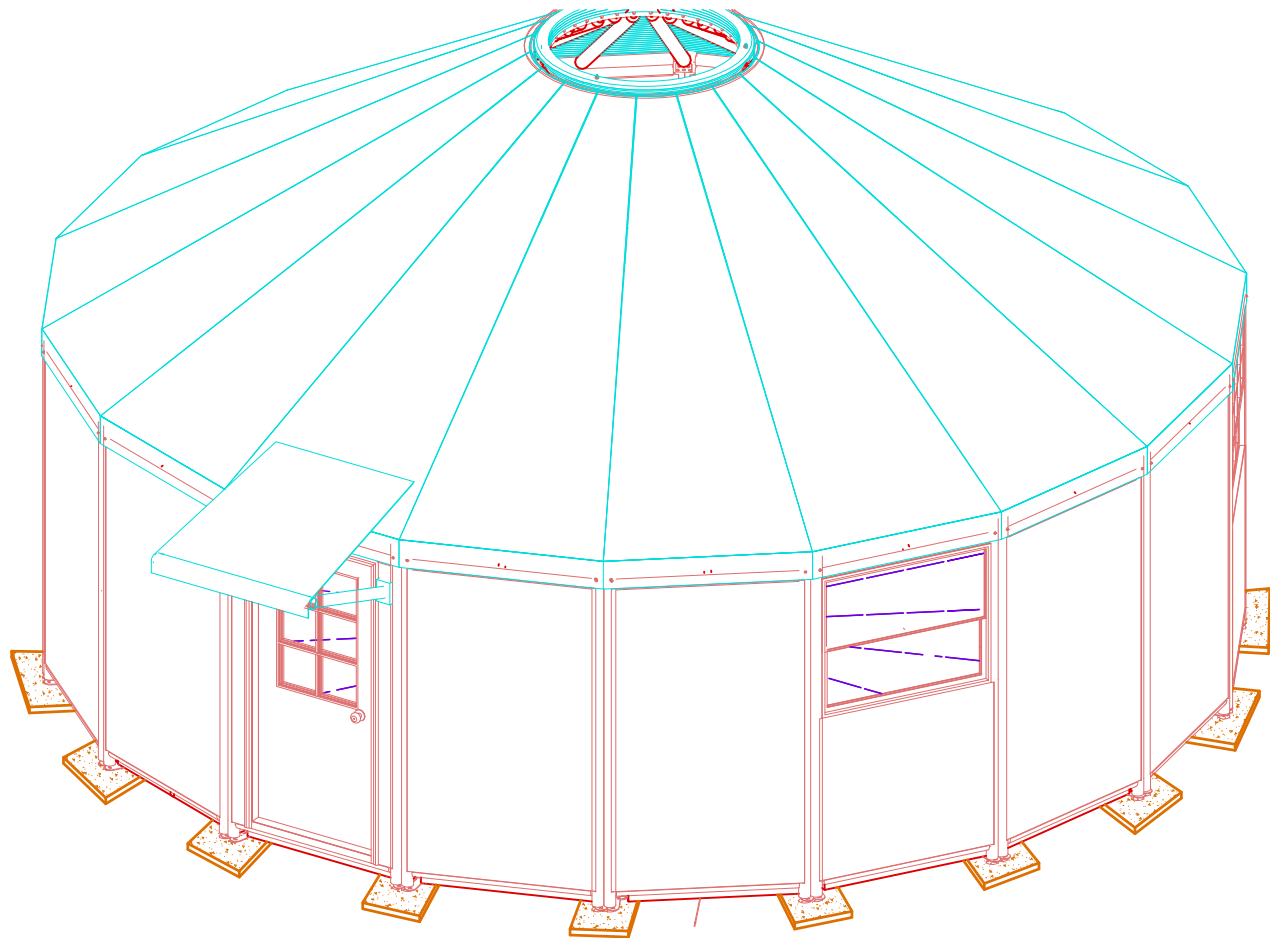
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ROOF HEIGHT

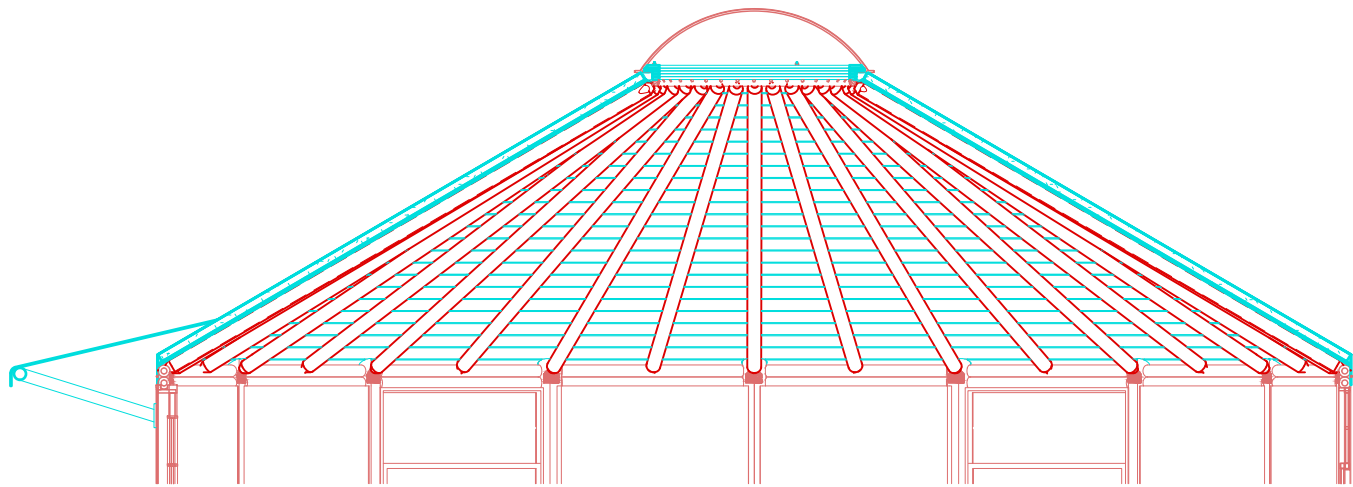
SCALE:3/8" = 1'-0"

A3.1

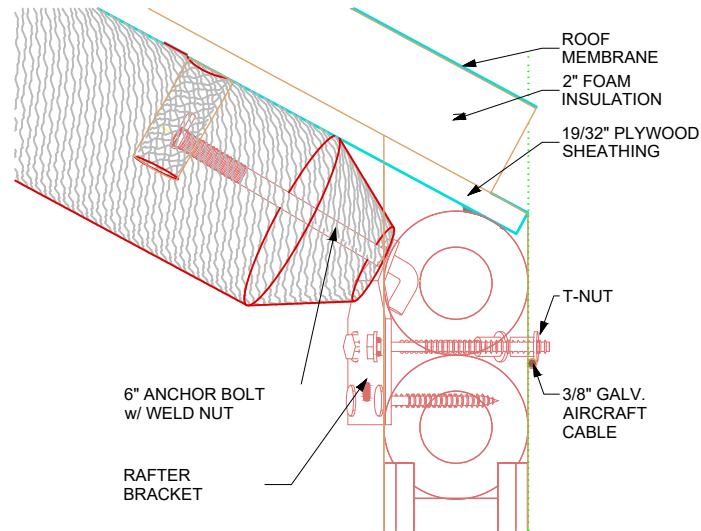




1 ROOF 3D VIEW  
1/4" = 1'-0"



2 ROOF SECTION  
1/4" = 1'-0"



3 ROOF TO WALL DETAIL

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ROOF DETAILS

A3.2



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PROJECT LOCATION

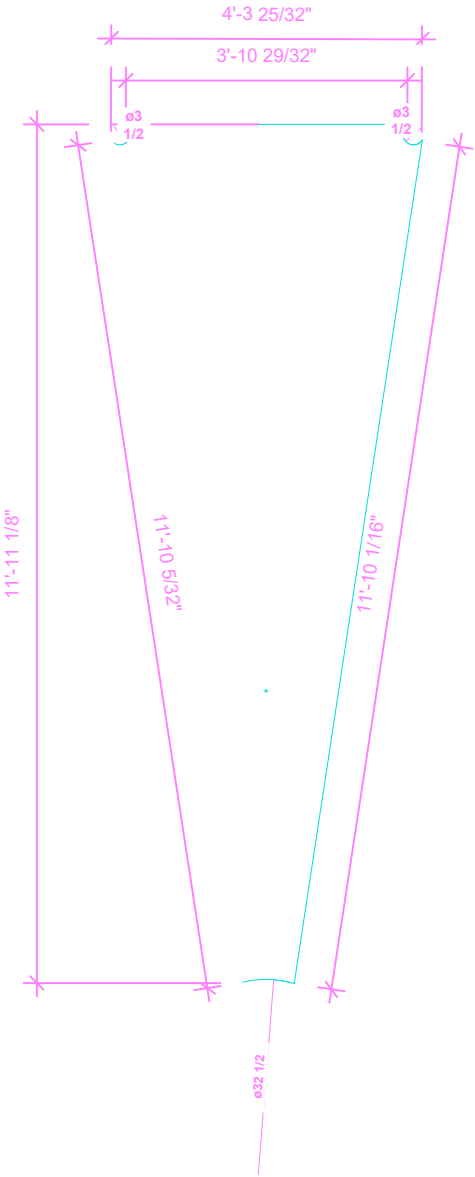
1"  
Note: sheet is printed  
full size at 11"x17". The  
guide scale above will  
print 1" length,  
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accordingly.

ROOF TRIANGLES

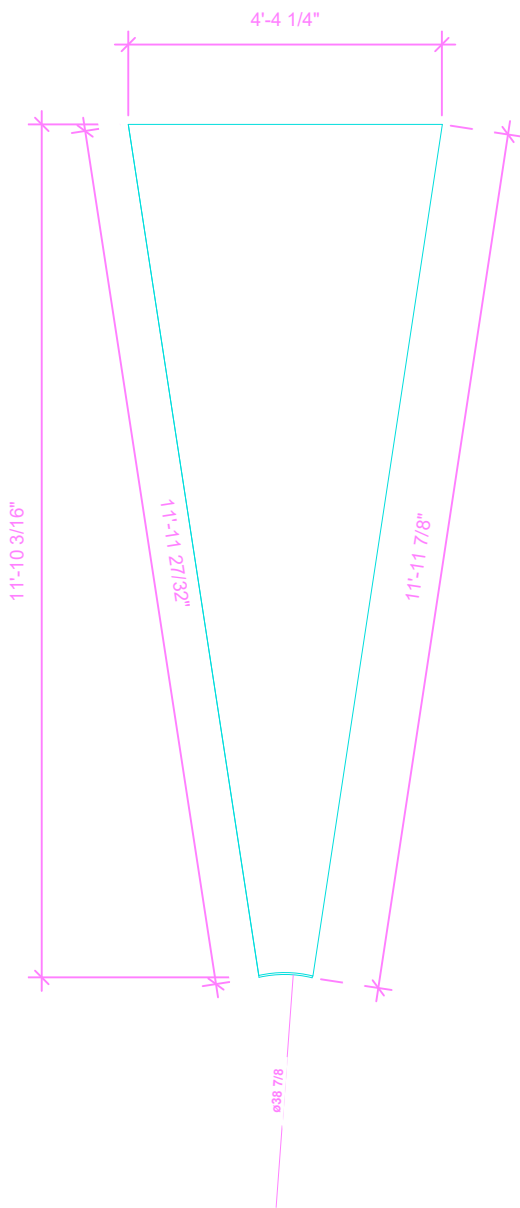
SCALE:3/8" = 1'-0"

A3.3

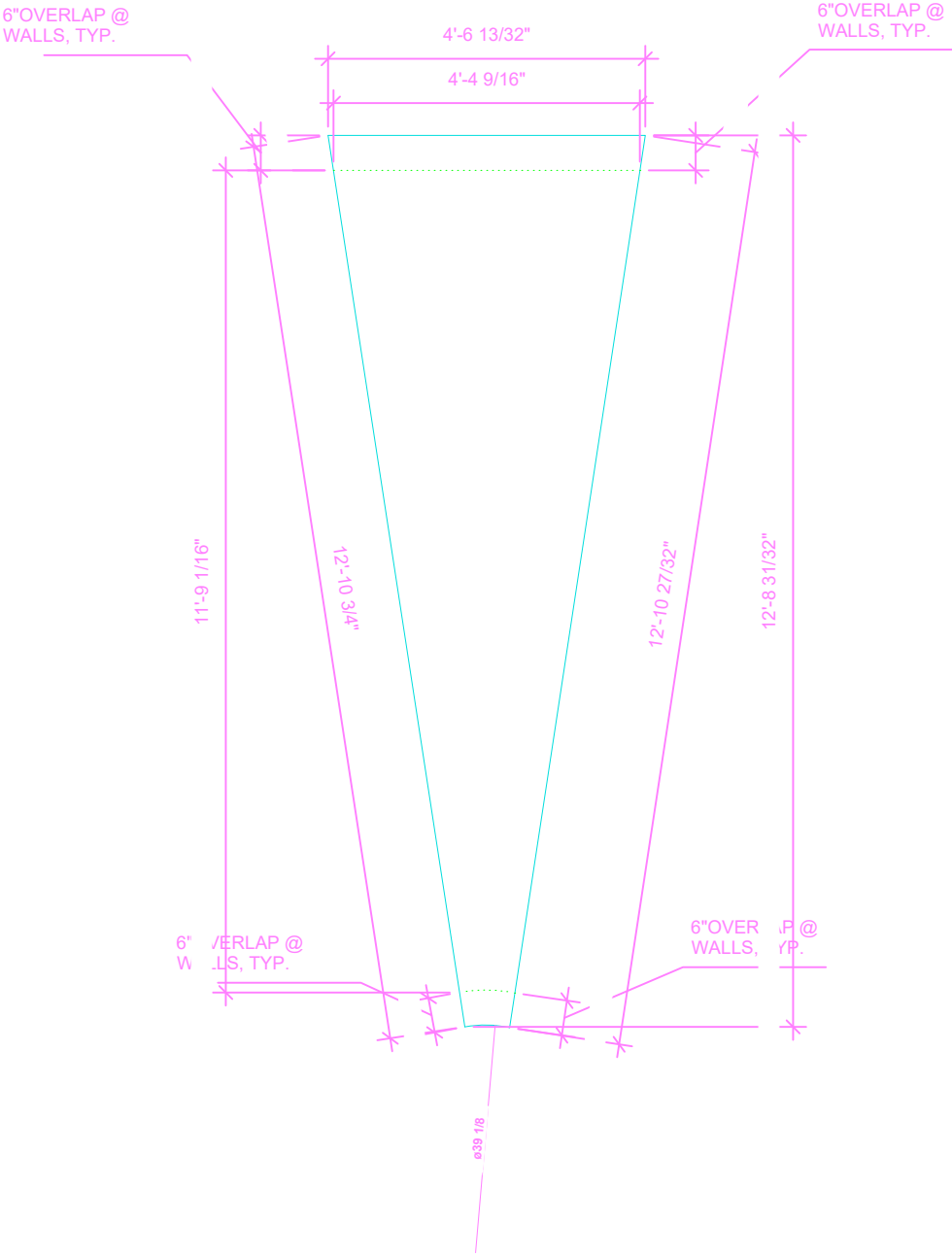
19/32" PLYWOOD SHEATHING



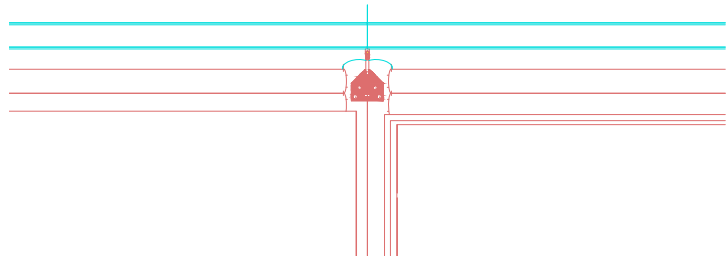
2" FOAM  
POLYISOCYANURATE  
INSULATION



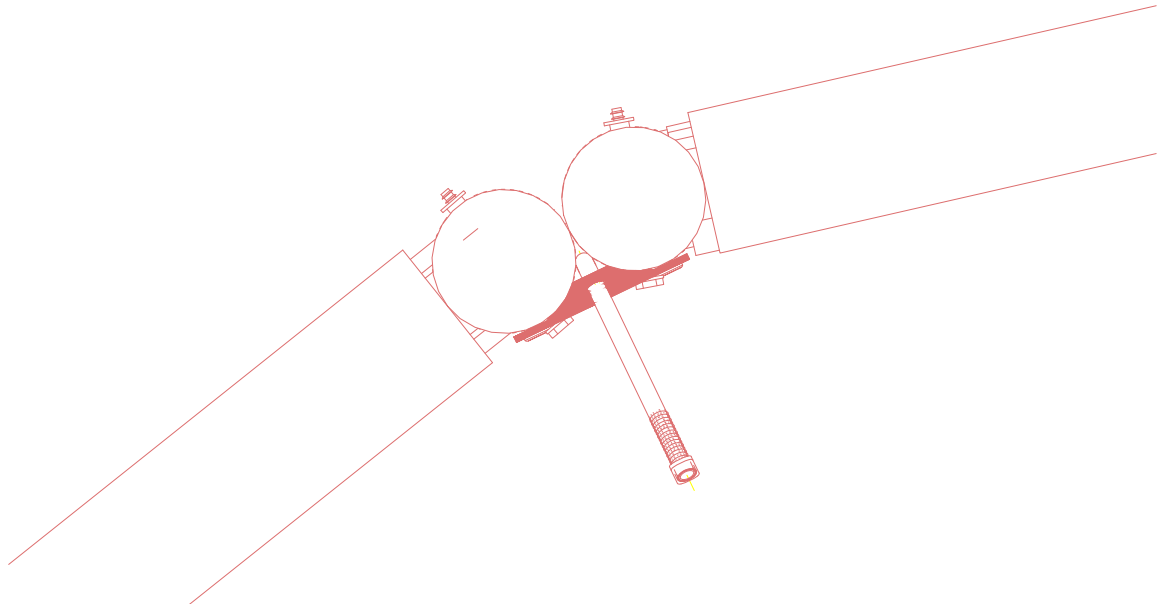
MEMBRANE



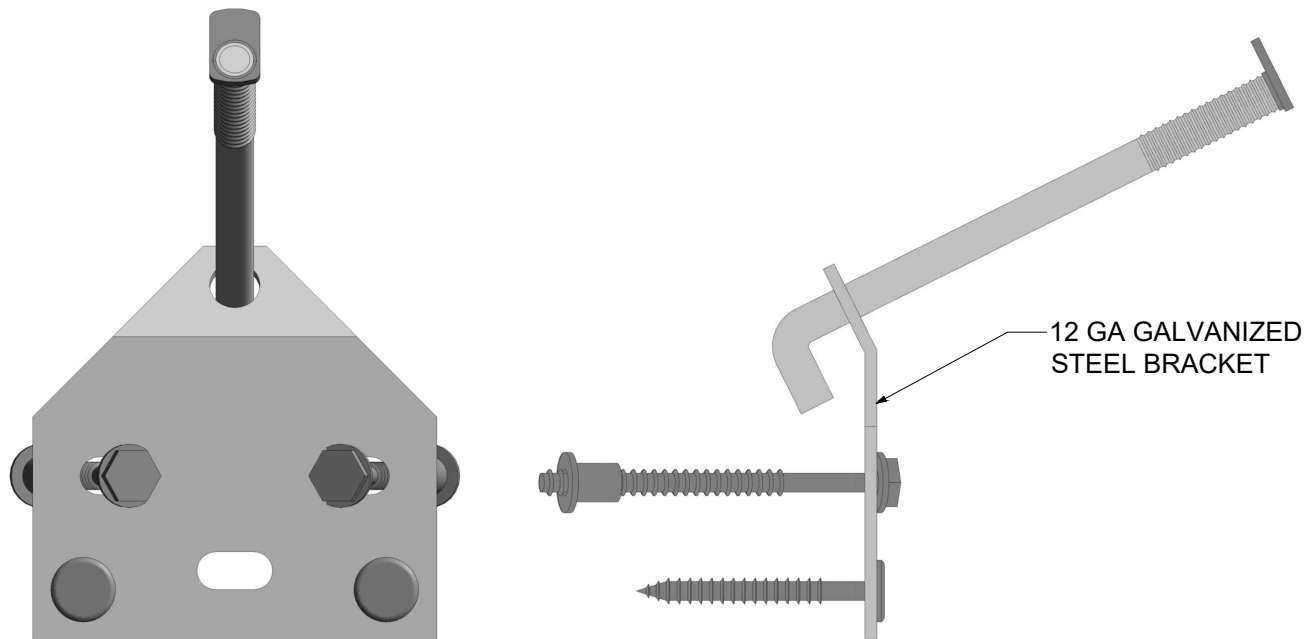
1 ROOF PANEL BASIC CUTS  
3/8" = 1'-0"



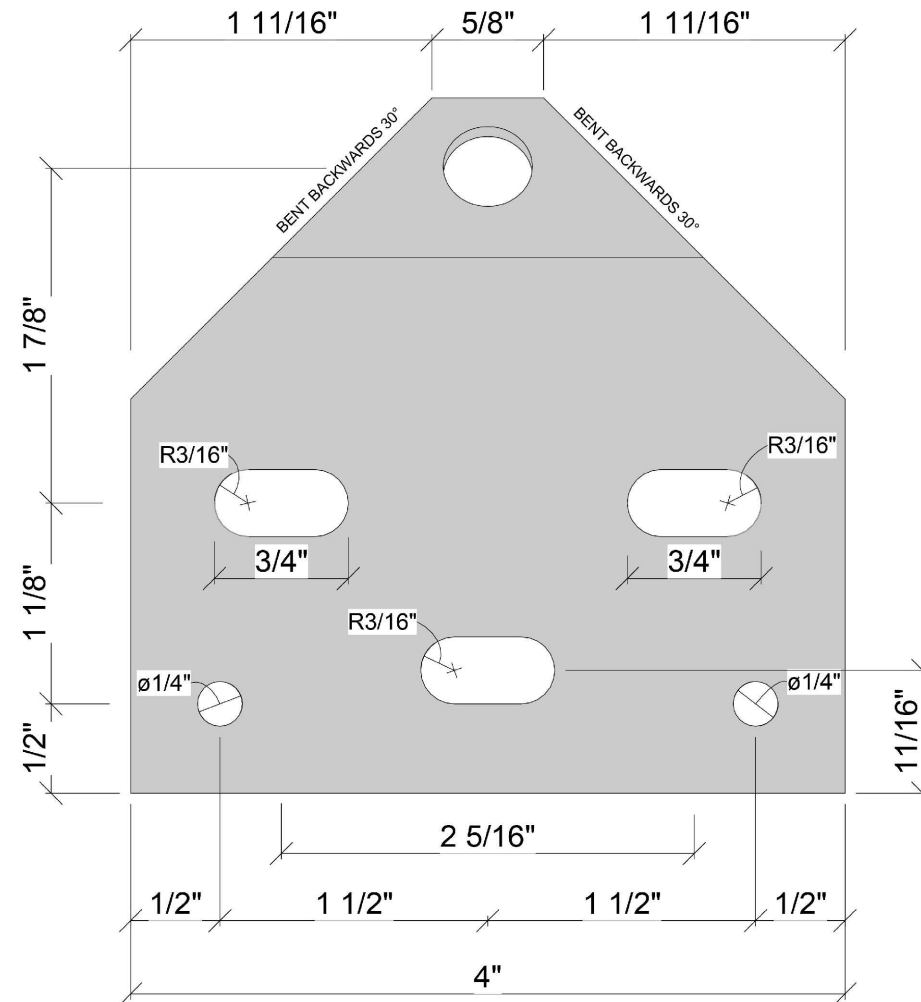
① CENTER ROOF RAFTER SECTION  
1/2" = 1'-0"



② CORNER ROOF RAFTER SECTION  
3" = 1'-0"



③ RAFTER BRACKET



④ RAFTER BRACKET

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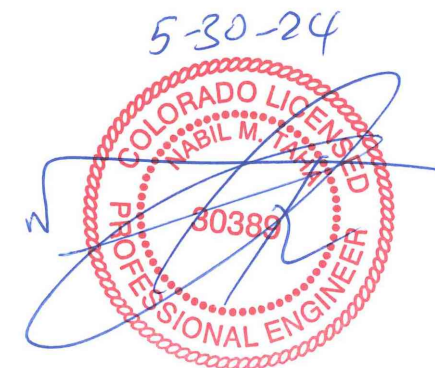


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RAFTER BRACKET  
DETAILS

A3.4



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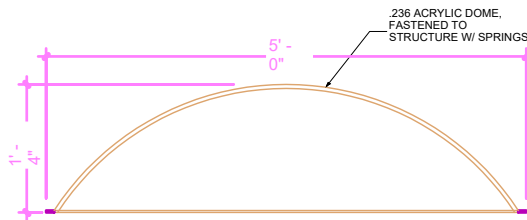
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SCALE:AS SHOWN

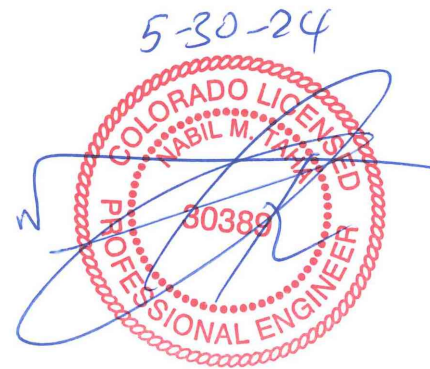


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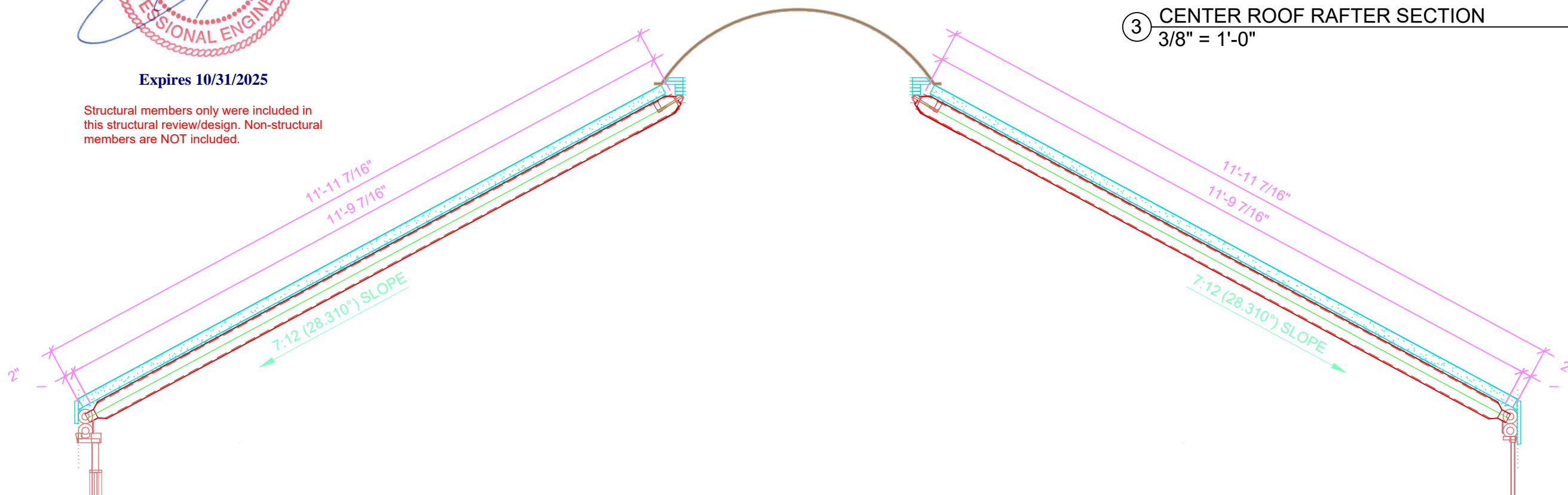


① CABIN DOME SECTION VIEW  
3/8" = 1'-0"

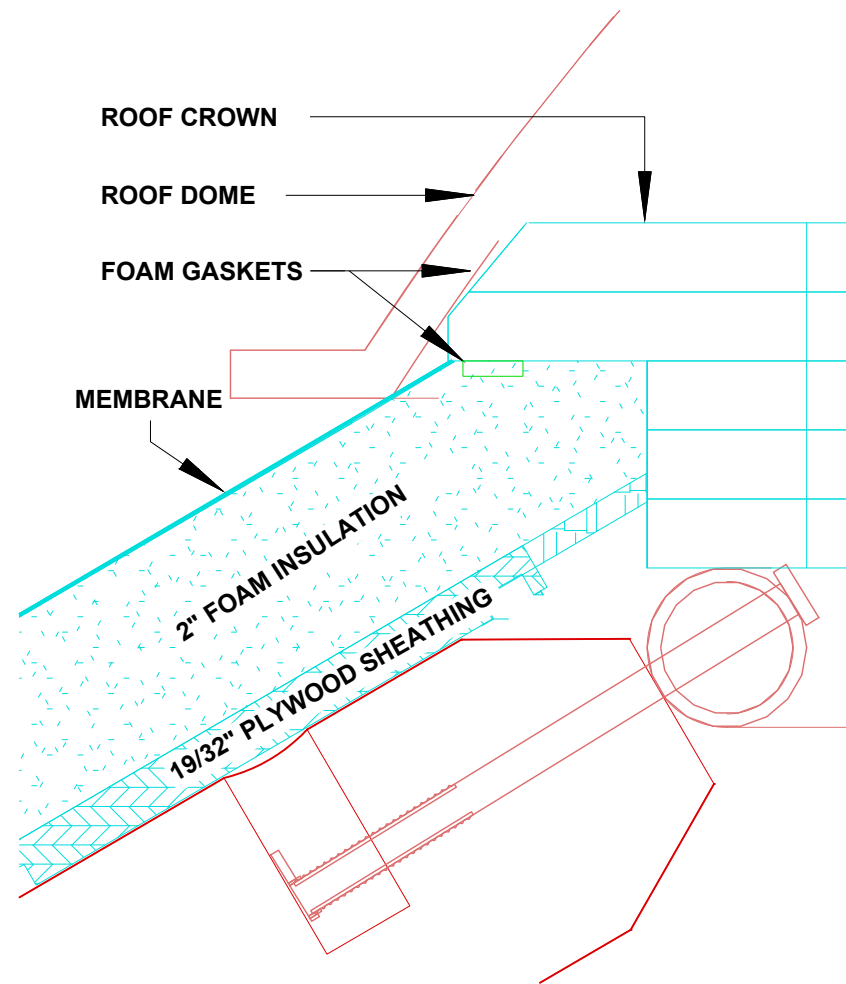


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② CENTER ROOF SECTION  
3/8" = 1'-0"



③ CENTER ROOF RAFTER SECTION  
3/8" = 1'-0"



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ACRYLIC DOME  
DETAILS

SCALE:AS SHOWN

A3.5