## CUP 23-29

**From:** Karla Gearheard [redacted]
**Sent:** Thursday, June 15, 2023 2:10 PM
**To:** Cynda Herrick <cherrick@co.valley.id.us>
**Subject:** Re: CUP 23-29

Hi Cynda,

I spoke with Cody at the building department about the 2 sheds on the property at 41 Stanley. He said that they have been there long enough that they were placed before permits were required and are ok to stay unless someone is going to sleep in them, which I assured him that will not be the case.

I have also provided the information on the dome here for the P&Z to review if they wish. This document addresses snow and wind loads for this structure, but a stamped engineered report is available if necessary. I also sent an email to the building department to find out what, if any, permit is required for this semi-permanent structure.

I didn't hi

Sent from Mail for Windows

PACIFIC DOMES™
585 Clover Lane Ste. 3
Ashland, OR 97520
[redacted]

# PACIFICDOMES

## Geodesic Domes Proposal

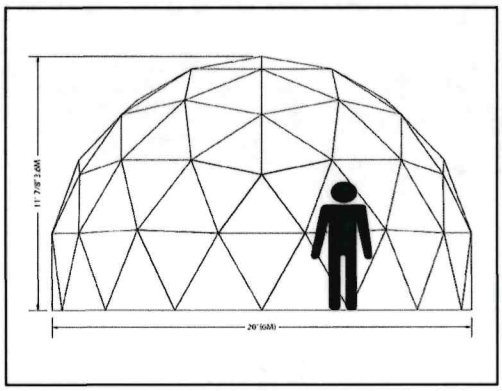
**Date:**
**Customer:**
**Description:** 20' Dome Home
**Location:**

PACIFIC DOMES™


# 20ft Dome Home (6M)

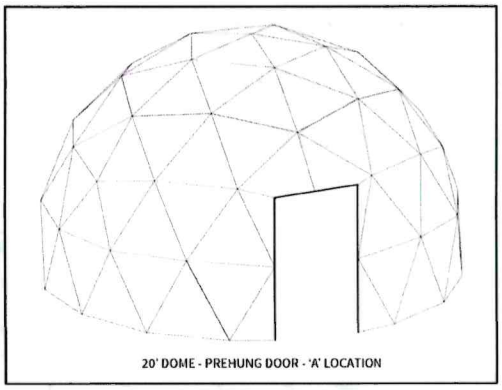
## Size & Weight

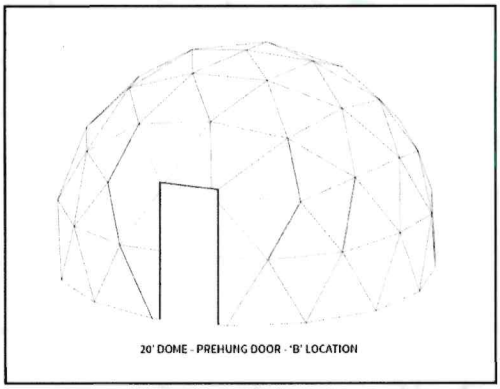
**Floor Area:** 296 sq.ft. (27 sq.meters)
**Ceiling Center Height:** 11.875 ft. (3.6 meters)
**Approx. Dome Weight:** 895 lbs. (406 kg.)
**Frame Package:** 60" x 28" x 21" (1.5 x 0.7 x 0.5 meters)
**Cover Package:** 32" x 32" x 34" (1 x 1 x .9 meters)
**Bay Window:** 7ft. H x 16ft. W (2.1×4.9 meters)



## Dwell Dome Package Includes

**Frame:** Standard Galvanized Steel Tubes & Hardware
**Cover:** Shelter Cover with Bay Window
**Doors:** Weather-tight Zipper Door or Pre Hung Door Opening
**Windows:** 6 Removable Round Windows
**Ventilation:** 2 Base Roll Ups with Zippers
**Anchoring:** Standard Anchor Plates
**Instructions:** Dome Care & Assembly Manual




PACIFIC DOMES™


## Dome Home Frames

Geodesic domes are the strongest structure known to man. Our galvanized steel frames are durable, strong and rust resistant. They can endure heavy snow loads, tropical rains, and hurricane winds up to 100 mph. Our standard .92" frame tubing is adequate for moderate conditions. Dome frames that are intended for areas with extreme weather may require engineering to ensure enduring structural integrity. If permitting is required, for a fee, a stamped engineering document can be provided. Our frames will support the use of hammocks and air chairs. Instructions for easy frame assembly are provided.


## Dome Home Covers

Our covers are made of **Sunshield** fabric, a water proof vinyl coated polyester with a UV protective coating. Mildew, dirt and stains are easy to clean. It weighs 19 oz. per sq.yrd. and has a 12-20 year life expectancy, and is available in many colors.

**Window Fabric**
Our windows are made of a high grade water proof, fire retardant marine vinyl. It is easy to clean and lasts up to 15 years. The marine vinyl comes with a 3 year prorated warranty.

**SunShield Fabric** is highly luminous fabric that allows solar passive heating. It is a vinyl coated polyester fabric. It has a protective film which increases the UV resistance. Because of its smooth surface, it is easy to clean. This cover is highly luminous.

- 12-20 yr. Life Expectancy
- Flame Resistant
- Waterproof
- Highly Resistant to Mildew
- Extra UV resistance
- 5-Year Pro-Rated Warranty
- Color choices


## Dome Home Doors

### Zipper Door

Our convenient fabric diamond door can be zipped open and closed from both inside and outside the dome.

### Pre Hung Door*

Our pre hung door ready option allows for a standard single or double door. Additional doors can also be added.

*Not Available on 16'.


## Dome Home Bay Windows

Your dome is manufactured with an elegant and extremely durable bay window that will offer a vantage of the surrounding world. Constructed from transparent marinevinyl, this large centerpiece will provide views and allow more natural light into your dome.


## Dome Home Windows

### Round Windows

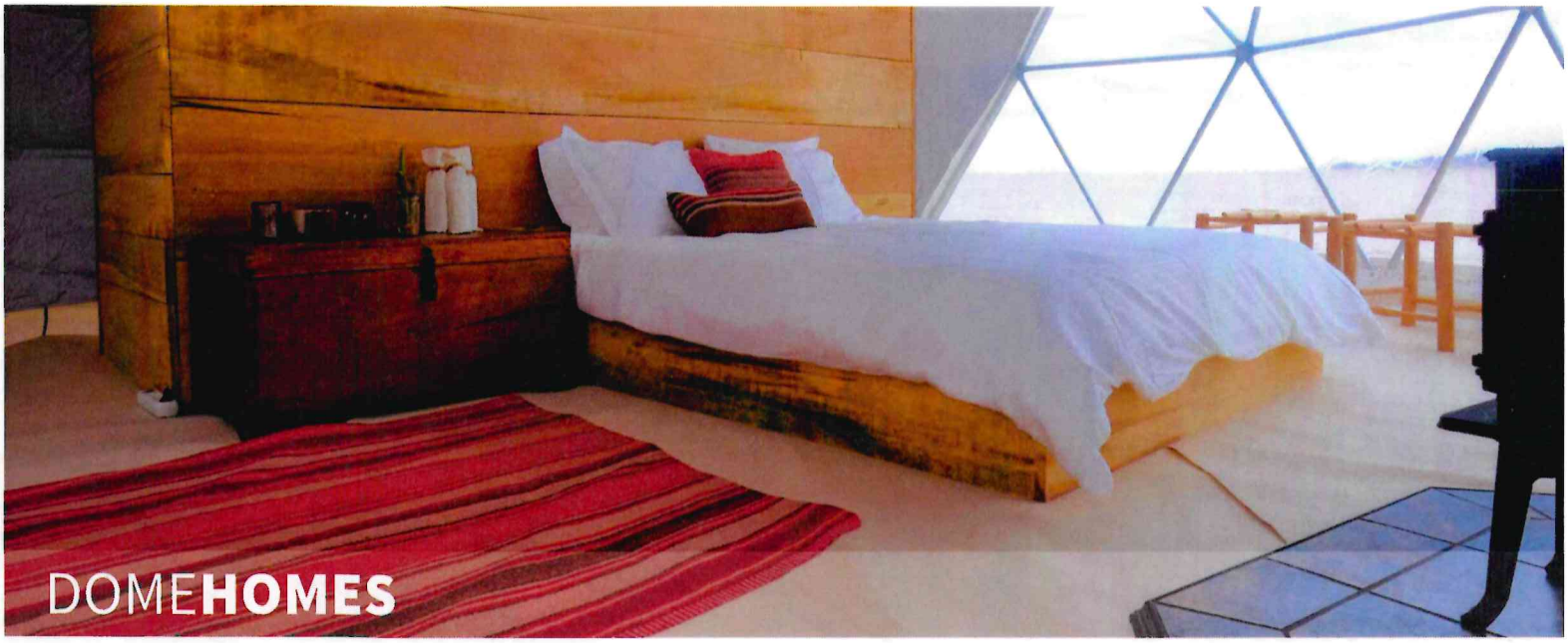
Our removable round windows are made with clear marine vinyl and are extremely durable. The are included with every dome, and interchangeable screens can be purchased.

### Skylight Windows

Our Optional skylight is an upgrade, made of UV resistant clear vinyl, zips in, replacing the roof of any size dome. It allows a wealth of additional light into the dome.

### Bay Windows

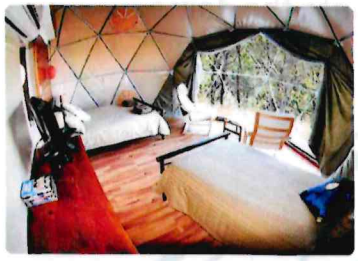
Each dome is manufactured with an elegant and extremely durable bay window. The large window is made with marine vinyl and sewn into the dome skin, allowing the interior of the dome to be illuminated with natural lighting.




## Dome Home Floors

**Perimeter Board**
For domes with earthen or tile floors, we recommend a perimeter board. It is perfect for a nomadic lifestyle. You can also use a plastic tarp with a carpet on top. The frame sits on top of the perimeter board and the cover is secured to the outside of the perimeter board with grommets to anchor your dome and keep the fabric off the ground. It works best with the zip door. Domes with prehung doors do not work well with perimeter boards. If you plan to use a prehung door with your perimeter board, you will either be stepping over the perimeter board or removing it at the ground level and sealing the gap above your door. can be purchased.

**Portable Mandala**
The initial intricate construction of the Portable Mandala floor allows for effortless assembly. This method enables assembly of the floor and disassembly under 12 hours.



**Stationary Joist**
We recommend a joist deck for people that don't expect to move their domes. This is the quickest and easiest method but it does not enable mobility.

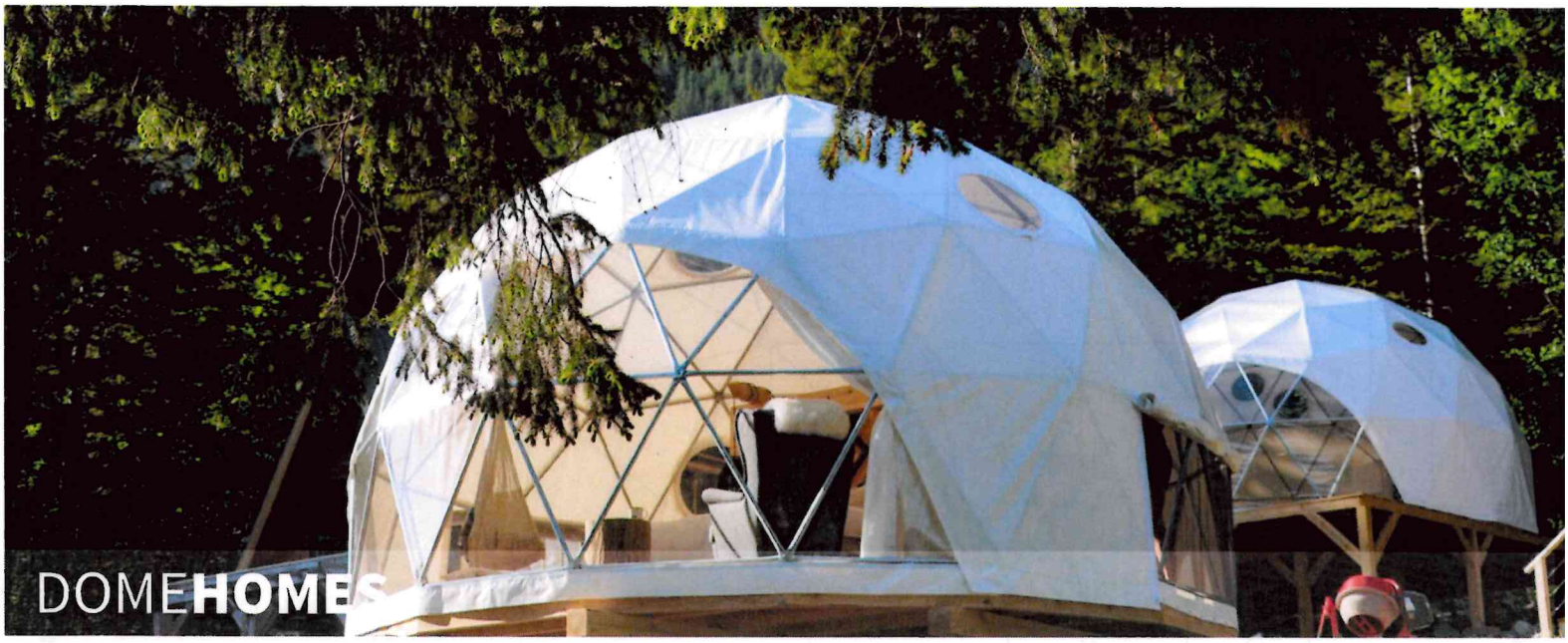
**Tub Floor**
Pacific Domes offers a Heavy Duty vinyl floor that curves up the side wall in order to keep standing water out. For colder climates, we recommend an insulated floor, using Thinsulate* sandwiched between two layers of vinyl. Vinyl floors are available in many colors. The above cream colored floor worked well with the salt flat in Bolivia!


## Solar Fan

Powered completely by free solar energy, this sleek and efficient vent is both compact and quiet. Fully operational right from the box, it installs easily, with no electrical wiring.
And let's not forget powerful! Our 24 watt unit can fully vent up to 2,100 sq. ft. (up to 1,339 cfms).
Proper venting cools your roof, and in turn extends the life of your cover.


## Stove Cap & Flashing

Comfortable temperatures can be maintained inside the dome while snow flurries outside. A flashing for venting your wood, pellet, masonry or gas stove can fit into any window frame. A modified pipe cap is provided to prevent creosote from dripping on your fabric.




## Ventilation

### Roof Screens
Roof screens are available for added ventilation. The roof can also be zipped out for greatly increased air flow.

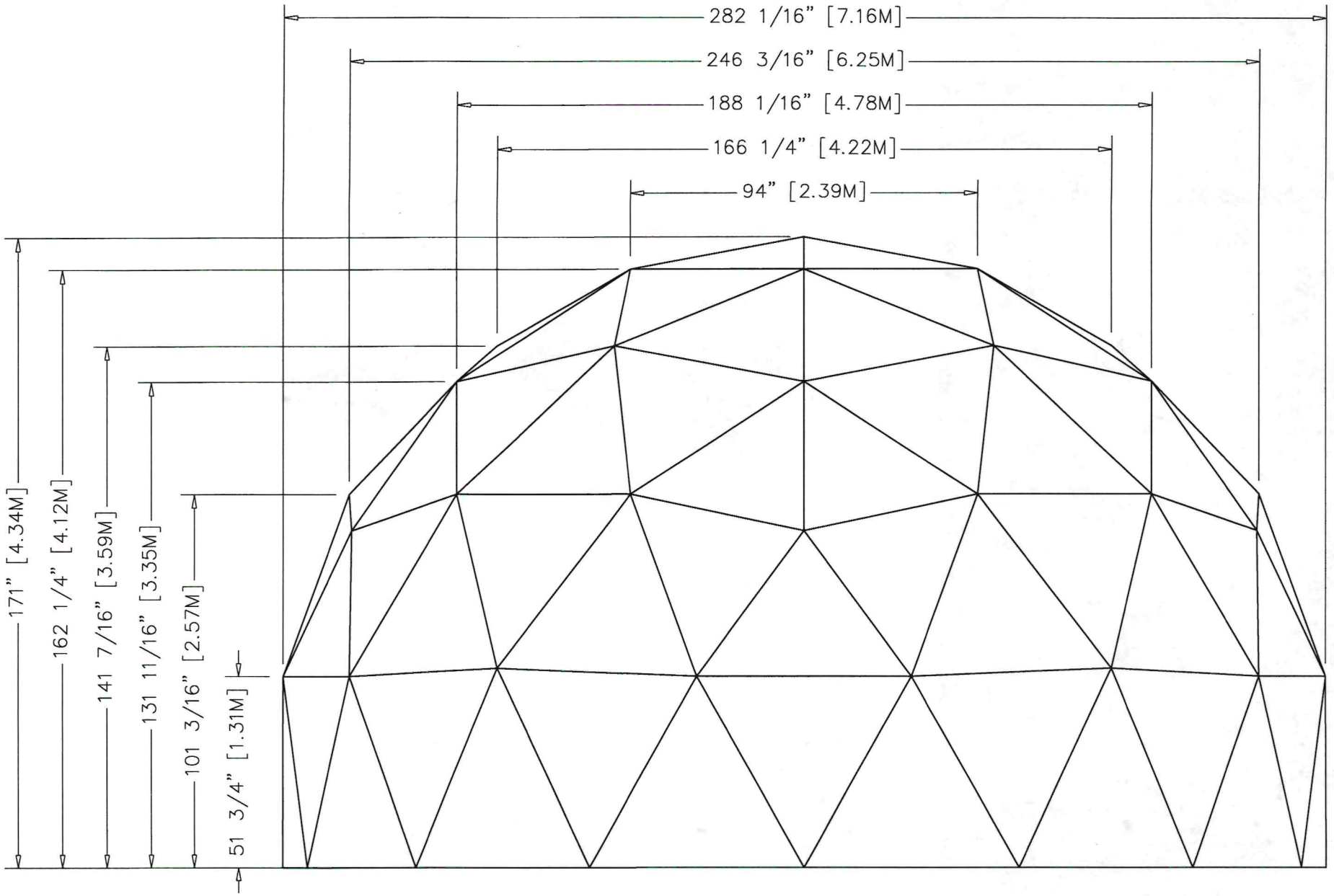
### Door Screens
Door screens are available for increased ventilation. The door can be (zipped) open for added airflow.

### Window Screens
Window screens are available for ventilation. Each window can also be removed to allow cross ventilation.

### Base Rollups
The base of the dome rolls up to allow cross ventilation. This can be combined with the removal of windows, or adding of screens.

### Solar Fan Air Vent
Our Solar Fan is solar powered and is the most technically advanced, environmentally friendly air vent solution for your Pacific Dome.

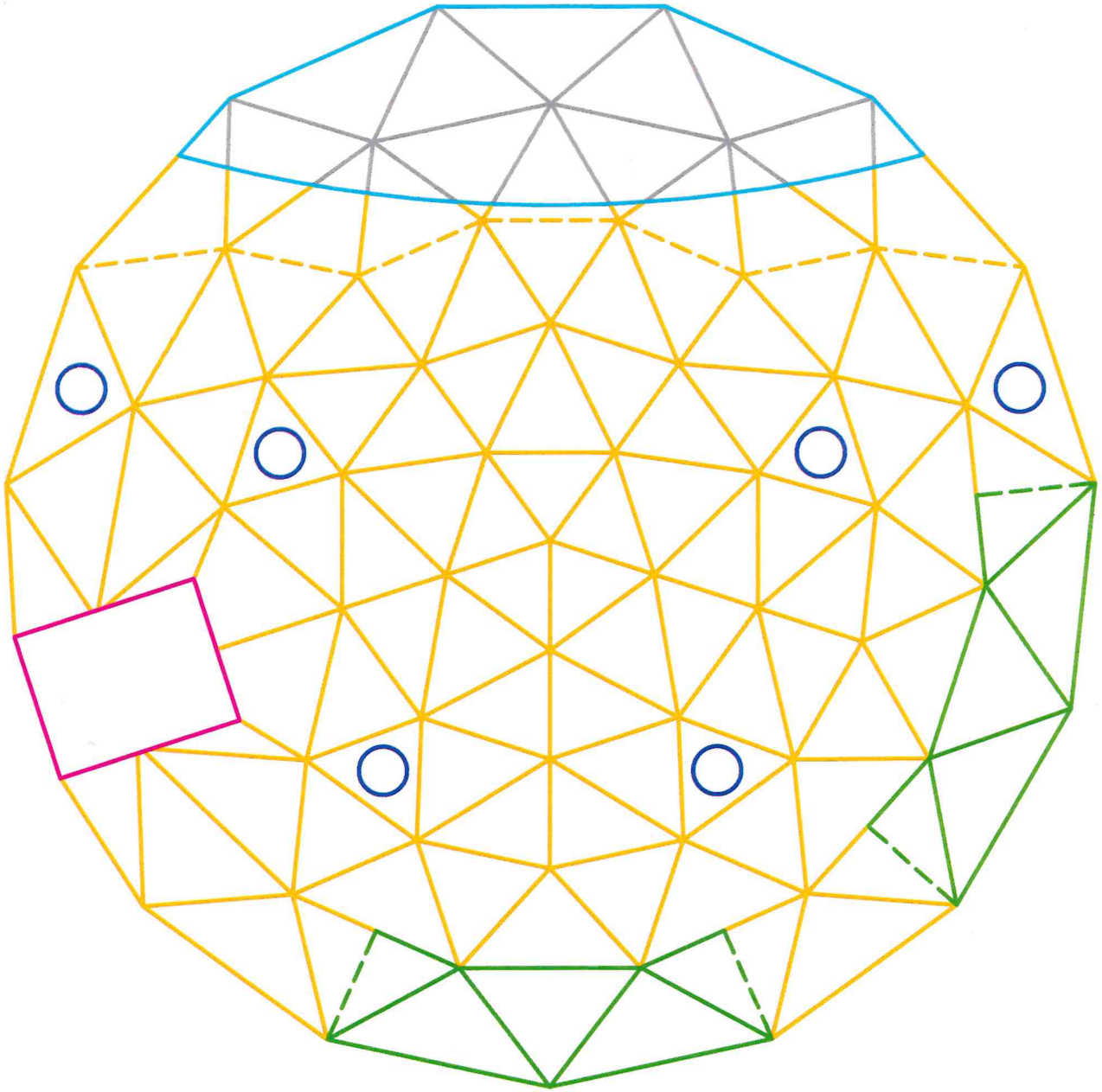
### Cap & Vent Flashing
Each dome comes with an optional stove vent flashing and cap for wood stove installation. Comfortable temperatures can be maintained inside the dome while snow storms flurry outside.




# 24' DOME ELEVATION

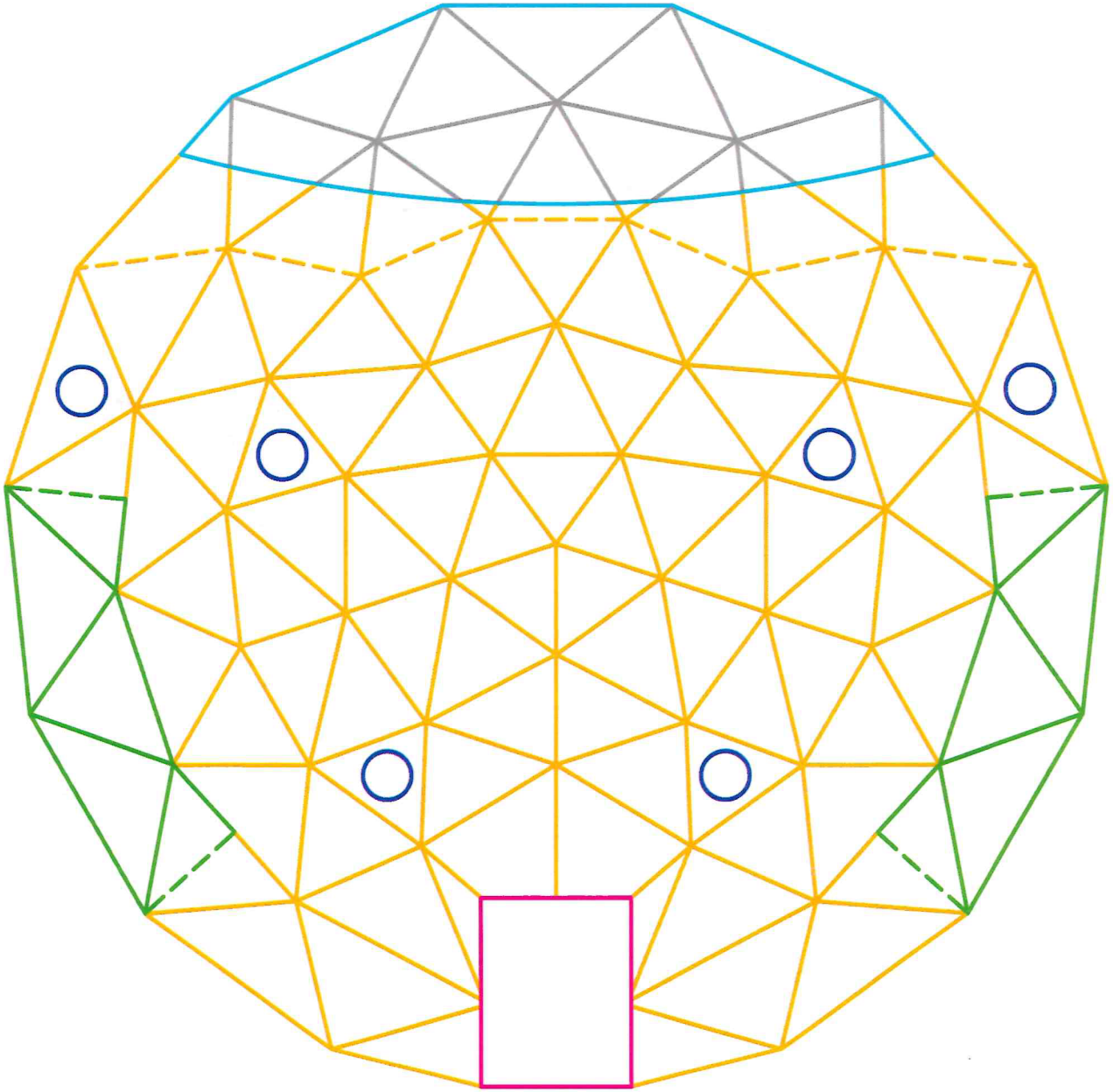


| PACIFIC DOMES | DRAWING NAME: | DRAWING NUMBER: | DATE: | DRAWN BY: | PAGE: | REV: |
|---|---|---|---|---|---|---|
| | 24' DOME ELEVATION | SD-24-12 | 21 AUG 2013 | TES | 1 OF 1 | A |



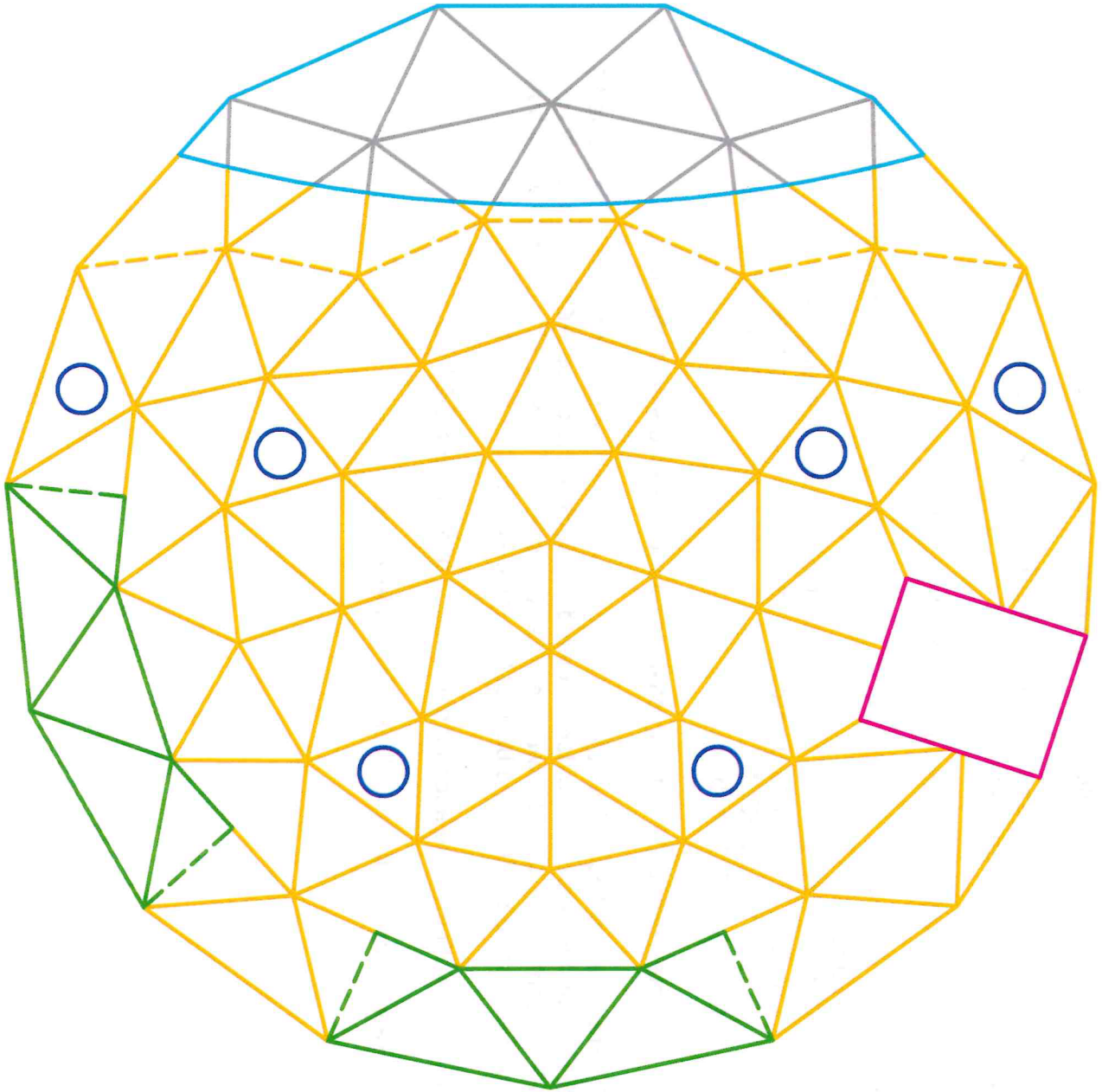
PACIFIC DOMES®
585 CLOVER LANE STE. 3, ASHLAND OR, 97520
OFFICE: [redacted]

| | | | |
|---|---|---|---|
| CLIENT NAME: - | SERIAL NUMBER: - | DOME SIZE: 20' | BY AFFIXING MY SIGNATURE TO THIS DOCUMENT, I AGREE THAT THIS OVERHEAD DIAGRAM REPRESENTS THE DESIRED ORIENTATION OF DOME FEATURES. |
| CLIENT SIGNATURE: | DATE: | FRAME SIZE: - | |



PACIFIC DOMES®
585 CLOVER LANE STE. 3, ASHLAND OR, 97520
OFFICE: [redacted]

| | | | |
|---|---|---|---|
| CLIENT NAME: - | SERIAL NUMBER: - | DOME SIZE: 20' | BY AFFIXING MY SIGNATURE TO THIS DOCUMENT, I AGREE THAT THIS OVERHEAD DIAGRAM REPRESENTS THE DESIRED ORIENTATION OF DOME FEATURES. |
| CLIENT SIGNATURE: | DATE: | FRAME SIZE: - | |



PACIFIC DOMES®
585 CLOVER LANE STE. 3, ASHLAND OR, 97520
OFFICE: [redacted]

| | | | |
|---|---|---|---|
| CLIENT NAME: - | SERIAL NUMBER: - | DOME SIZE: 20' | BY AFFIXING MY SIGNATURE TO THIS DOCUMENT, I AGREE THAT THIS OVERHEAD DIAGRAM REPRESENTS THE DESIRED ORIENTATION OF DOME FEATURES. |
| CLIENT SIGNATURE: | DATE: | FRAME SIZE: - | |

# 20 Foot Dome Deck, Joist Method, One PHD-A
# (Metric and Imperial with Imperial Lumber)

1. Lay out the pier blocks according to Sheet 1 of drawing SD-20-24. Dig each pier block into the ground an inch or two and make each one level with itself.

2. Cut and lay out the beams according to Sheet 1. Leave the ends of the beams long (extending past the perimeter of the floor). Cut them later.

3. Level the beams with various lengths of 4 x 4 atop piers.

4. Cut the 8 "C", 5 "D", 2 "E", 1 "F", 1 "G" and 1 "U" boards from the nine 2x6x10 ft. boards.
   Cut the 1 "H" and 1 "T" boards from the two 2x6x12 ft. boards.
   Cut the 1 "I" and 1 "S" boards from the two 2x6x16 ft. boards.
   Cut the 1 "J", 1 "K", 1 "L", 1 "M", 1 "N", 1 "O", 1 "P", 1 "Q" and 1 "R" boards from the nine 2x6x20 ft. boards.

   Note: All board length dimensions refer to the long side of the board,

5. Frame according to Sheet 2 of drawing SD-20-24. The center of joist "N" is located 1 5/16" from the center of the dome, toward the back of the dome. All other joists will be 16" on center from joist "N" with the exception of joists "G" and "U". "G" and "U" will butt up to the inside of "D" at the back of the dome and "F" at the door.

6. Cover with plywood according to Sheet 3 of drawing SD-20-74.

7. Rasp, sand and finish with exterior grade varnish.

# 20-A PHD-38X81.75-4X6-(JOIST)
# Board Cut and Material List

## Board Cut List

| Letter | Qty. | Size (Nominal) | Size (Actual) | Length[1] | Ends[2] |
|---|---|---|---|---|---|
| A | 2 | 4x6 - 100x150 | 3 1/2"x 5 1/2" - 89mm x 140mm | 240" - 6096mm | 0° |
| B | 2 | 4x6 - 100x150 | 3 1/2"x 5 1/2" - 89mm x 140mm | 144" - 3658mm | 0° |
| C | 8 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 49 11/16" - 1262mm | 12° - 12° |
| D | 5 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 48 5/8" - 1236mm | 12° - 12° |
| E | 2 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 26 5/8" - 676mm | 13° - 5° |
| F | 1 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 45" - 1143mm | 5° - 5° |
| G | 1 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 54 5/8" - 1387mm | 66° - 66° |
| H | 1 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 128 7/16" - 3262mm | 66° - 66° |
| I | 1 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 162 7/8" - 4137mm | 42° - 42° |
| J | 1 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 192 1/8" - 4879mm | 42° - 42° |
| K | 1 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 209 7/8" - 5331mm | 18° - 18° |
| L | 1 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 220 1/4" - 5595mm | 18° - 18° |
| M | 1 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 230 11/16" - 5859mm | 18° - 18° |
| N | 1 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 230 13/16" - 5863mm | 6° - 6° |
| O | 1 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 227 1/4" - 5772mm | 6° - 6° |
| P | 1 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 223 3/4" - 5681mm | 6° - 6° |
| Q | 1 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 211 1/16" - 5362mm | 30° - 30° |
| R | 1 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 192 15/16" - 4900mm | 30° - 30° |
| S* | 1 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 174 3/4" - 4438mm | 30°/54° - 30°/54° |
| T | 1 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 132 1/16" - 3354mm | 54° - 54° |
| U | 1 | 2x6 - 50x150 | 1 1/2" x 5 1/2" - 38mm x 140mm | 60 7/8" - 1497mm | 79° - 79° |
| - | 16 | 4x4 - 100x100 | 3 1/2" x 3 1/2" - 89mm x 89mm | As required | 0° |
| - | 12 | 3/4" | | 4' x 8' | As required |

## Material List

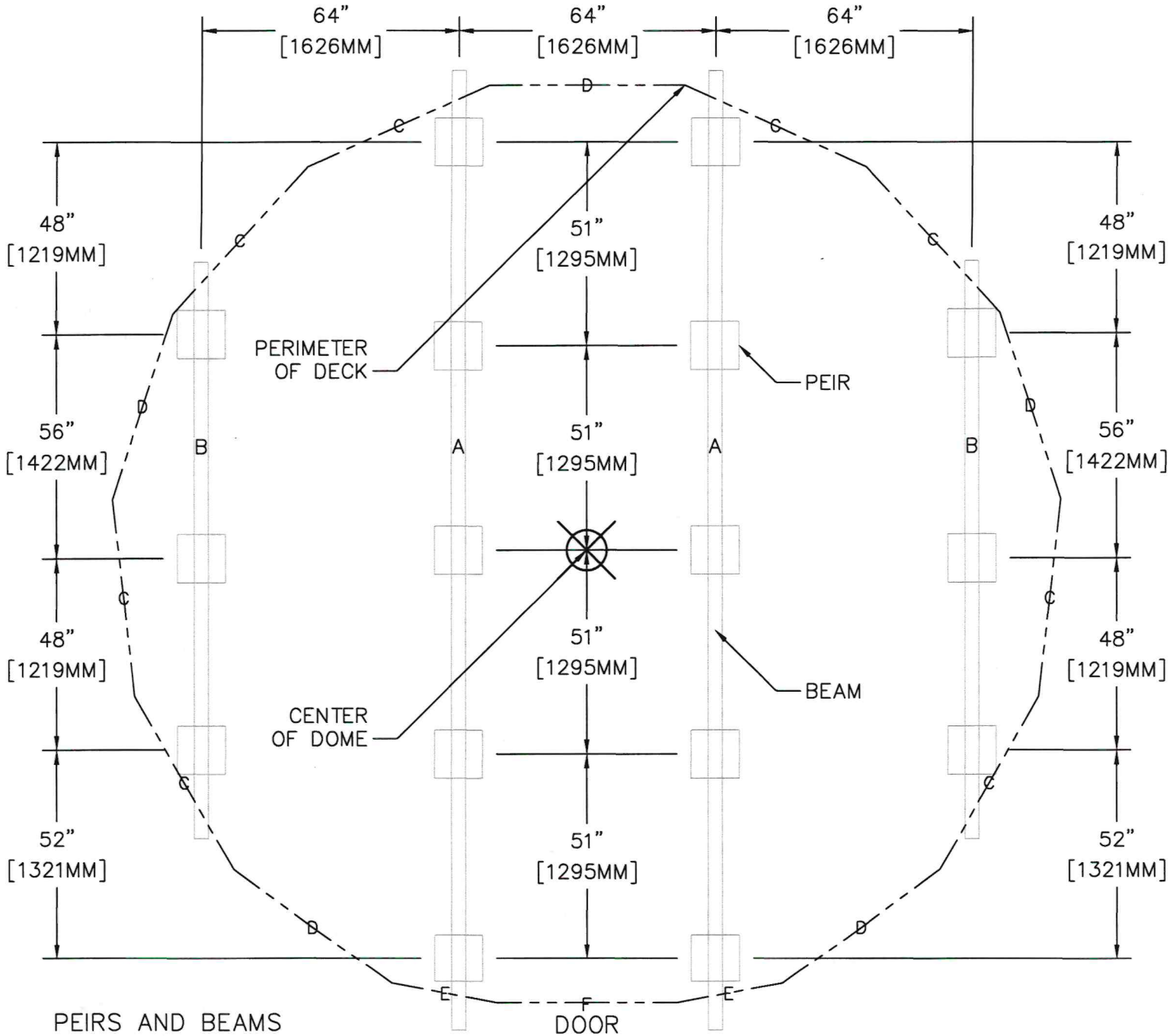
| Qty. | Item | Material Alocation |
|---|---|---|
| 16 | Pier blocks | Piers |
| As required | 4" x 4" | Posts |
| 2 | 4" x 6" x 20' | A |
| 2 | 4" x 6" x 12' | B |
| 9 | 2" x 6" x 20' | J,K,L,M,N,O,P,Q,R |
| 2 | 2" x 6" x 16' | I,S |
| 2 | 2" x 6" x 12' | H,T |
| 9 | 2" x 6" x 10' | C,D,E,F,G,U |
| 10 | lbs. of 16d galvanized box nails[3] | Fasteners |
| 12 | Sheets of 3/4" plywood | Cladding |
| 10 | lbs. of 8d galvanized box nails[3] | Fasteners |
| 2 | Gallons exterior varnish | Finish |

[1] All lengths in inches and millimeters and for the long side of the board.

[2] Angles shown are the angles of the material cut off. For angles less than 45°, this is the angle of the saw setting.

[3] Screws may be substituted for nails to afford portability of floor.

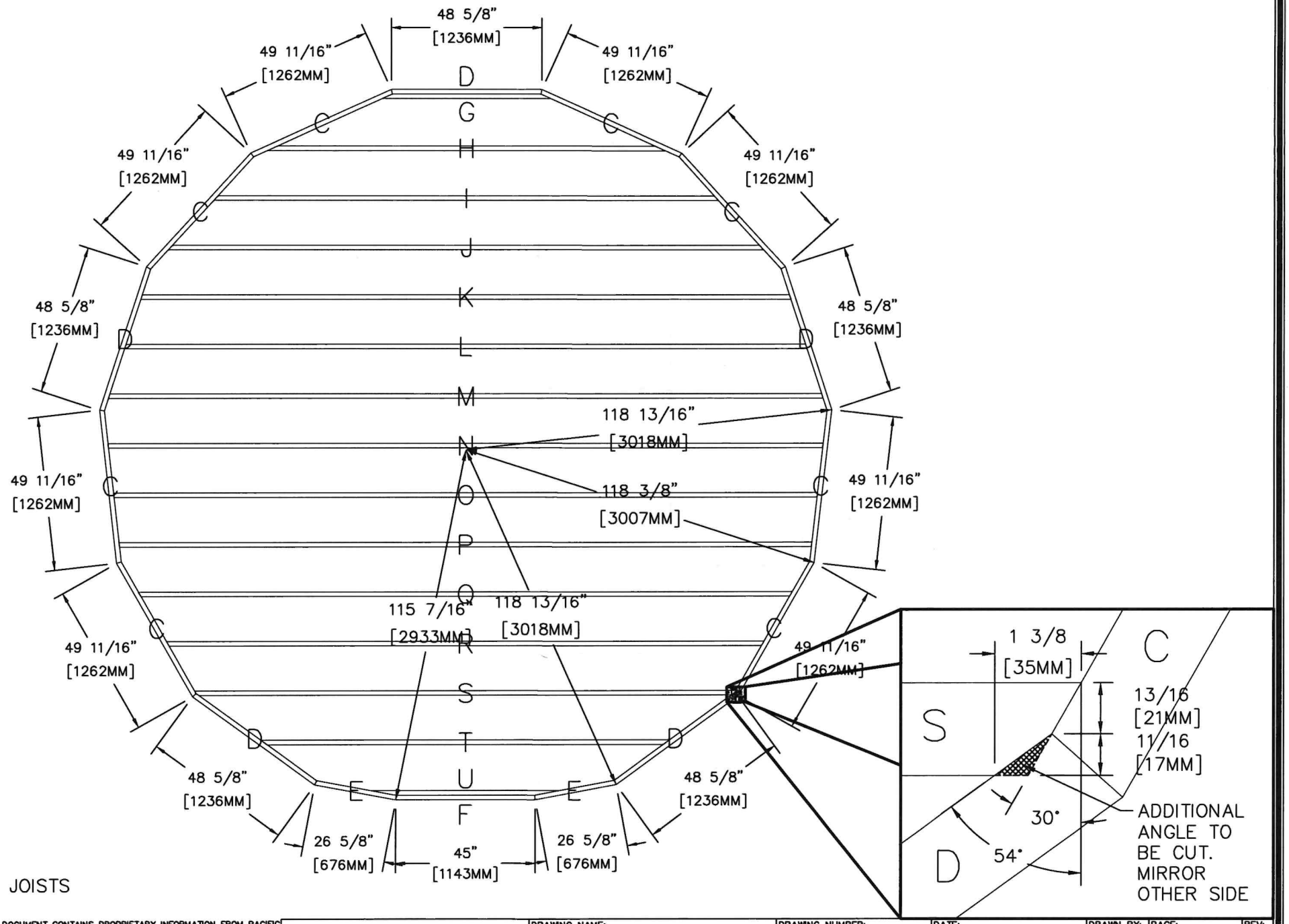
* Board 'S' will require two cuts to meet the angle requirements. See Diagram SD-20-24 sheet 2 for more detail.




PEIRS AND BEAMS



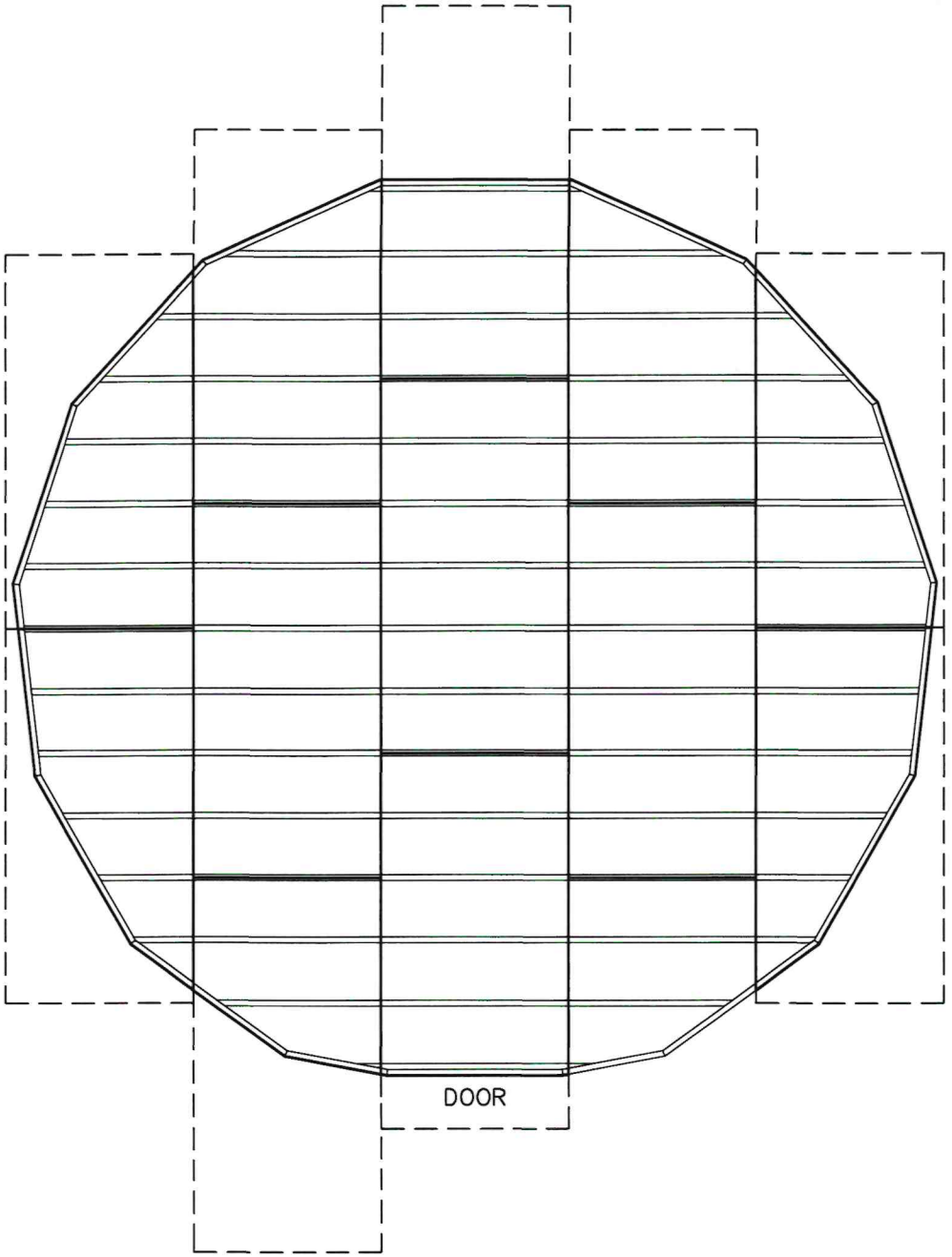
| PACIFIC DOMES | DRAWING NAME: | DRAWING NUMBER: | DATE: | DRAWN BY: | PAGE: | REV: |
|---|---|---|---|---|---|---|
| | 20-A PHD-38X81.75-4X6-JOIST | SD-20-24 | 16 MAR 2022 | NOT | 1 OF 3 | – |




JOISTS



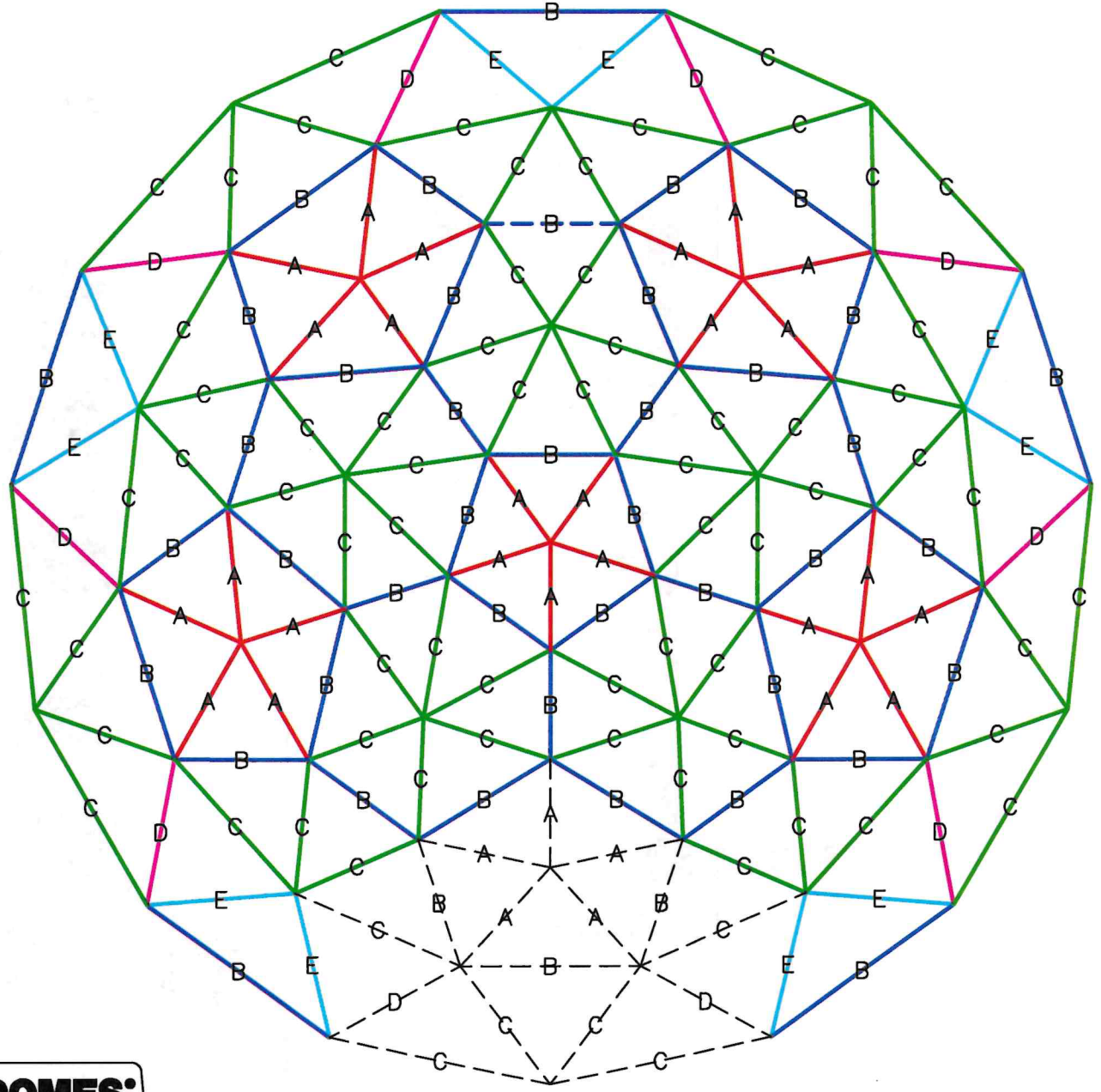
| PACIFIC DOMES | DRAWING NAME: | DRAWING NUMBER: | DATE: | DRAWN BY: | PAGE: | REV: |
|---|---|---|---|---|---|---|
| | 20-A PHD-38X81.75-4X6-JOIST | SD-20-24 | 16 MAR 2022 | NOT | 2 OF 3 | – |




PLYWOOD



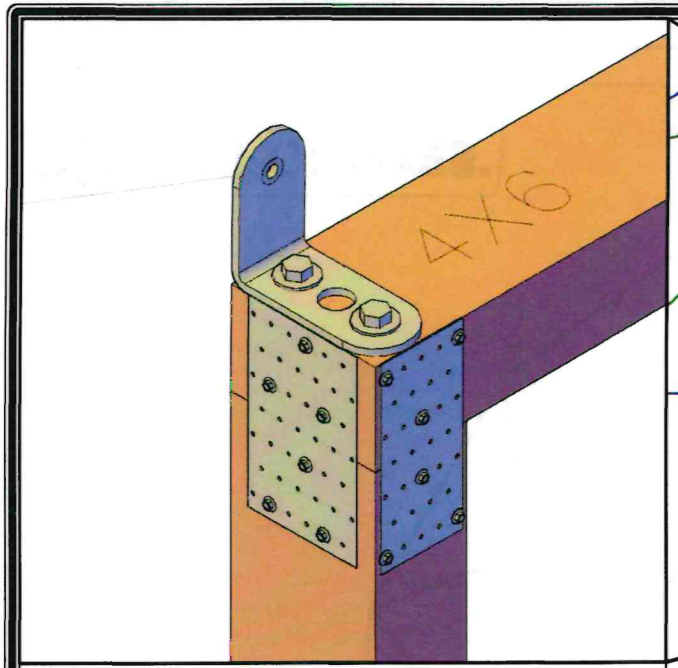
| PACIFIC DOMES | DRAWING NAME: | DRAWING NUMBER: | DATE: | DRAWN BY: | PAGE: | REV: |
|---|---|---|---|---|---|---|
| | 20-A PHD-38X81.75-4X6-JOIST | SD-20-24 | 16 MAR 2022 | NOT | 3 OF 3 | – |

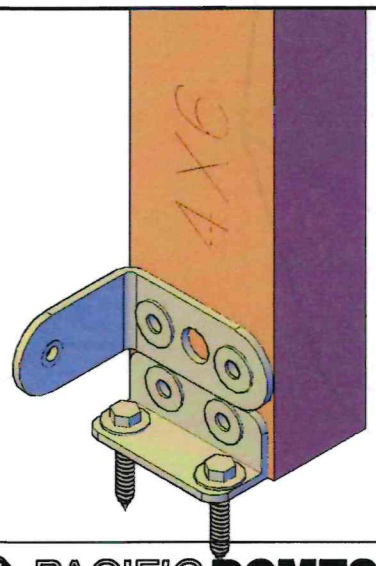


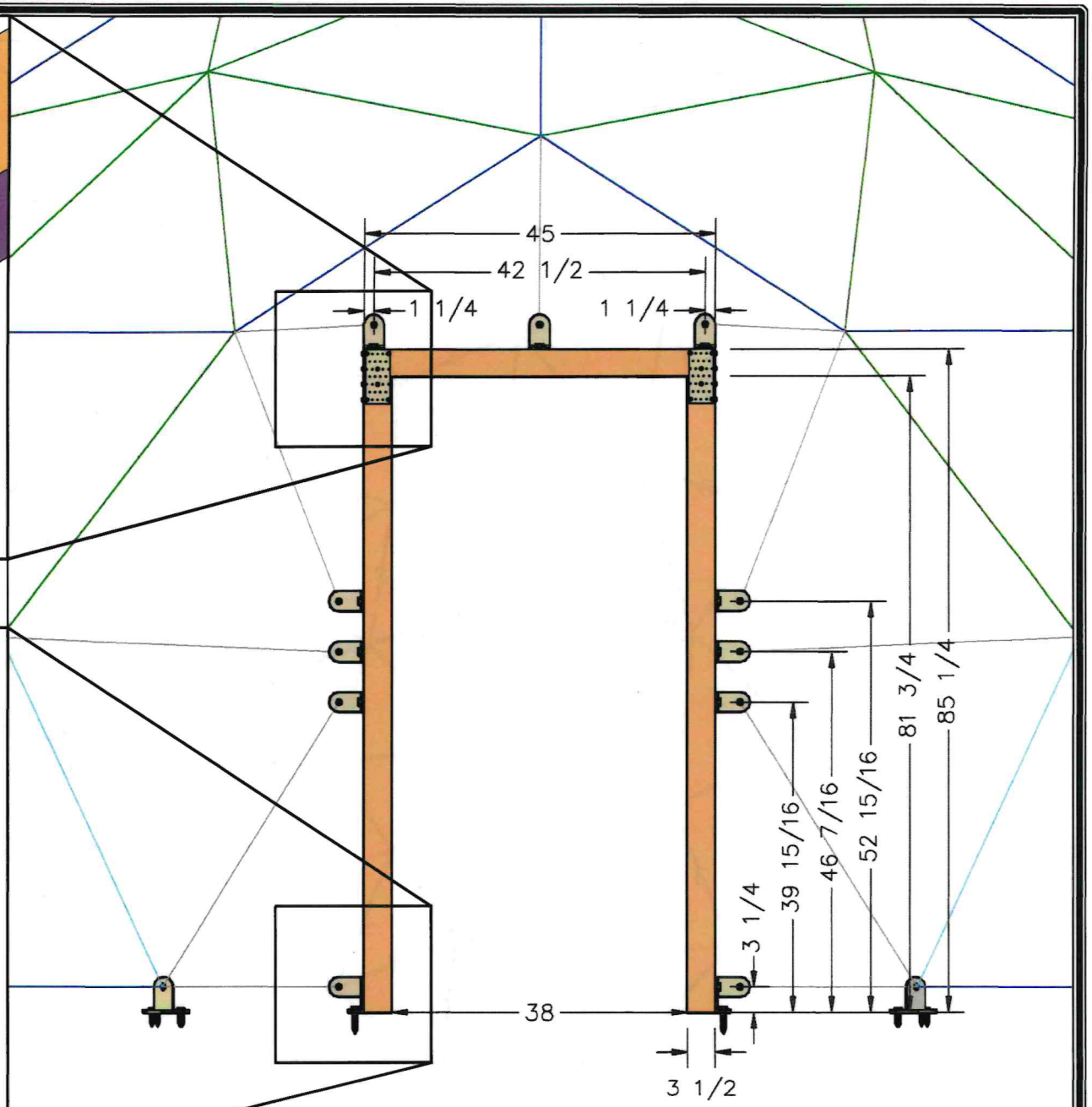
PACIFIC DOMES
585 CLOVER LANE STE. 3, ASHLAND OR, 97520
OFFICE: [redacted]

AFTER THE DOME FRAME IS ERECTED, REMOVE THE SIXTEEN DASHED STRUTS (ABOVE) THEN REPLACE WITH DOOR FRAME AND DOOR STRUTS (PAGES 3&4).

| | | | | |
|---|---|---|---|---|
| DRAWING TITLE: 20-A PHD-38X81.75-4X6 | DRAWING NUMBER: SD-20-20 | PAGE: 2 OF 4 | | |
| DESCRIPTION: DOME FRAME PREPARATION | DATE: 30 MAR 2022 | REVISION: B | DRAWN BY: NOT | |



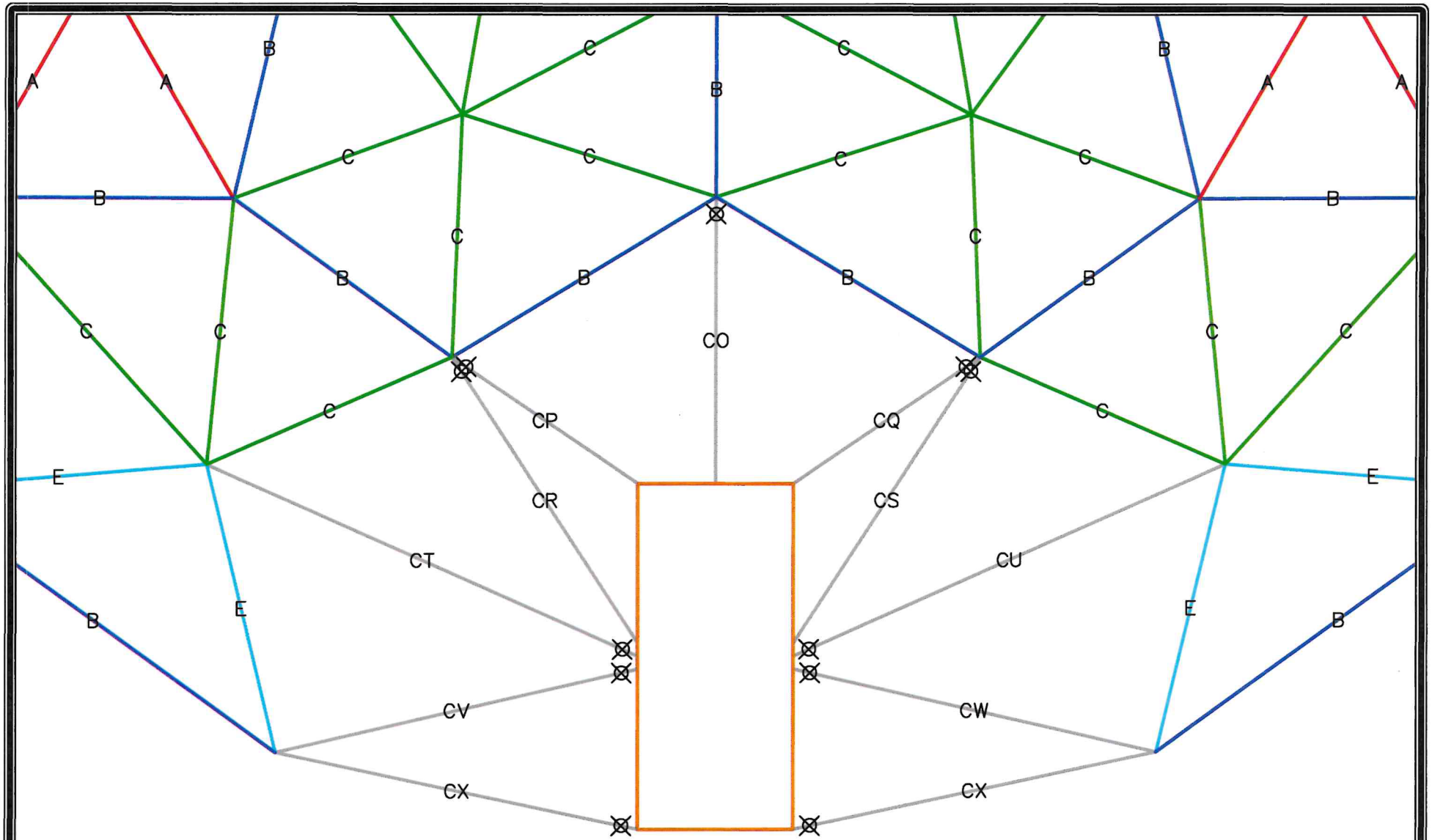




PACIFIC DOMES
585 CLOVER LANE STE. 3, ASHLAND OR, 97520
OFFICE: [redacted]

VIEWED FROM OUTSIDE OF DOME
CENTER OF LAG SCREW HOLES ALIGNED WITH INDICATED DIMENSIONS

| DRAWING TITLE: | DRAWING NUMBER: | PAGE: | |
|---|---|---|---|
| 20-A PHD-38X81.75-4X6 | SD-20-20 | 3 OF 4 | |
| DESCRIPTION: | DATE: | REVISION: | DRAWN BY: |
| DOOR FRAME AND ANCHOR PREPARATION | 30 MAR 2022 | B | NOT |




PACIFIC DOMES
585 CLOVER LANE STE. 3, ASHLAND OR, 97520
OFFICE: [redacted]

VIEWED FROM OUTSIDE OF DOME
⊗ INDICATES END OF STRUT WITH STAMPED IDENTIFIER

| | | | | |
|---|---|---|---|---|
| DRAWING TITLE: 20-A PHD-38X81.75-4X6 | DRAWING NUMBER: SD-20-20 | PAGE: 4 OF 4 | | |
| DESCRIPTION: DOOR STRUT INSTALL | DATE: 30 MAR 2022 | REVISION: B | DRAWN BY: NOT | |