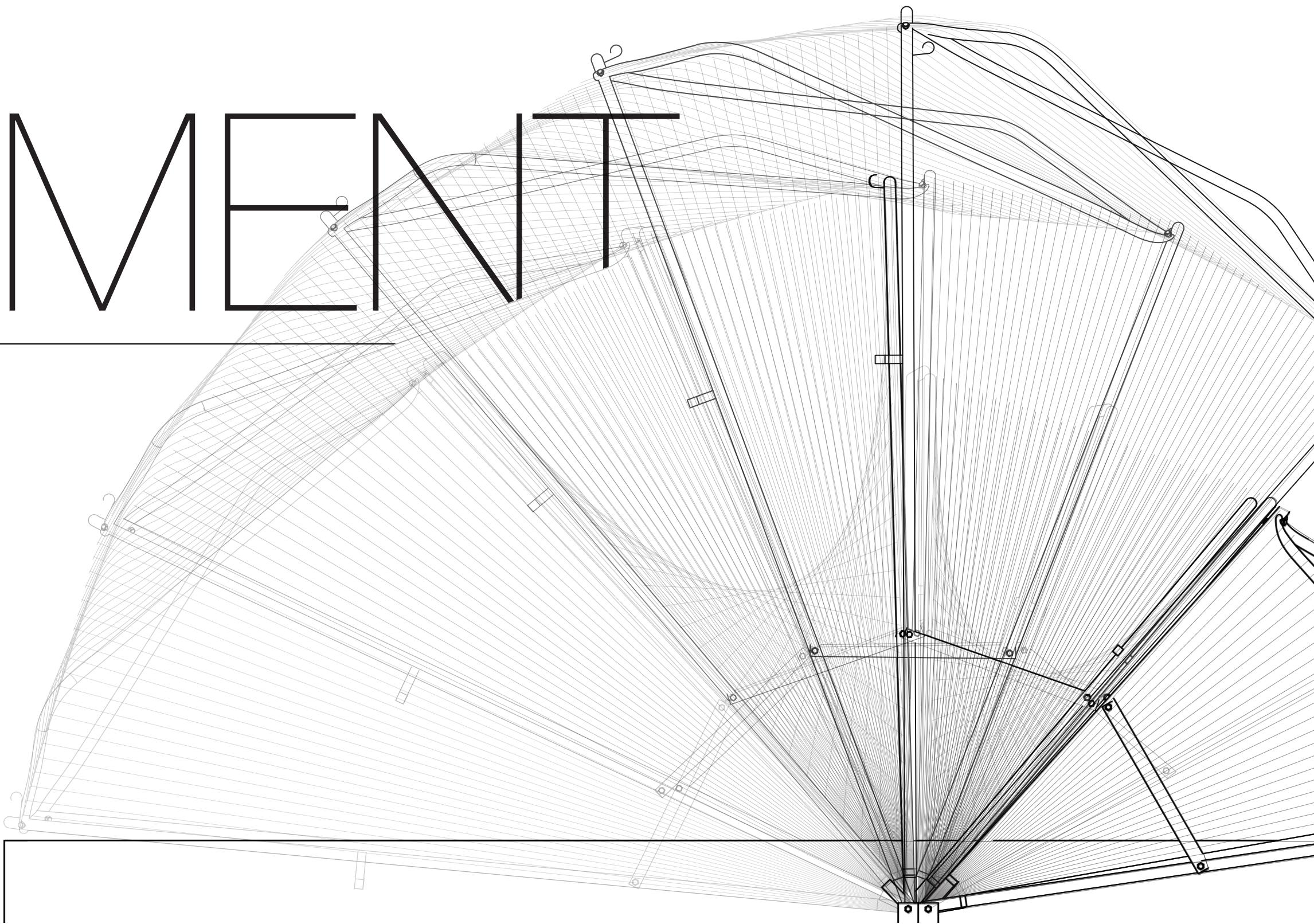


MOMENT



# MOMENT

Our design is driven by the demands of accessibility, with careful consideration of the specific site conditions that influence growth. The primary purpose is to extend the growing season of the plants inside, but how do we best do this? One factor is, of course, the passive regulation of the environment, but perhaps the more pivotal factor in terms of the plant's well-being is its maintenance and care. Having a dedicated caretaker for our plants is invaluable to the plant's growth.

This moment of gardener/hoop-house/plant interaction is the most important for the life of our plants; we find it key to make it the most beautiful aspect of the project. Whether that be through an innovative mechanism, an interesting hinge structure, or a striking opening movement, this moment will be the center of our design.

Of course we also cannot ignore the prevailing environmental factors. We must be cognizant of the path of the sun, creating a design that takes advantage of the already excellent exposure on the site. We must understand the varying climates that our design will be utilized in, creating methods for adaptation to the external temperature and conditions. Our forms will follow the constraints of the steel conduit and the effect of heat shrink plastic.

MOMENT is the expression of an event that takes place between garden and gardener. This juncture acts not only as protection but also as presentation.

Not a tedium, but an occasion.

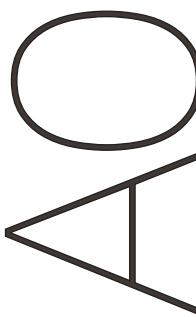
- A1. PROJECT TIMELINE
- A2. SITE PLAN
- B1. OPERATIONAL AXONOMETRICS
- B2. SOUTHEAST ELEVATION
- B3. SOUTHWEST + NORTHEAST ELEVATIONS
- B4. DETAILED PLAN
- B5. EXPLODED AXONOMETRIC
- B6. PROPORTION DIAGRAM
- B7. SUPPORT DETAILS
- C1. CONDUIT CUT SHEET
- C2. CONDUIT DRILL SHEET
- C3. CONDUIT CUT SHEET
- C4. PLASTIC CUT SHEET
- C5. JOINERY DETAILS
- C6. COMPONENT LOCATION
- C7. JOINT TYPOLOGY LAYOUT
- C8. FRAME MODULES
- C9. FRAME MODULES
- C10. HINGE DETAILS
- D1. STUDIO SETUP
- D2. TRANSPORTATION + CLEARANCES
- D3. MATERIALS + COSTS

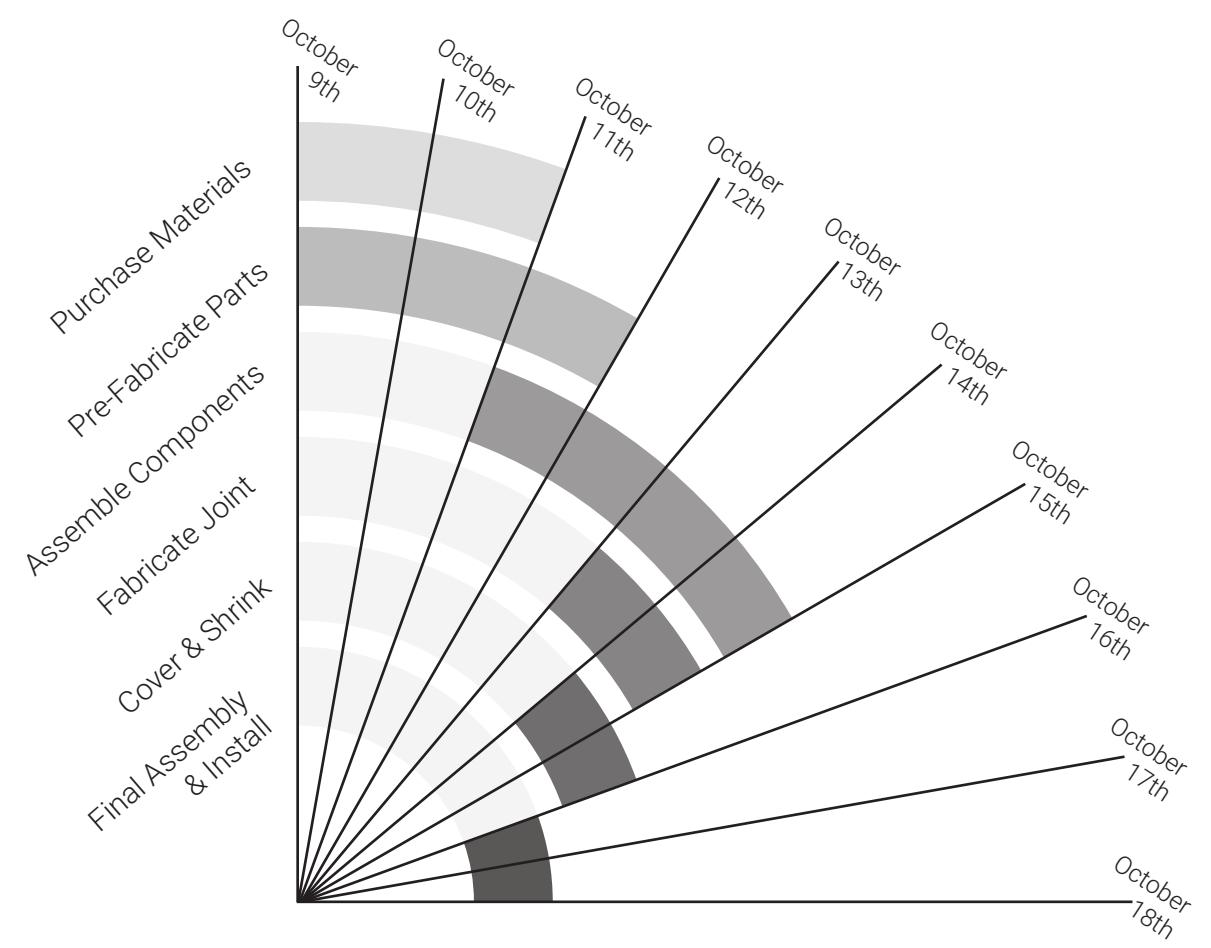
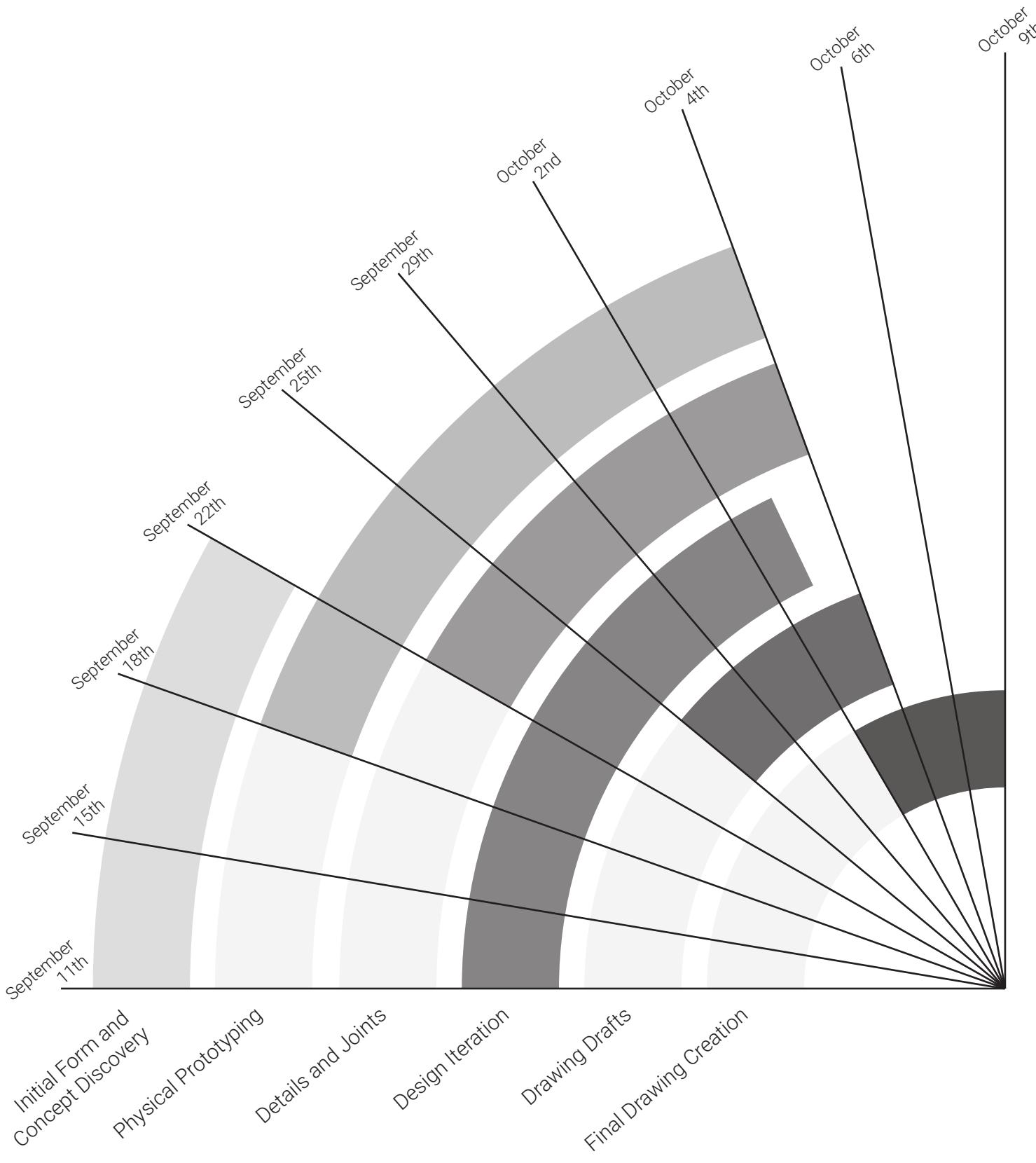
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Angelina Shi  
Daniel Noh  
Owen Haft

10.9.17



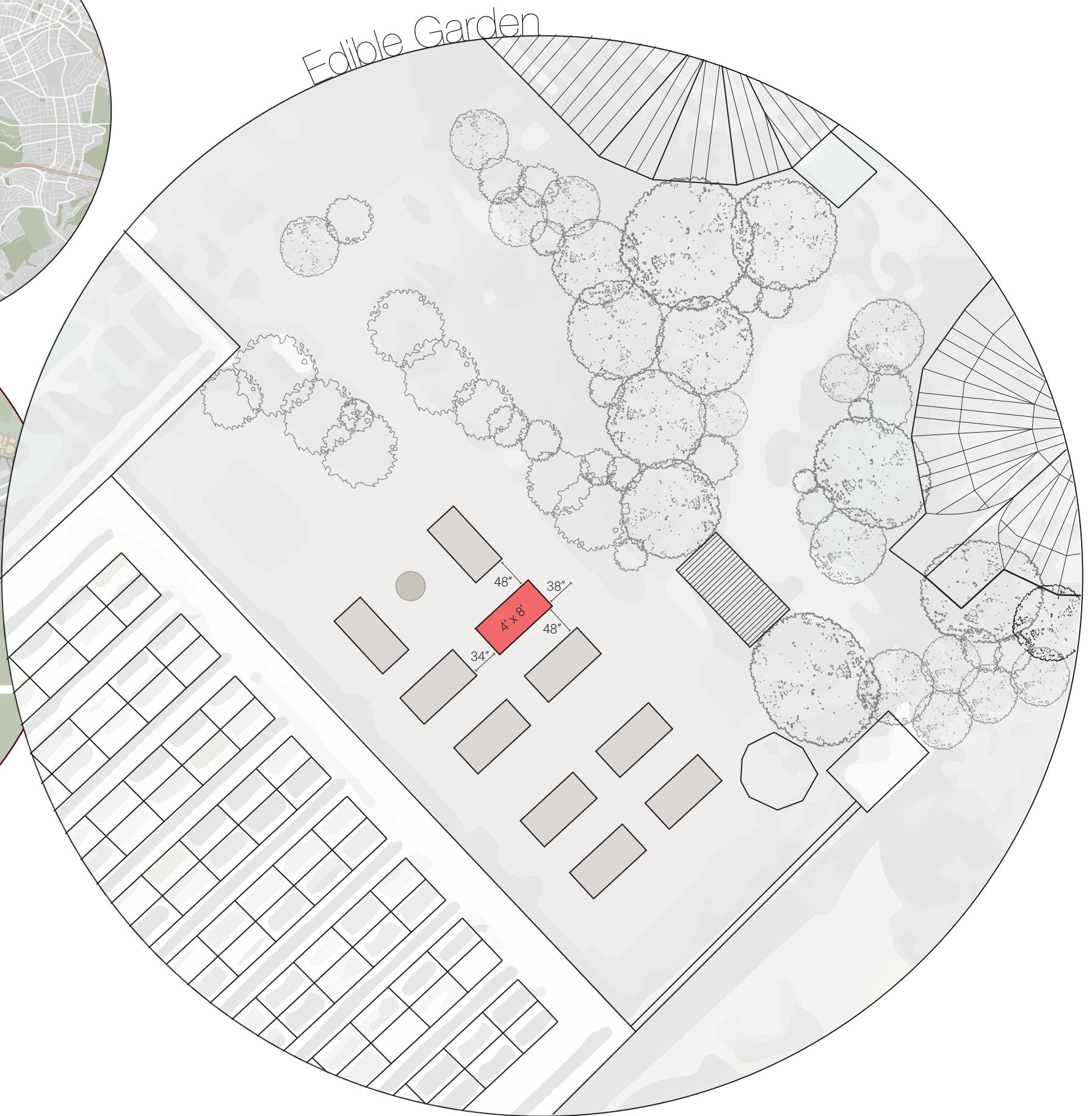


Project Timeline

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Angelina Shi  
Daniel Noh  
Owen Haft

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Grow Collective  
Hoop House Design/Build  
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Edible Garden

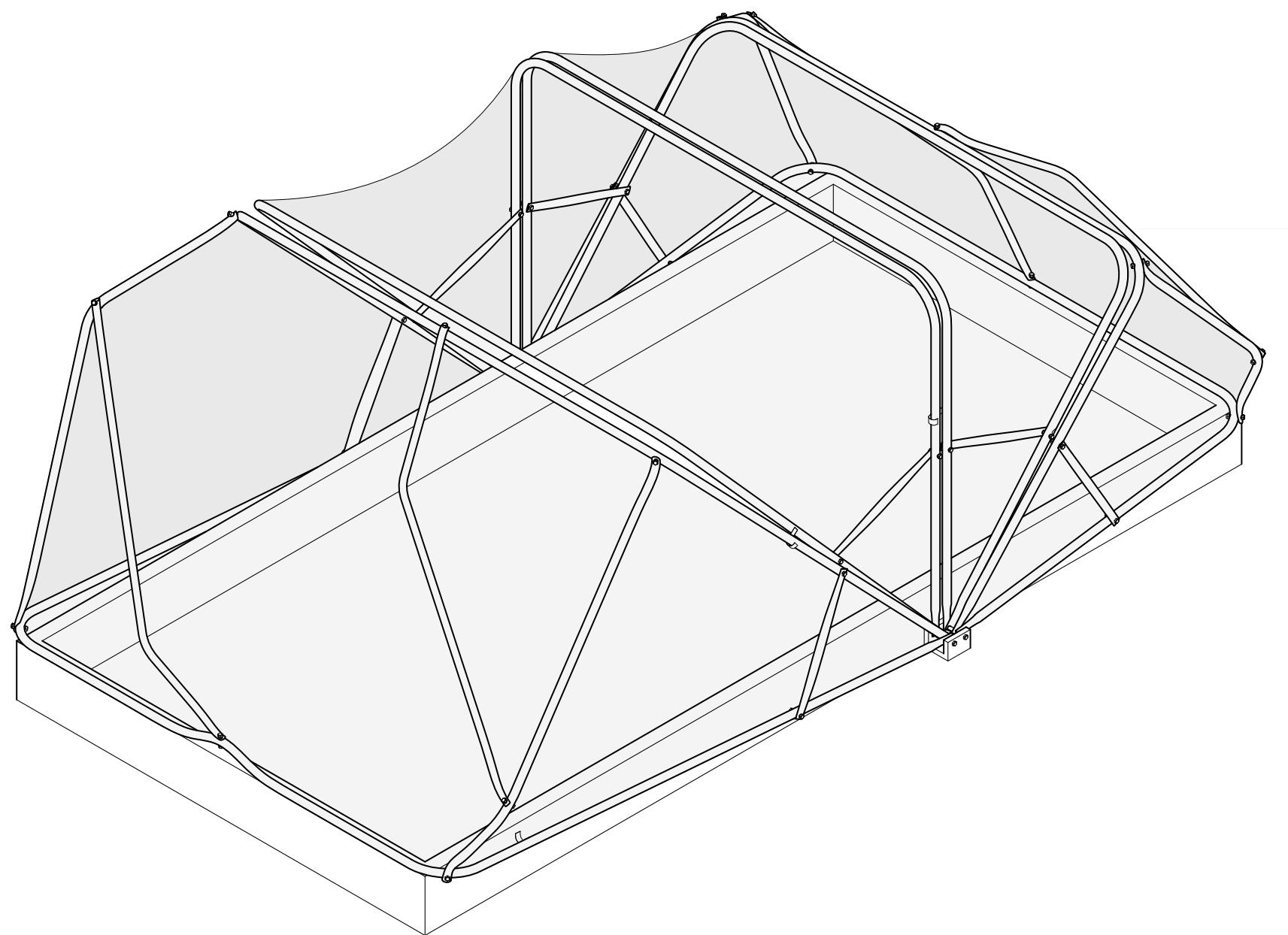


Grow Collective  
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Edible Garden

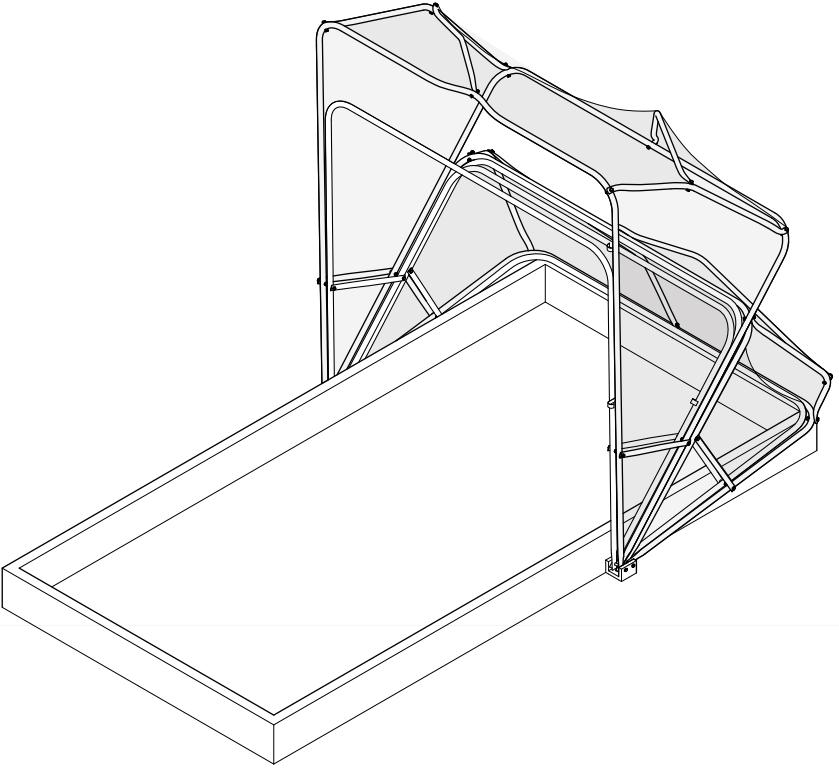
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Owen Haft

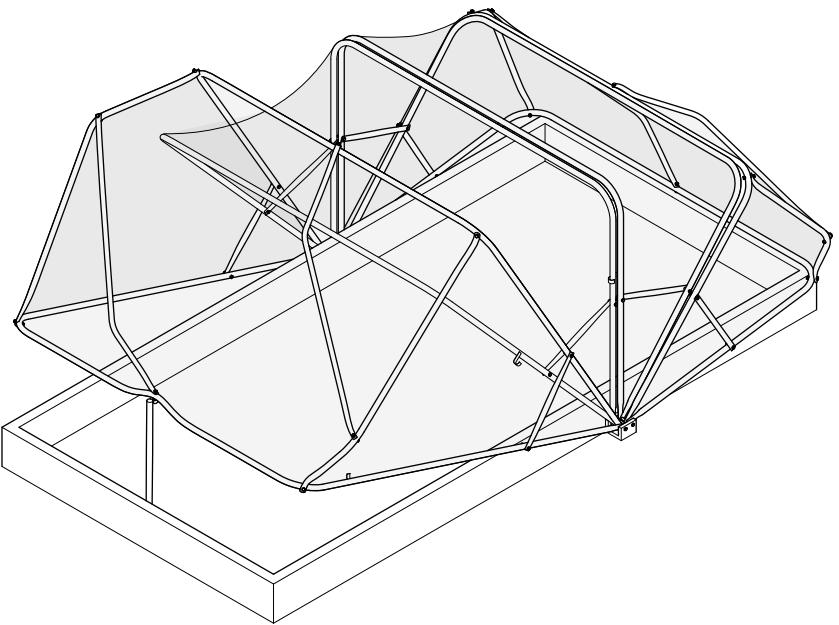
A2



Closed  
Scale: 1' = 1"



Primary Opening  
Scale: 1' = 1/2"



Secondary Opening  
Scale: 1' = 1/2"

Grow Collective  
Hoop House Design/Build  
Phipps Conservatory  
Edible Garden

1' = 1"  
1' = 1/2"

Axon, Drawings & Operation

Moment  
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Gil Jang  
Angelina Shi  
Daniel Noh  
Owen Haft

B1

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Moment  
Christoph Eckrich  
Cathy Dong  
Gil Jang  
Angelina Shi  
Daniel Noh  
Owen Haft

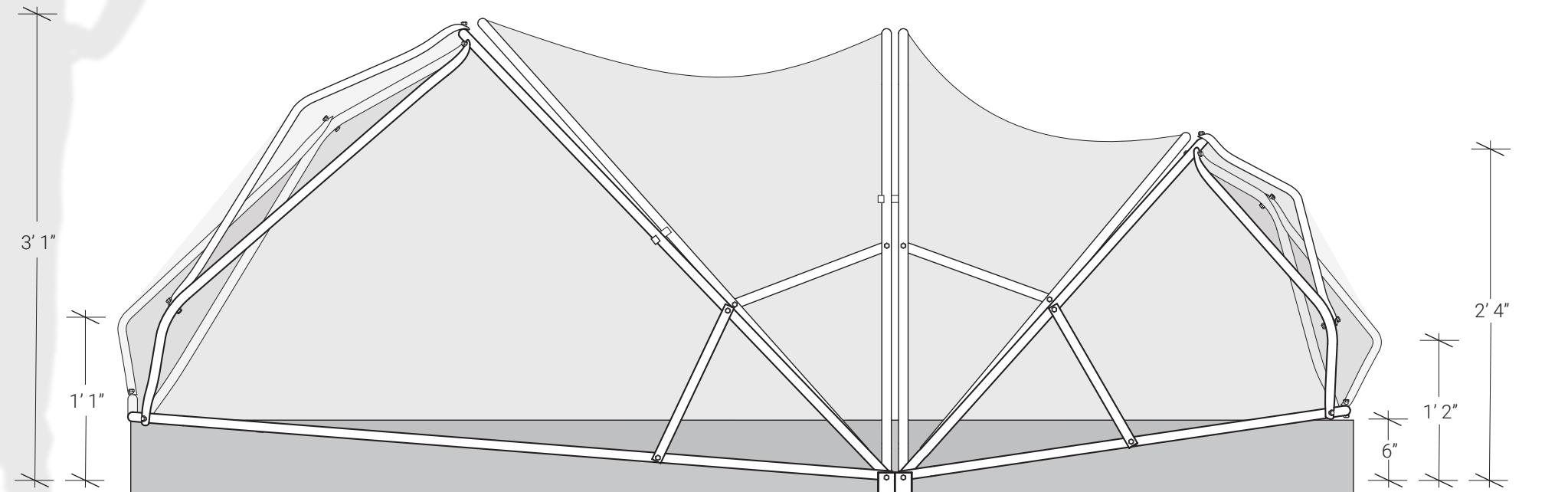
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Hoop House Design/Build  
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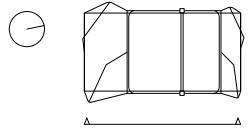
Southeast Elevation

B2

1' = 1"



Southeast



Moment  
Christoph Eckrich  
Cathy Dong  
Gil Jiang  
Angelina Shi  
Daniel Noh  
Owen Haft

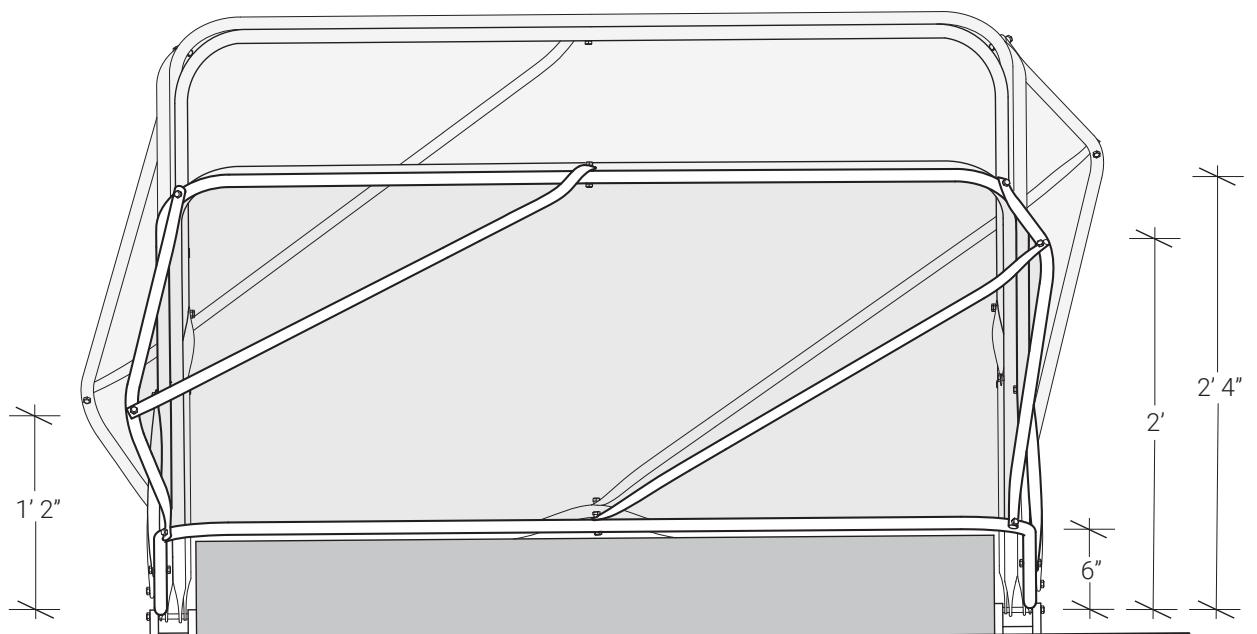
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SW and NE Elevations

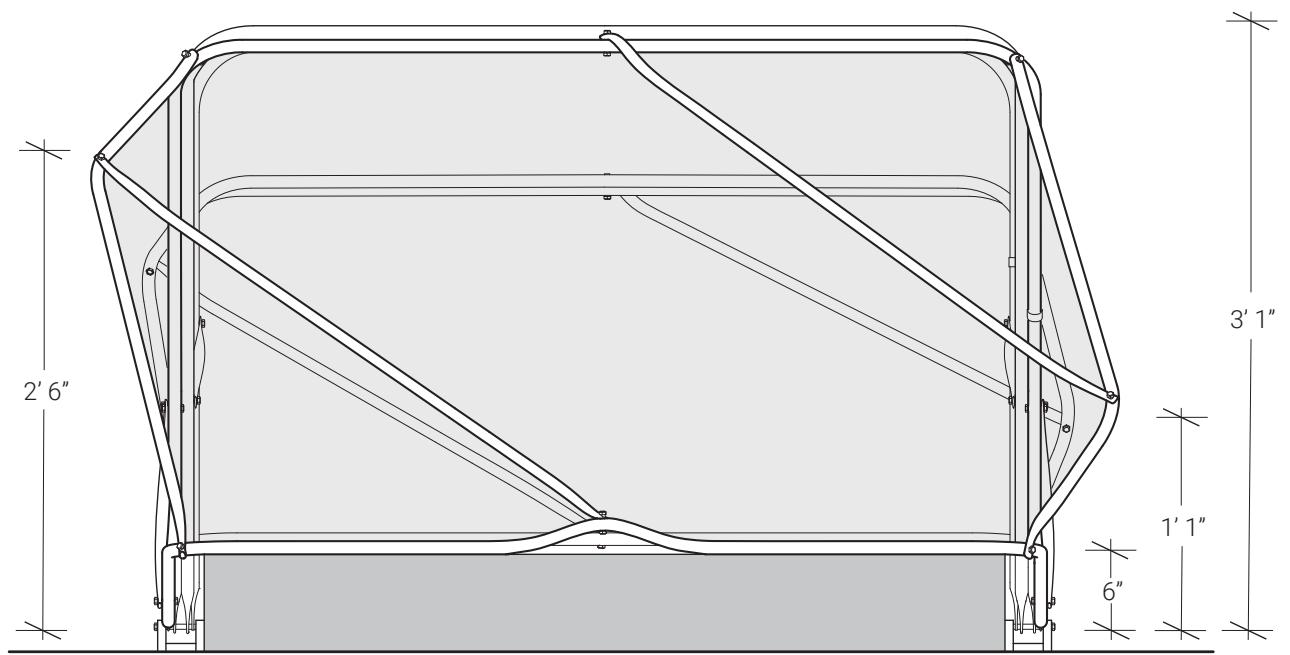
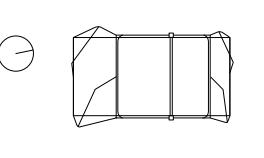
B3

1' = 1"

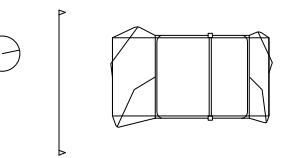
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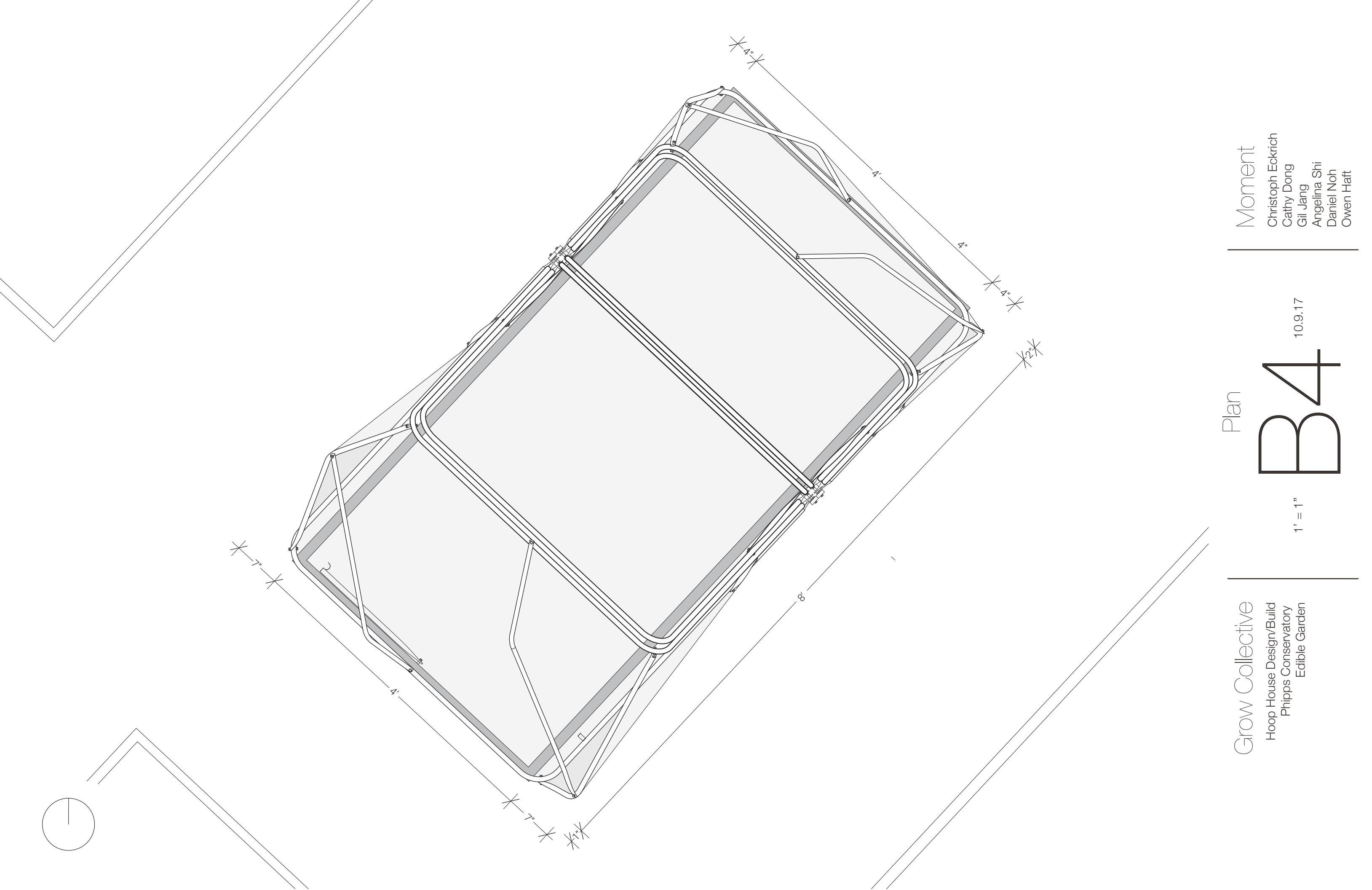


Northeast



Southwest





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Edible Garden

1' = 1"

Plan

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Moment

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Cathy Dong  
Gil Jang  
Angelina Shi  
Daniel Noh  
Owen Haft

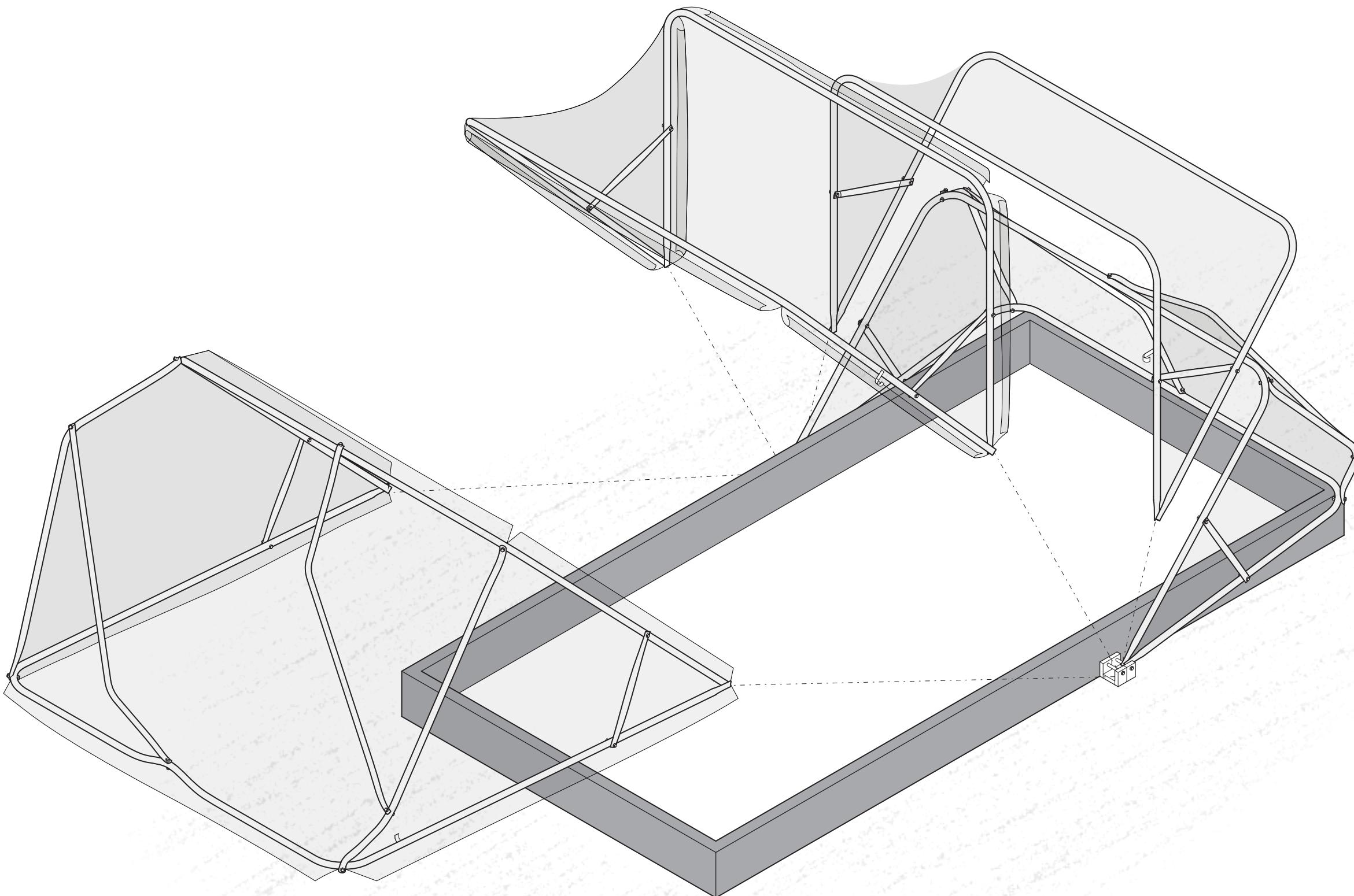
B4

Moment  
Christoph Eckrich  
Cathy Dong  
Gil Jang  
Angelina Shi  
Daniel Noh  
Owen Haft

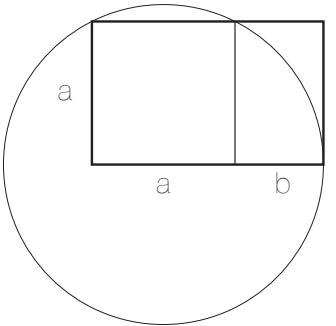
Exploded Axonometric  
B5  
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Grow Collective  
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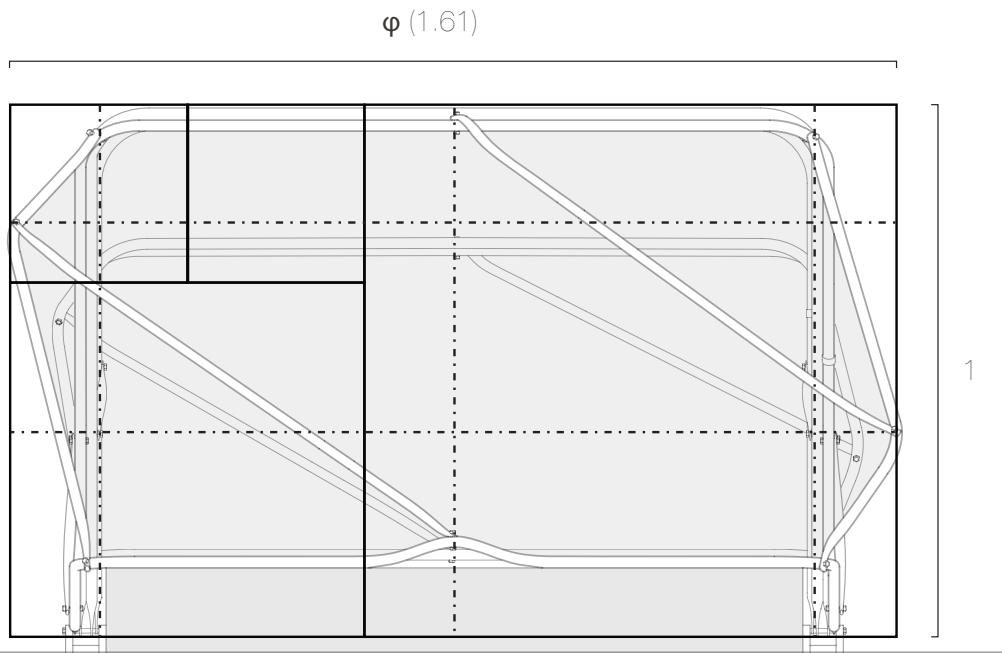
1' = 1"



1:1.61 is the golden ratio ( $\varphi$ )



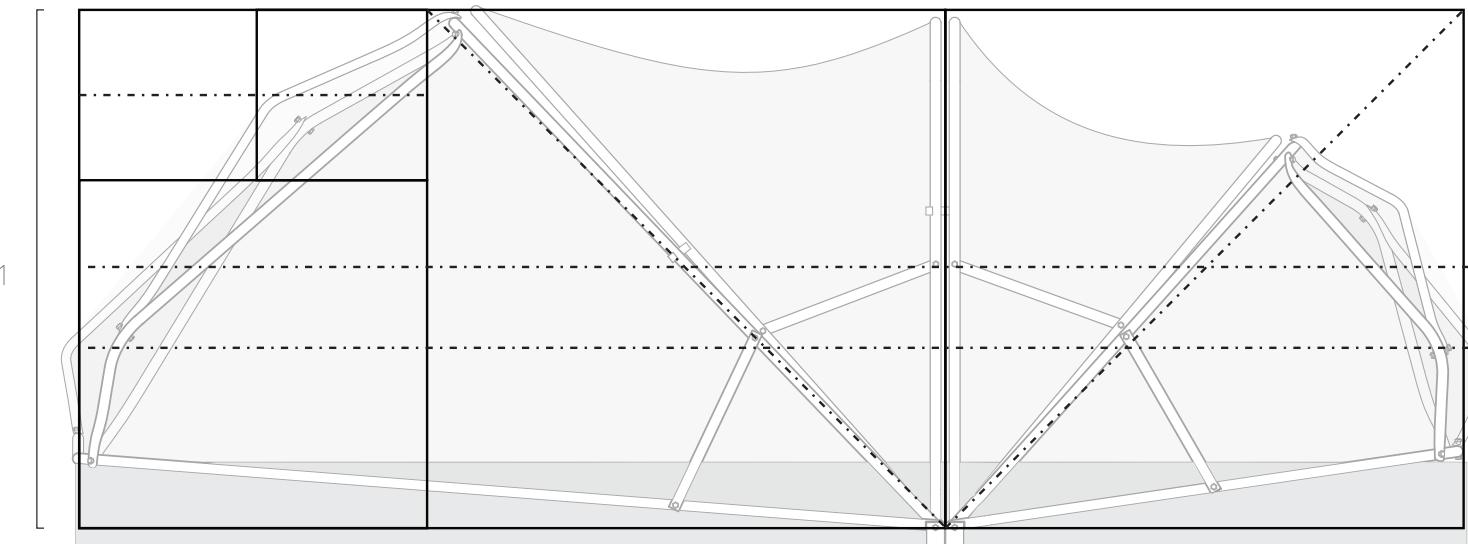
$$\frac{a+b}{b} = \varphi$$



Southwest Elevation

$$\varphi (1.61)$$

1



Southeast Elevation

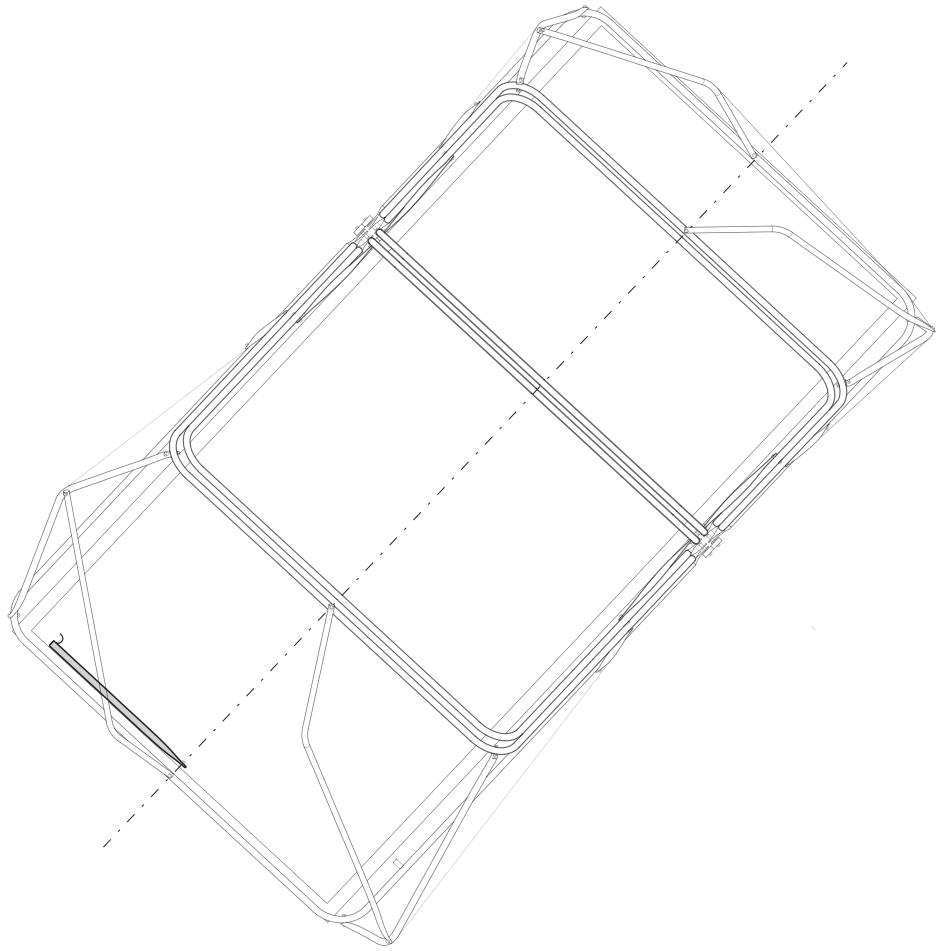
Grow Collective  
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B6

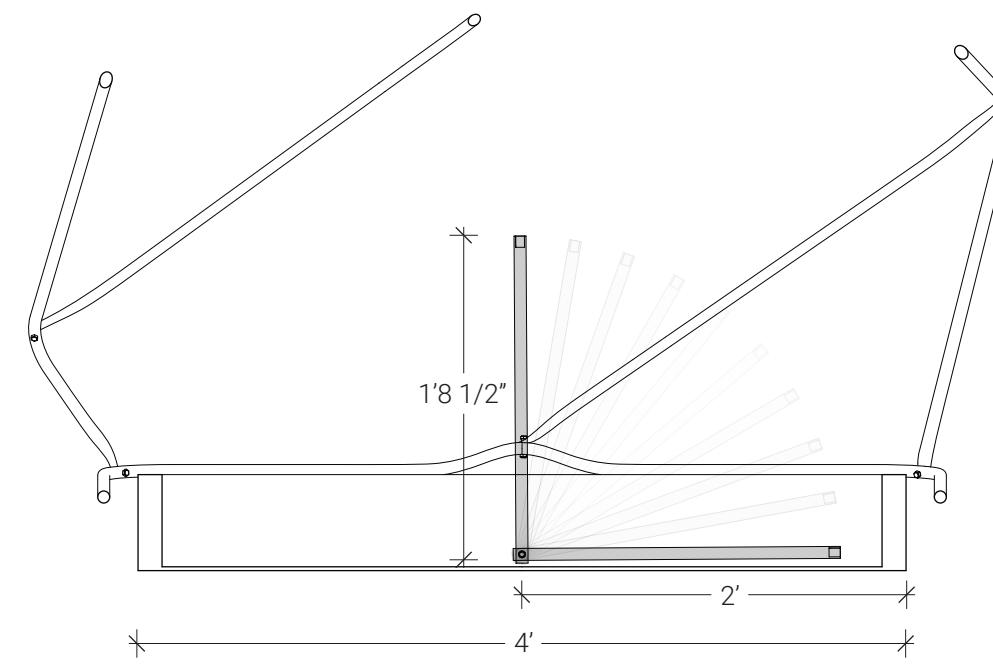
1' = 1"

Moment  
Christoph Eckrich  
Cathy Dong  
Gil Jang  
Angelina Shi  
Daniel Noh  
Owen Haft

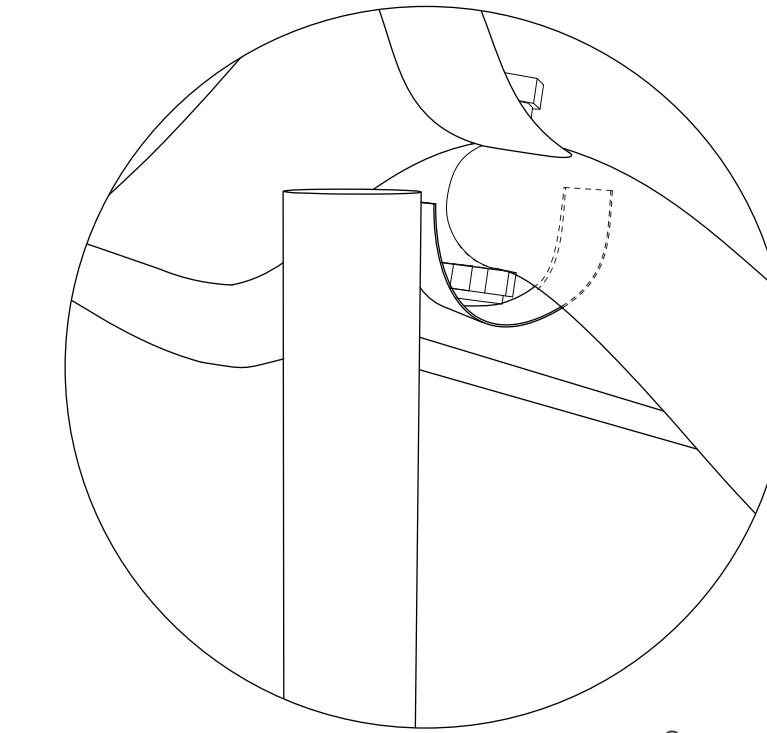
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Placement



Dimensions  
 $1' = 1''$



Support Interaction  
 $2' = 1''$

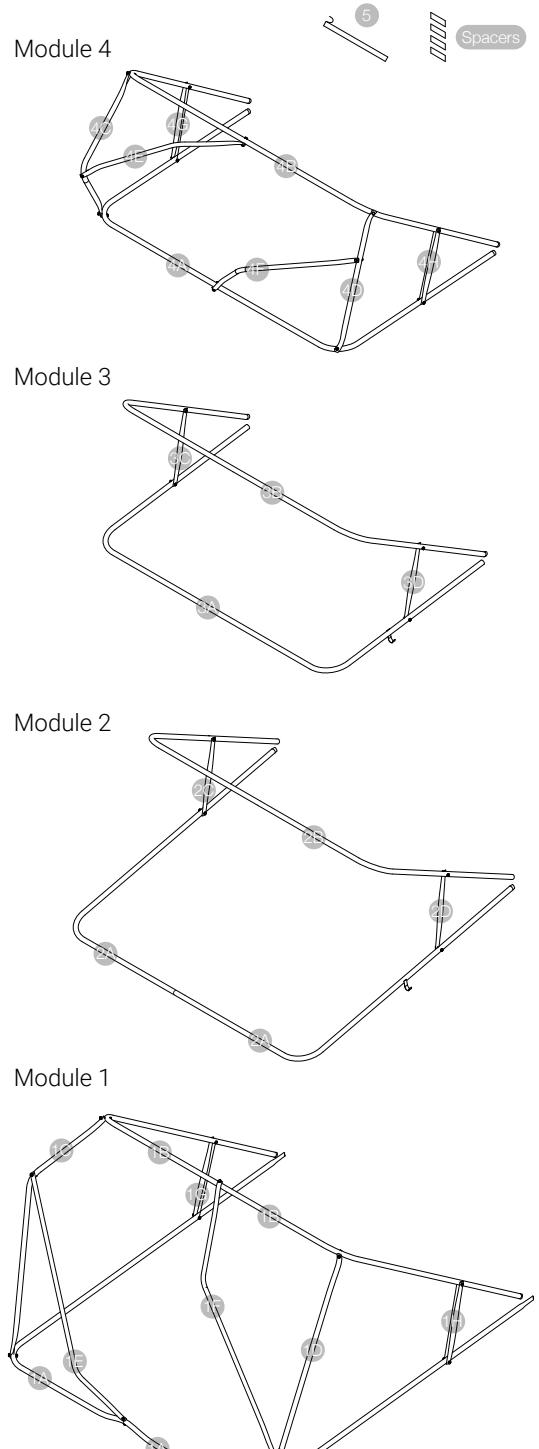
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Support Details  
B7  
 $1' = 1''$   
 $2' = 1''$

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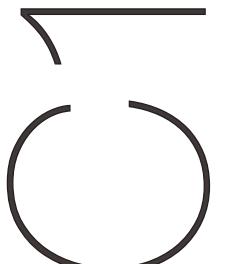
## Conduit Cut Sheet

1' = 1"

## Moment

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Owen Haft

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Moment  
Christoph Eckrich  
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Angelina Shi  
Daniel Noh  
Owen Haft

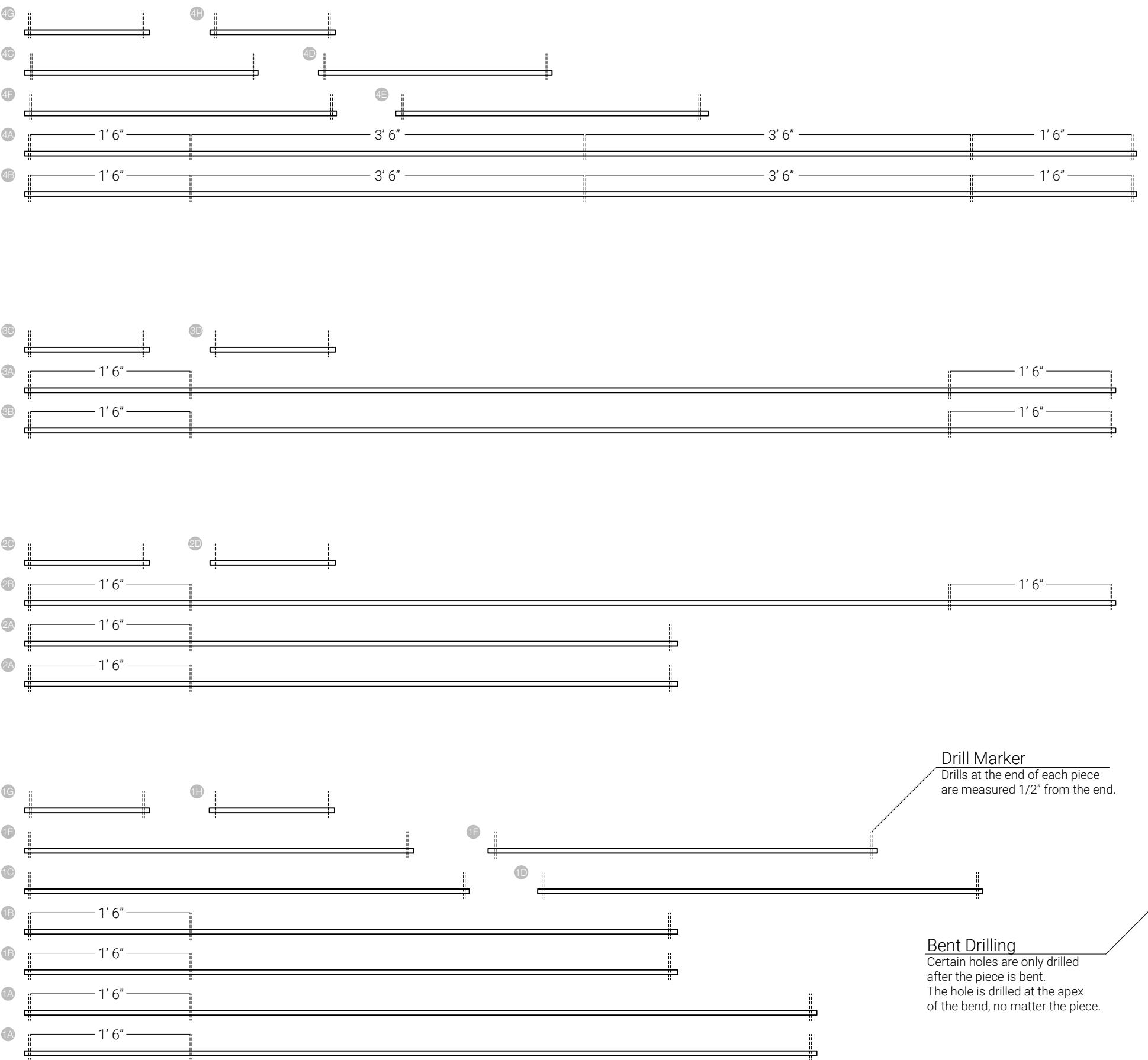
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C2

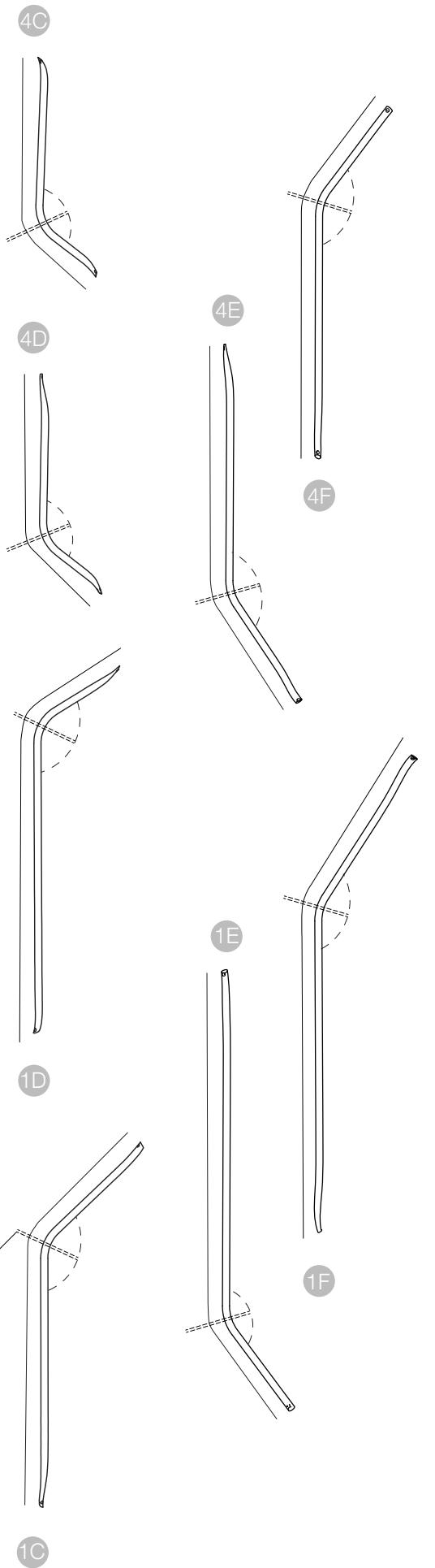
1' = 1"

## Conduit Drill Sheet



**Drill Marker**  
Drills at the end of each piece  
are measured 1/2" from the end.

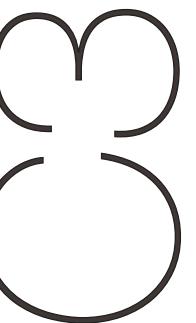
**Bent Drilling**  
Certain holes are only drilled  
after the piece is bent.  
The hole is drilled at the apex  
of the bend, no matter the piece.



Moment  
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Cathy Dong  
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Angelina Shi  
Daniel Noh  
Owen Haft

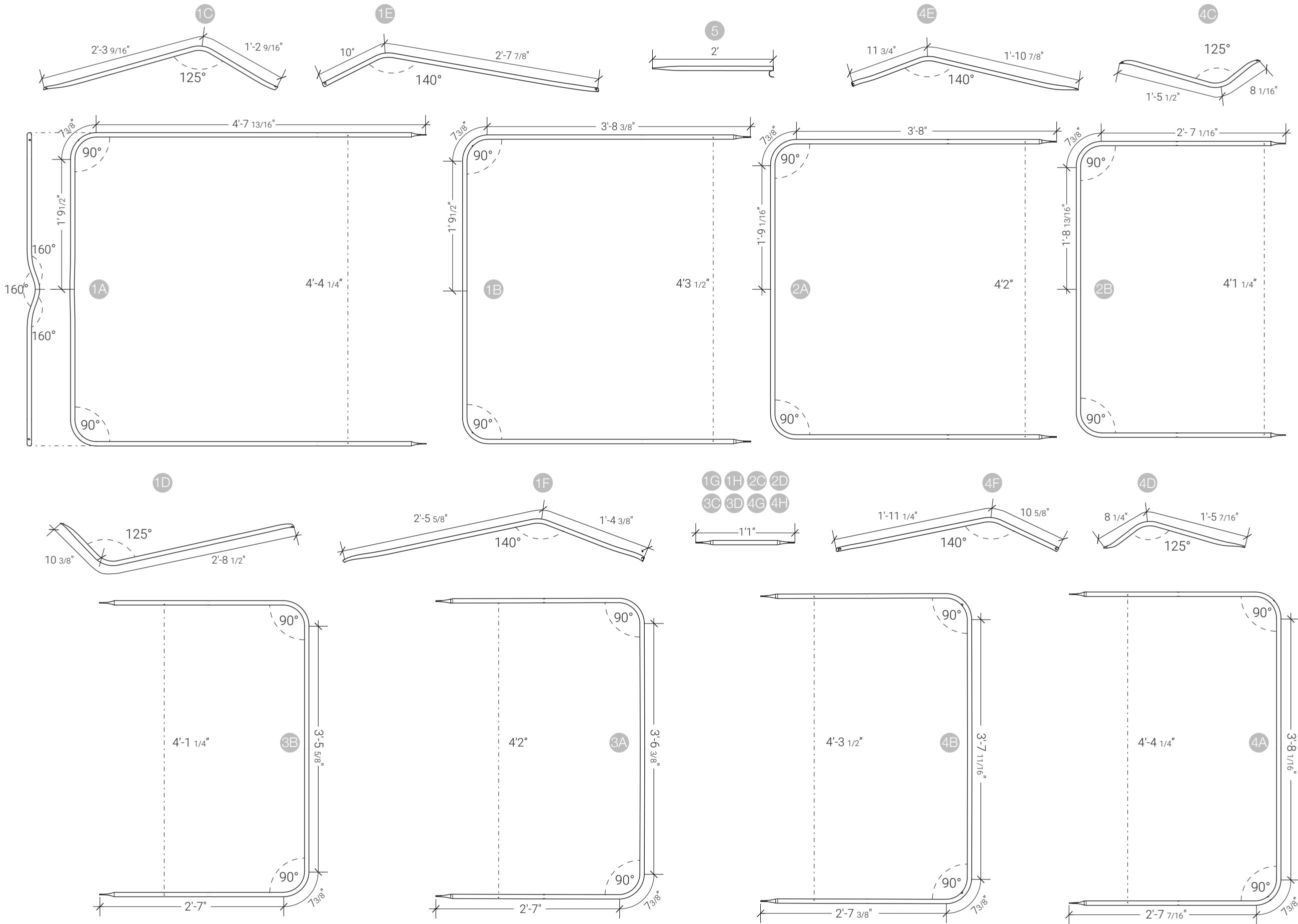
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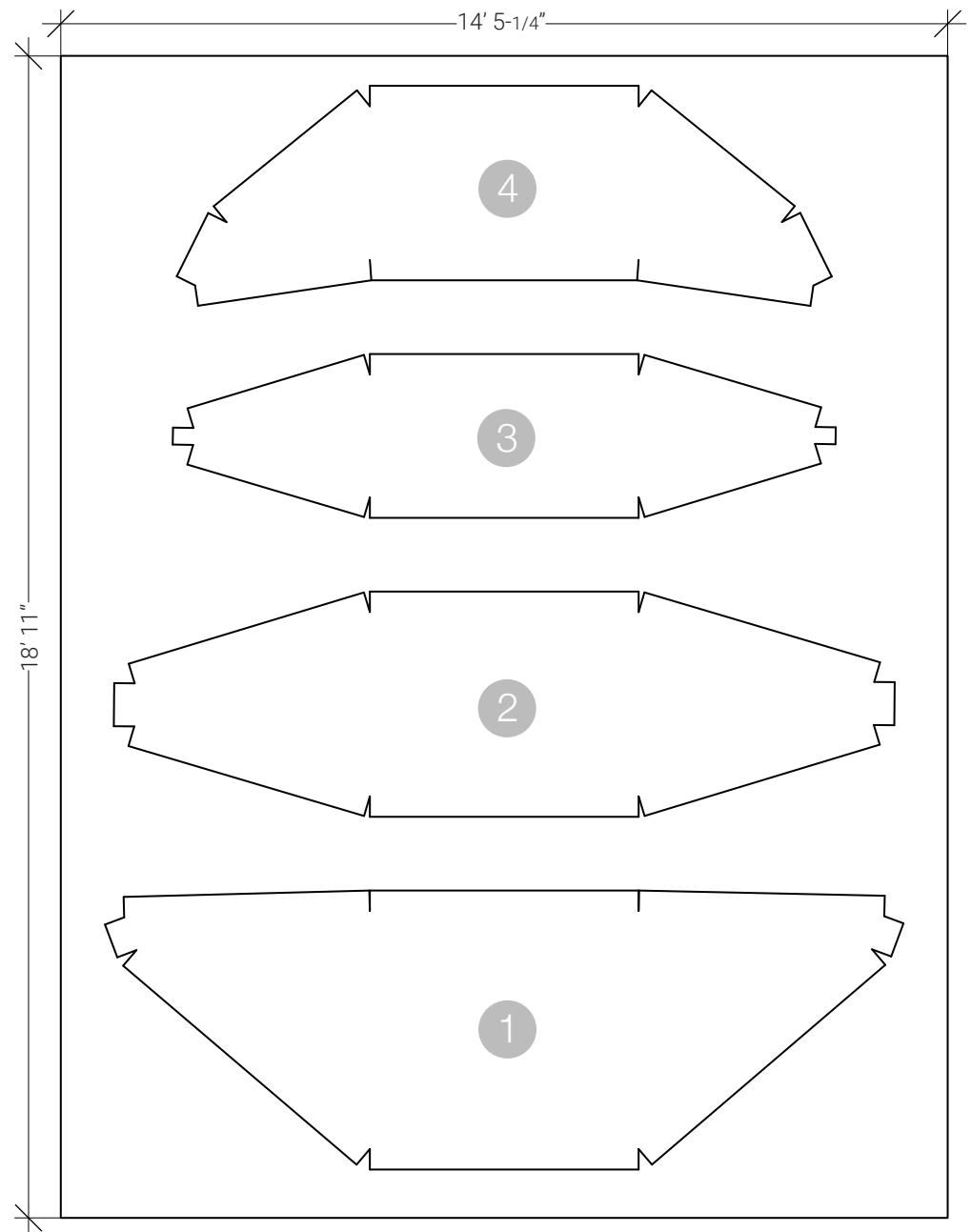
Bend Sheet



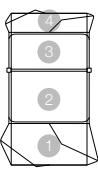
1' = 3/4"

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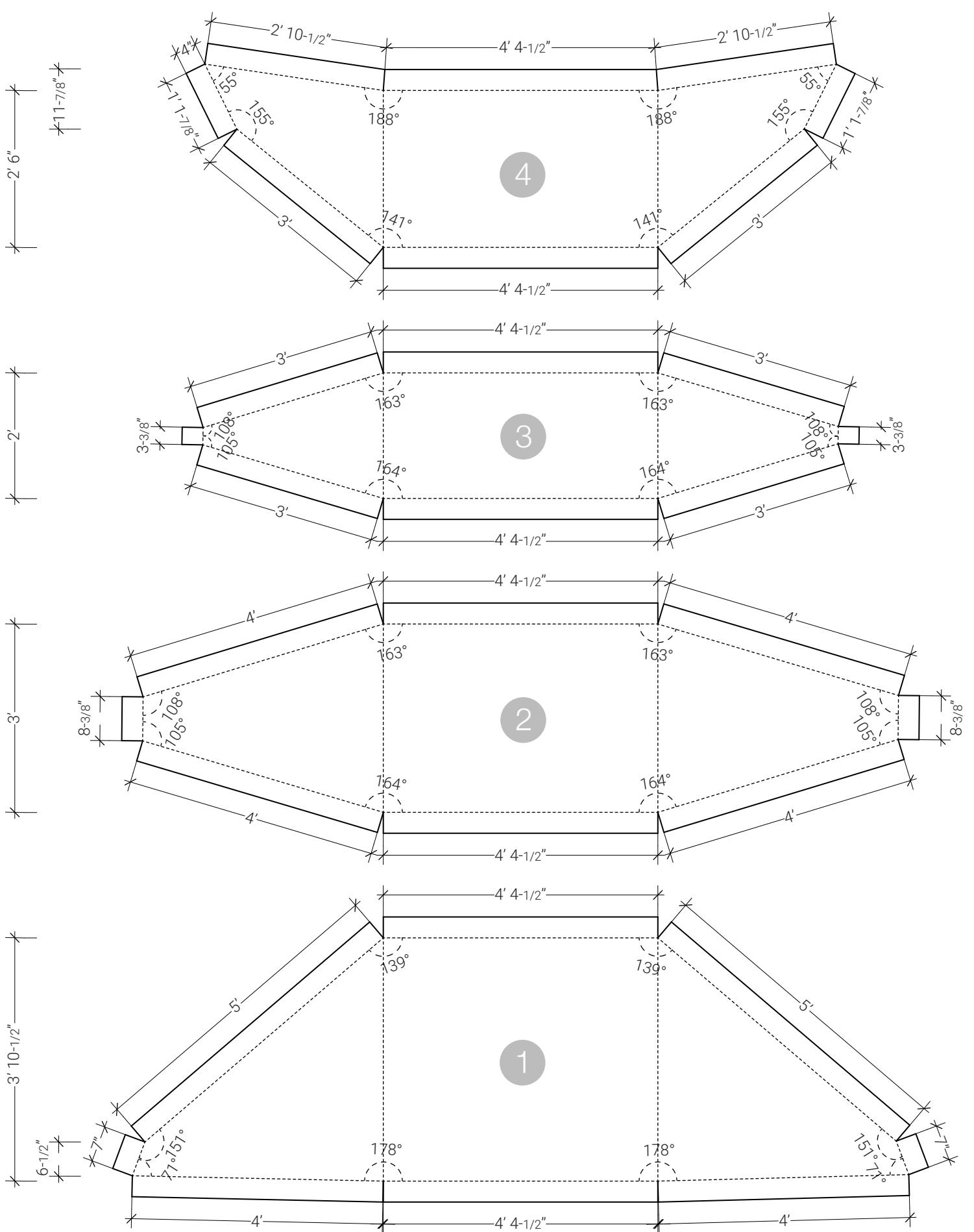


Plastic Cut  
Scale: 1' = 1/3"



Cut  
Fold

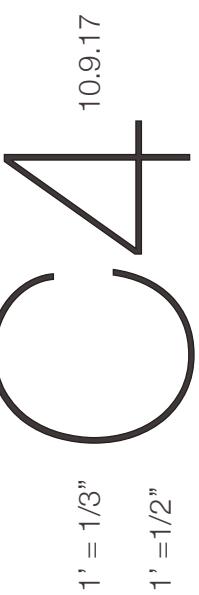
Plastic Cut Labeled Modules



Cut & Fold  
Scale: 1' = 1/2"

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### Plastic Out Sheet



1' = 1/3"  
1' = 1/2"

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Owen Haft

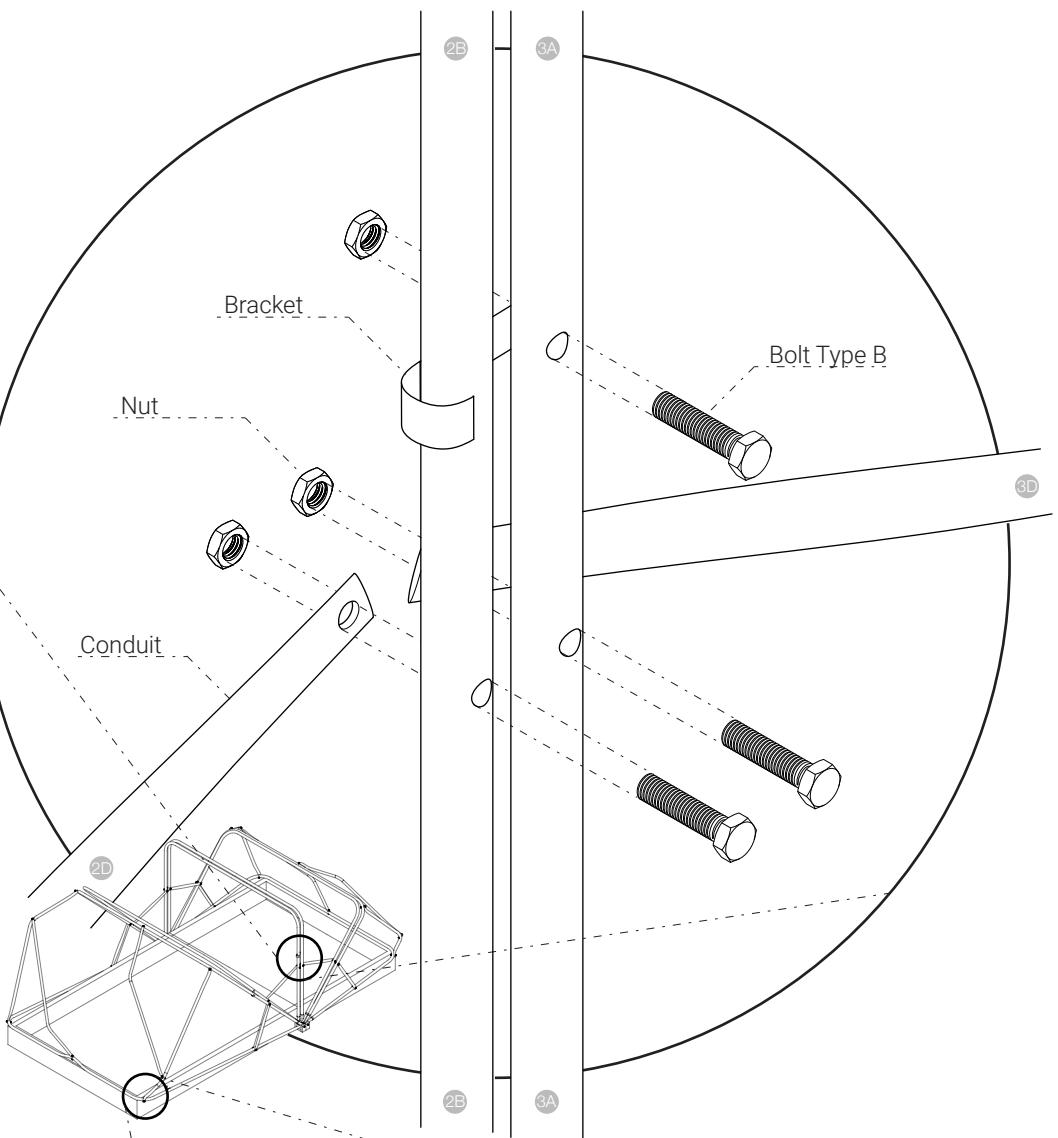
Moment  
Christoph Eckrich  
Cathy Dong  
Gil Jang  
Angelina Shi  
Daniel Noh  
Owen Haft

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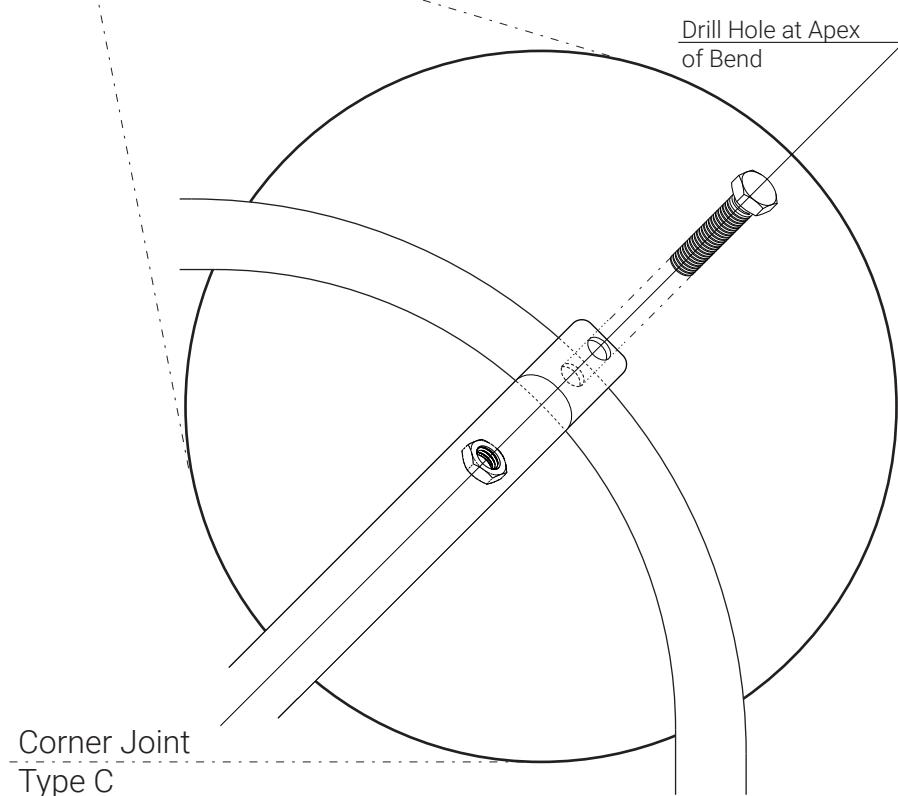
Joinery  
G5

1' = 1"

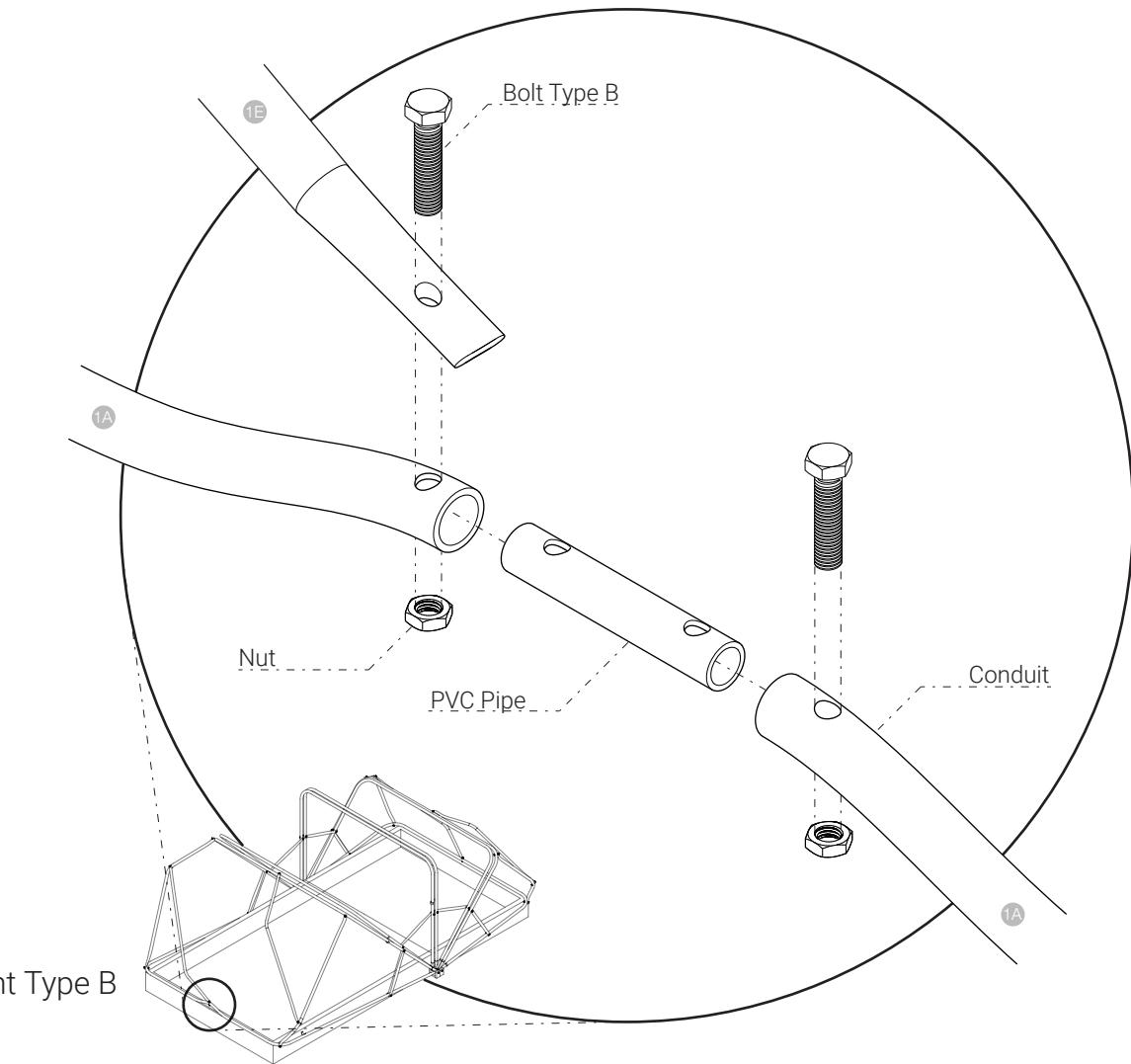
Grow Collective  
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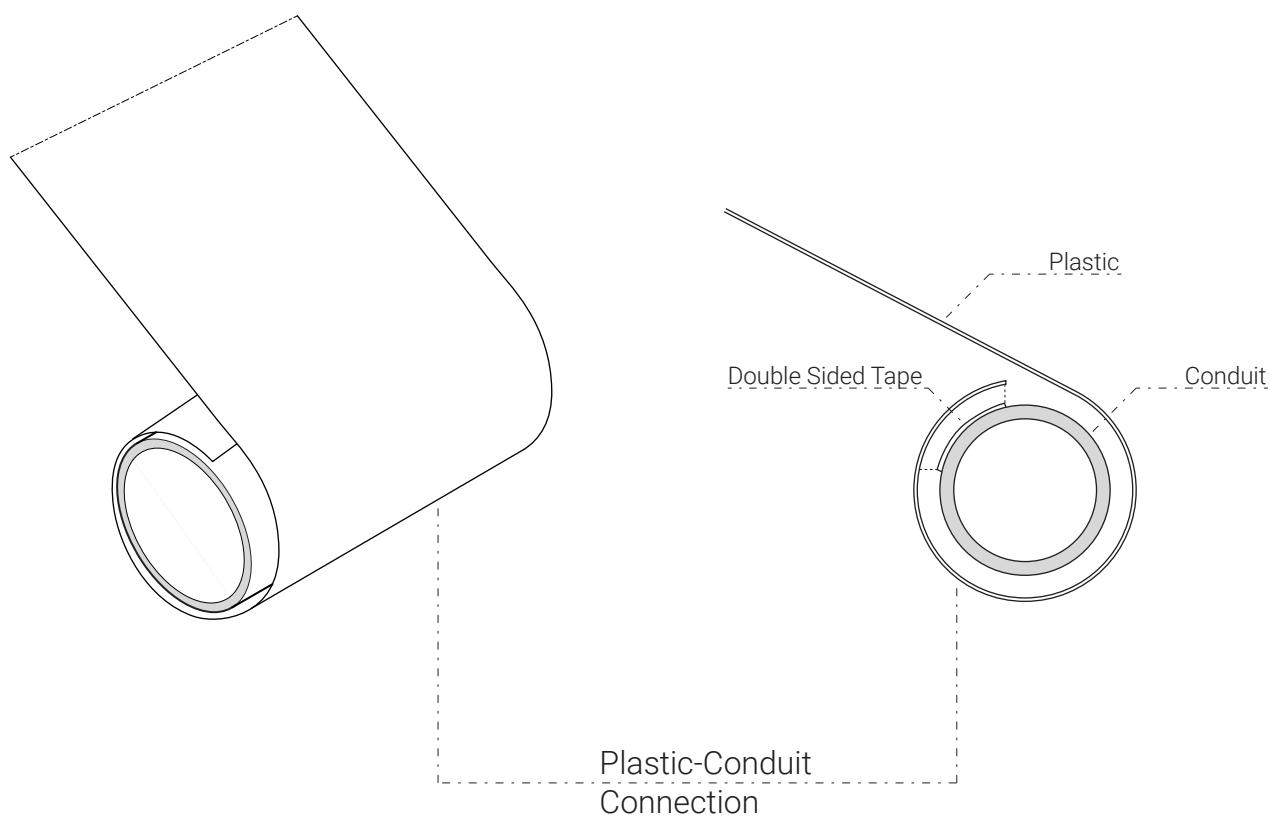
Joint Type A



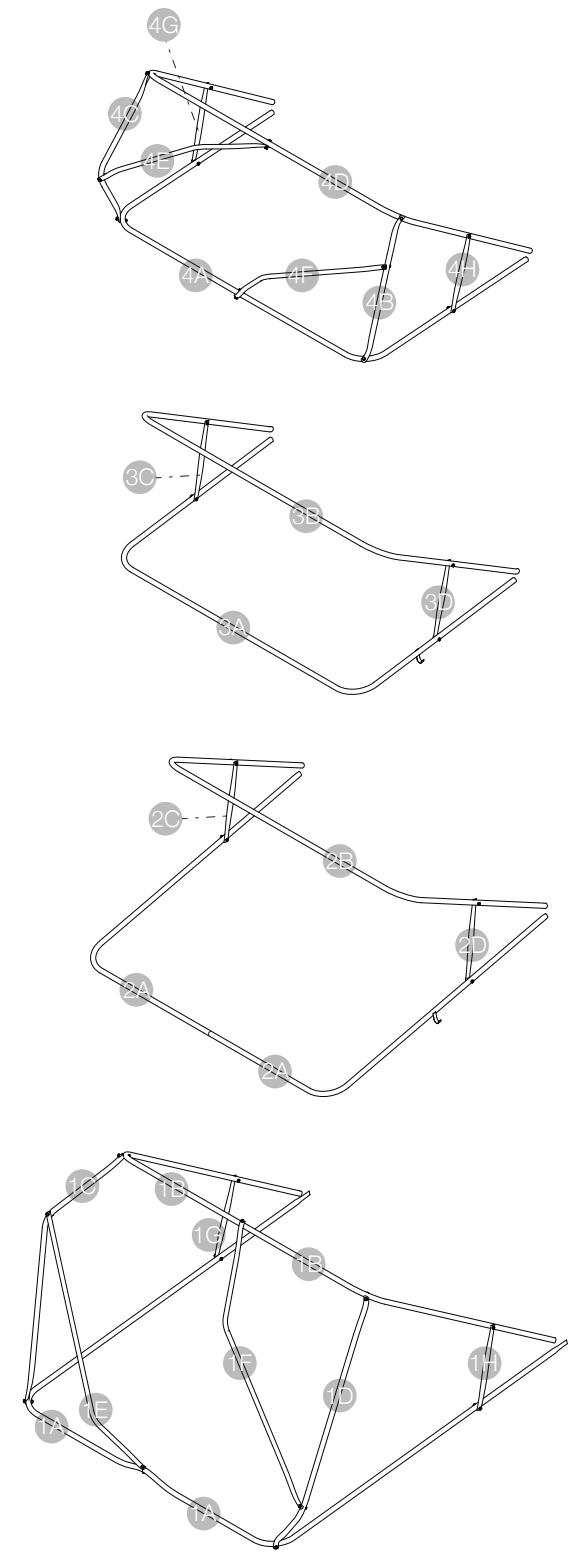
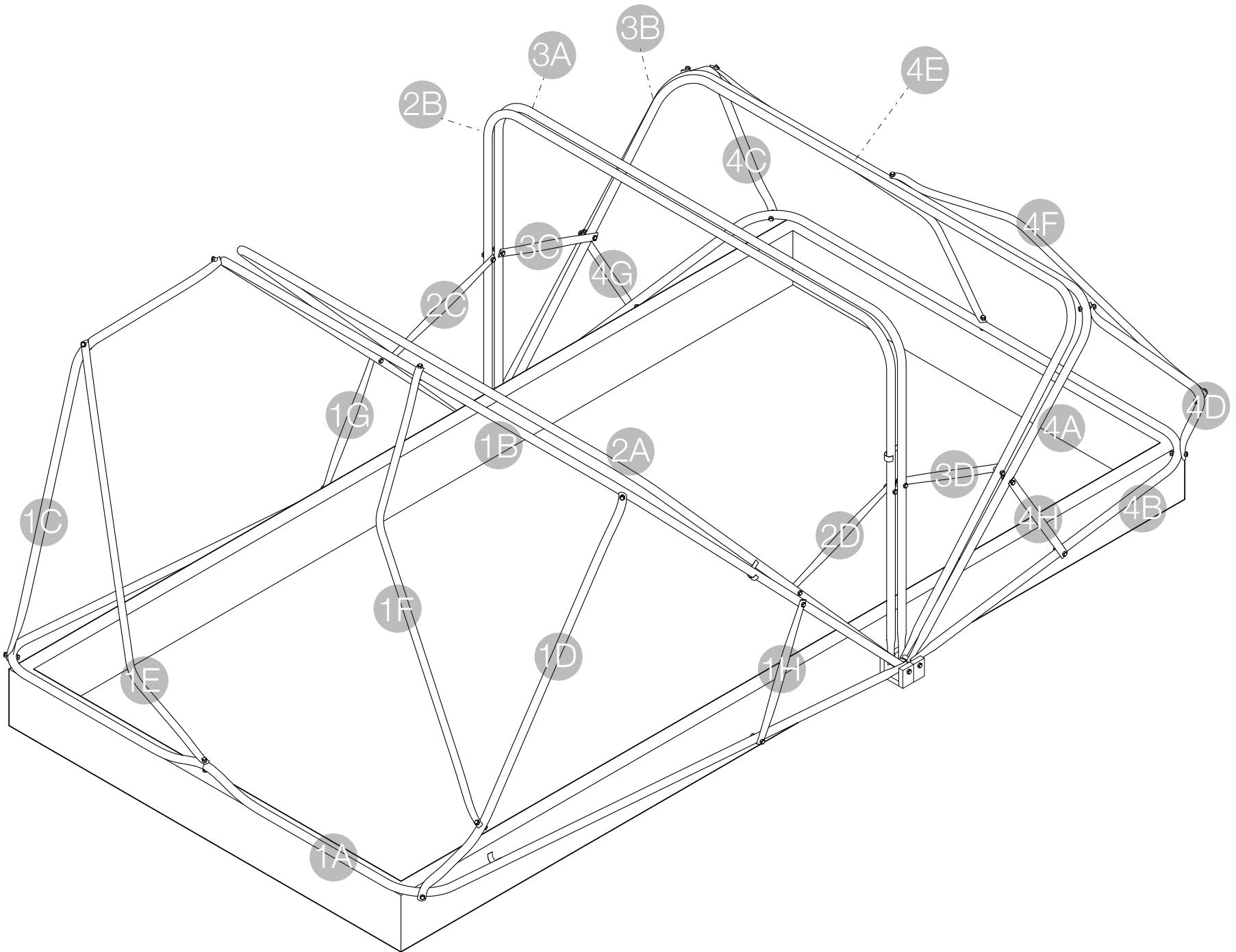
Corner Joint  
Type C



Joint Type B



Plastic-Conduit  
Connection



Component Location

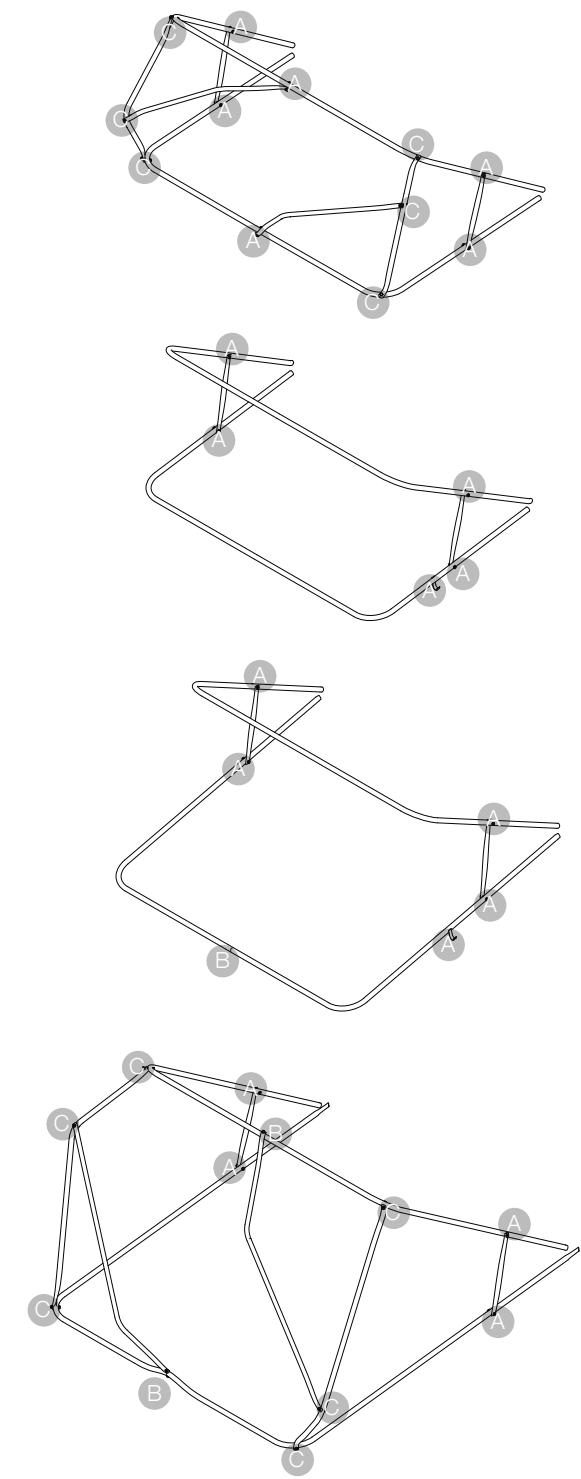
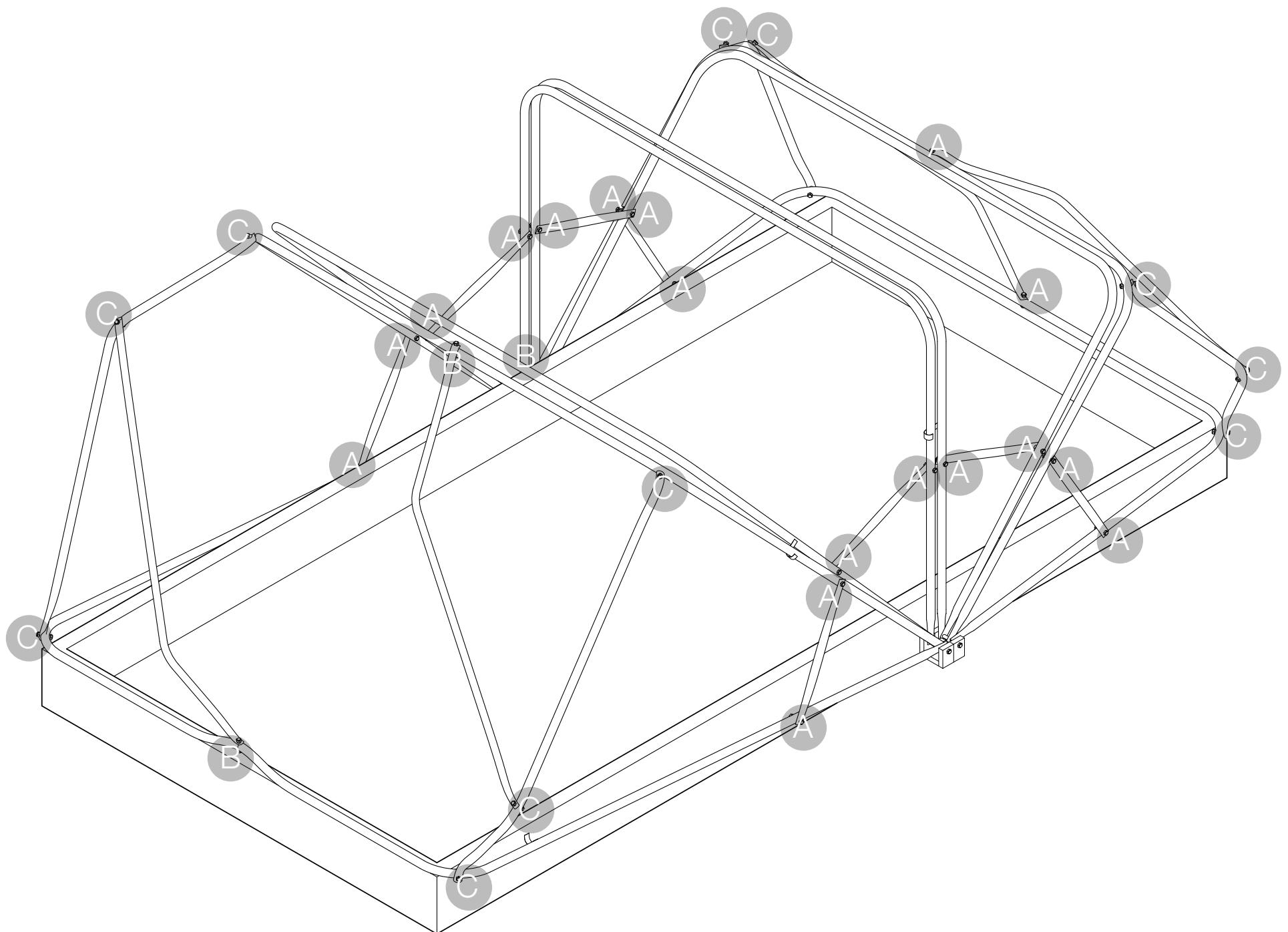
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1' = 1"

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Moment

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Daniel Noh  
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## Joint Typologies

1' = 1"

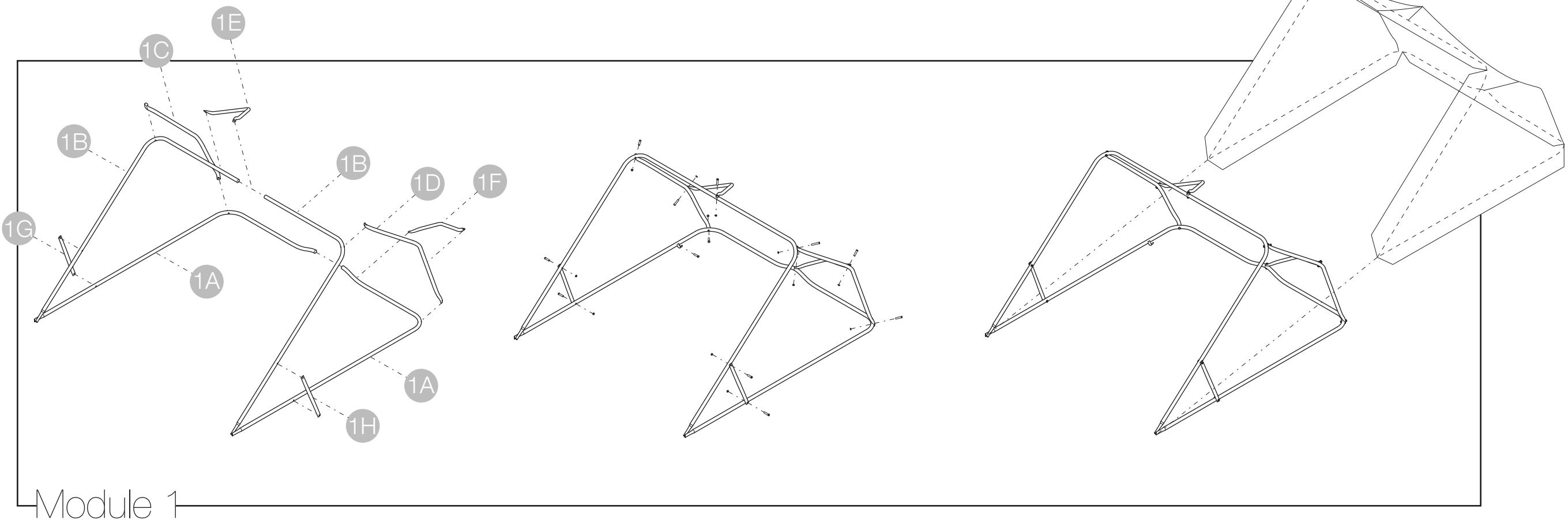
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## Moment

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Angelina Shi  
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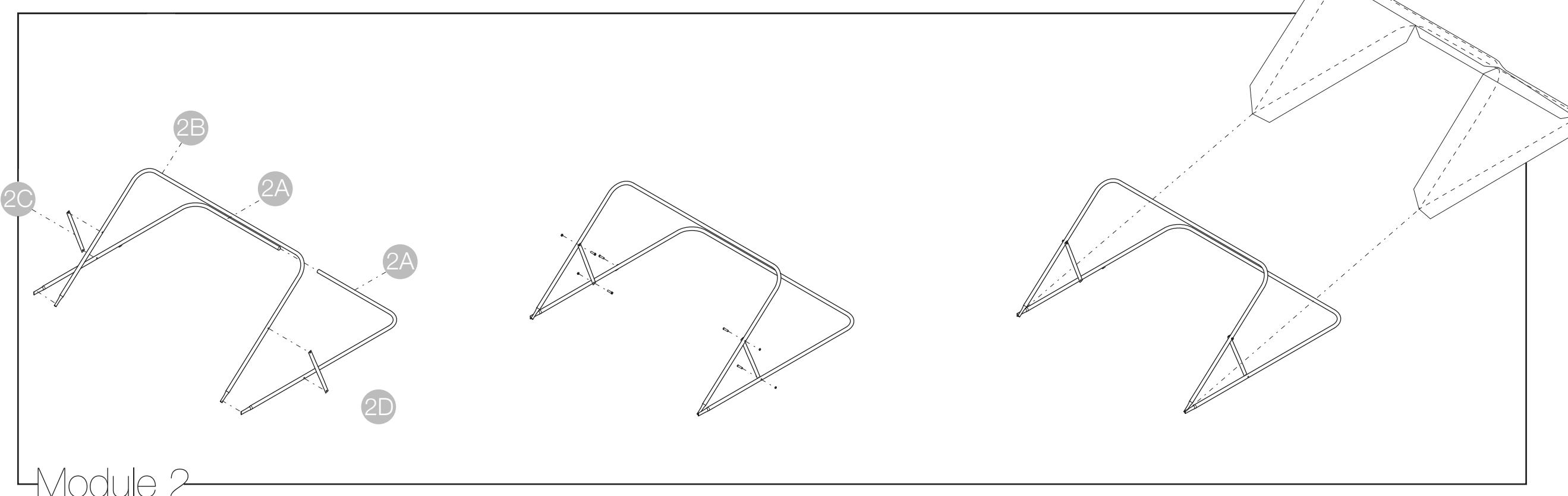
Moment

Christoph Eckrich  
Cathy Dong  
Gil Jang  
Angelina Shi  
Daniel Noh  
Owen Haft

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CC

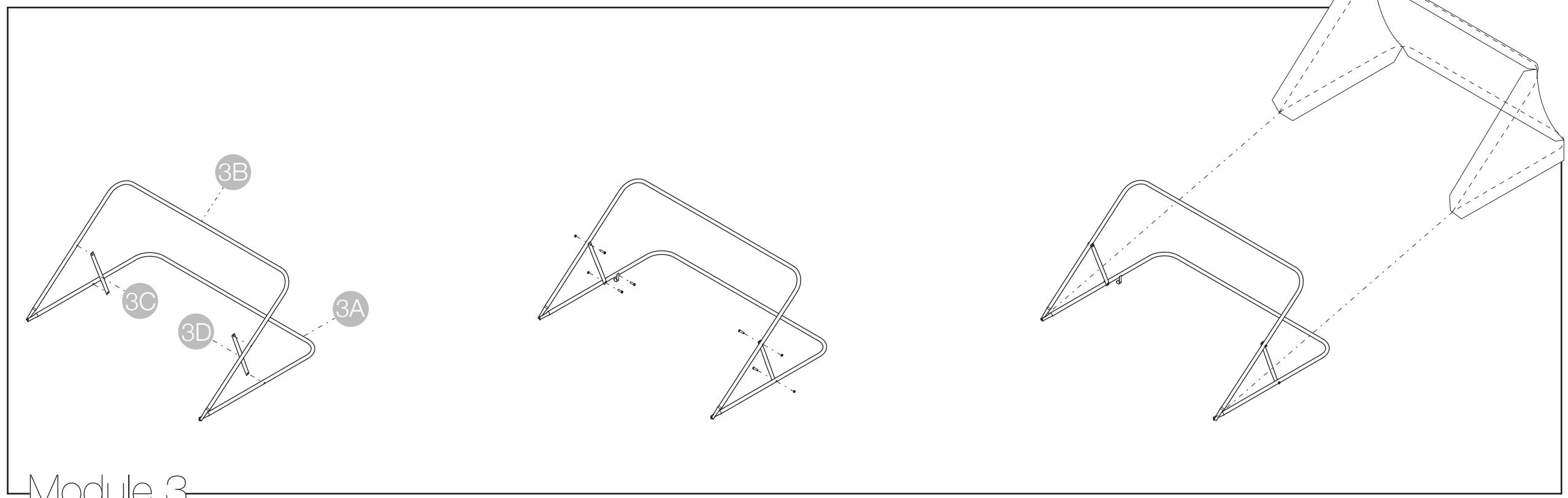
Frame Modules



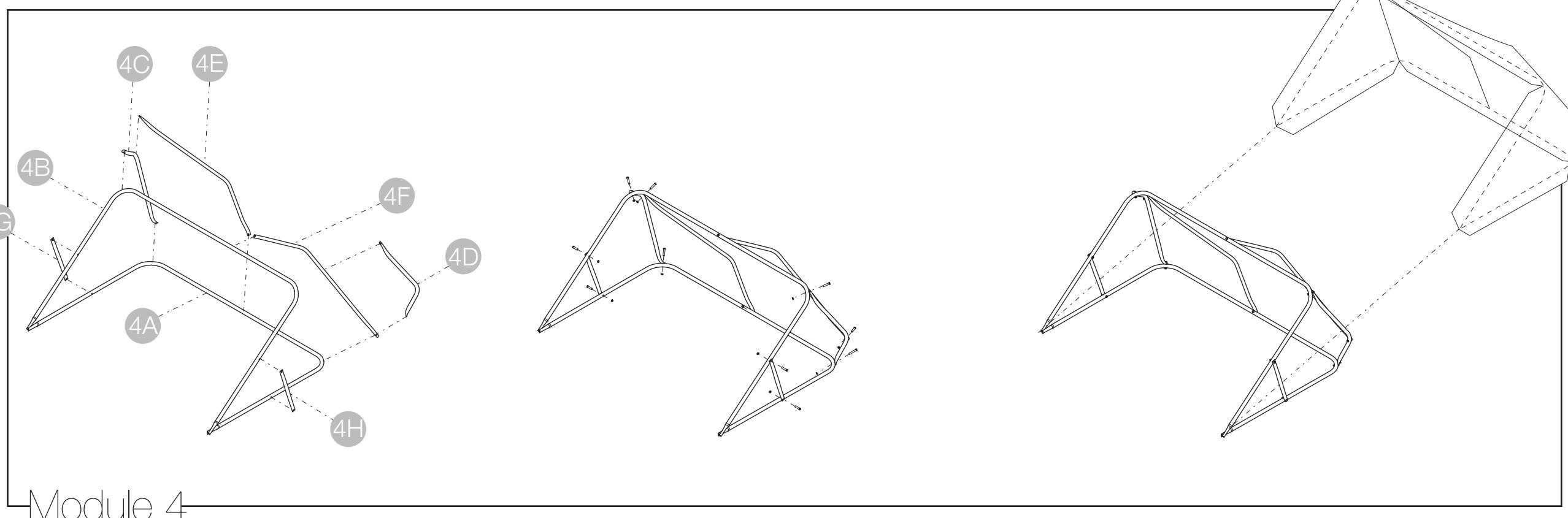
GROW Collective

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1' = 2"

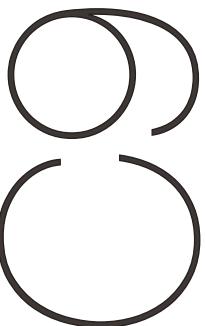


Moment  
Christoph Eckrich  
Cathy Dong  
Gil Jang  
Angelina Shi  
Daniel Noh  
Owen Haft

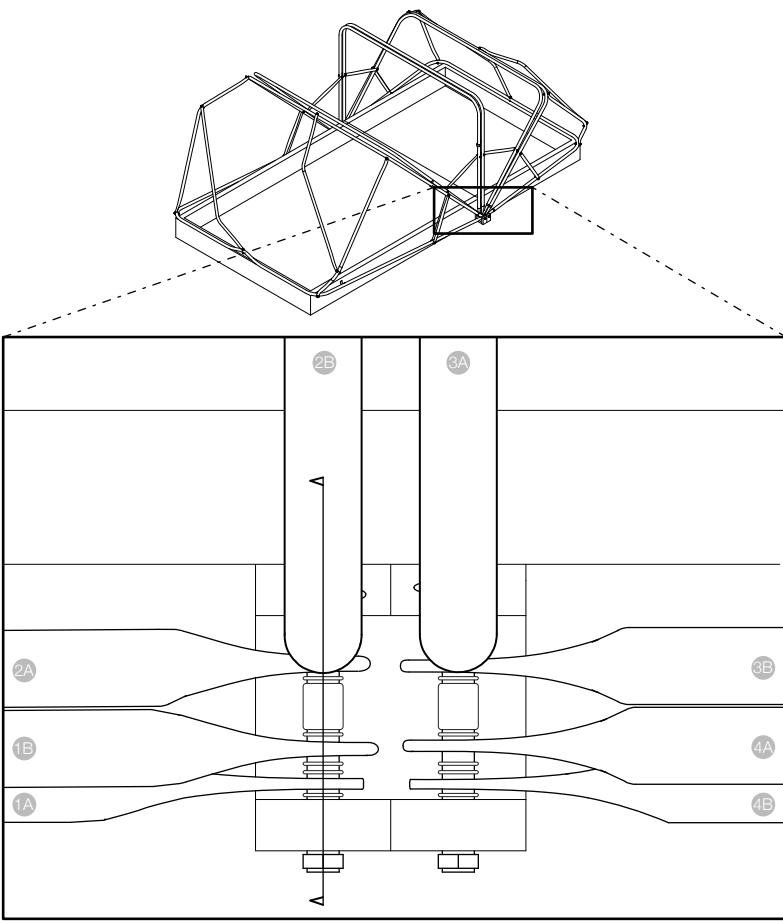
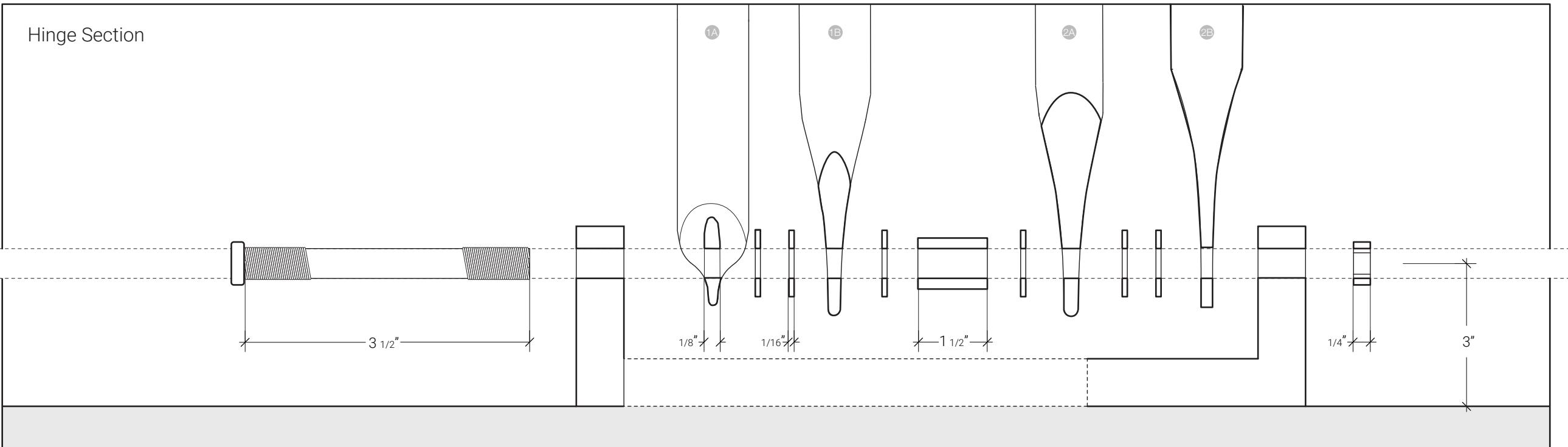
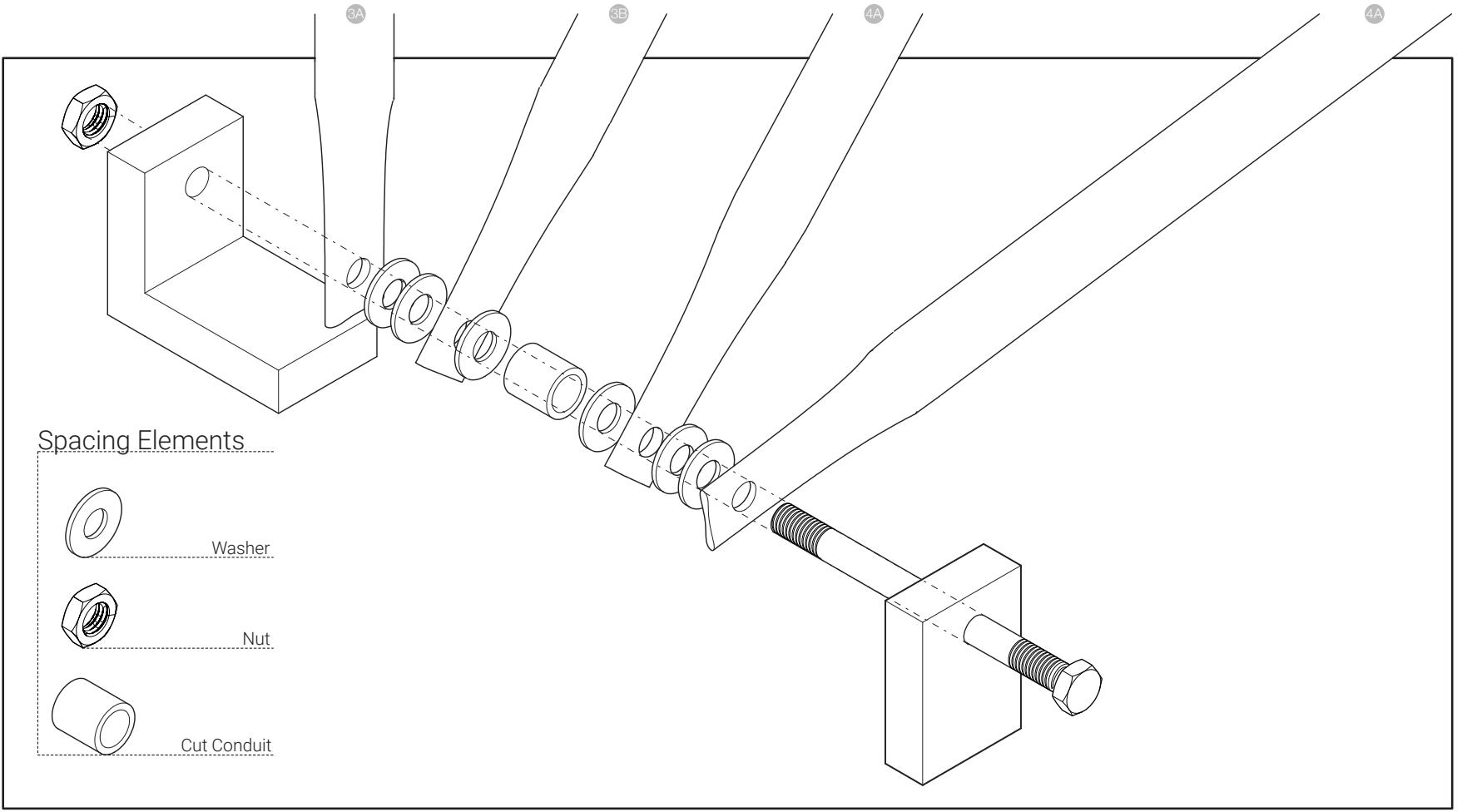


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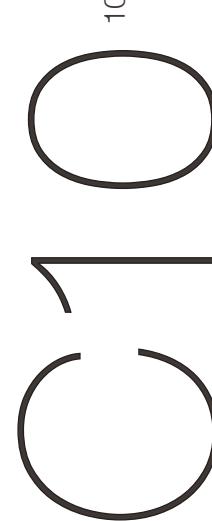
1' = 2"



Moment

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Cathy Dong  
Gil Jang  
Angelina Shi  
Daniel Noh  
Owen Haft

Hinge Detail

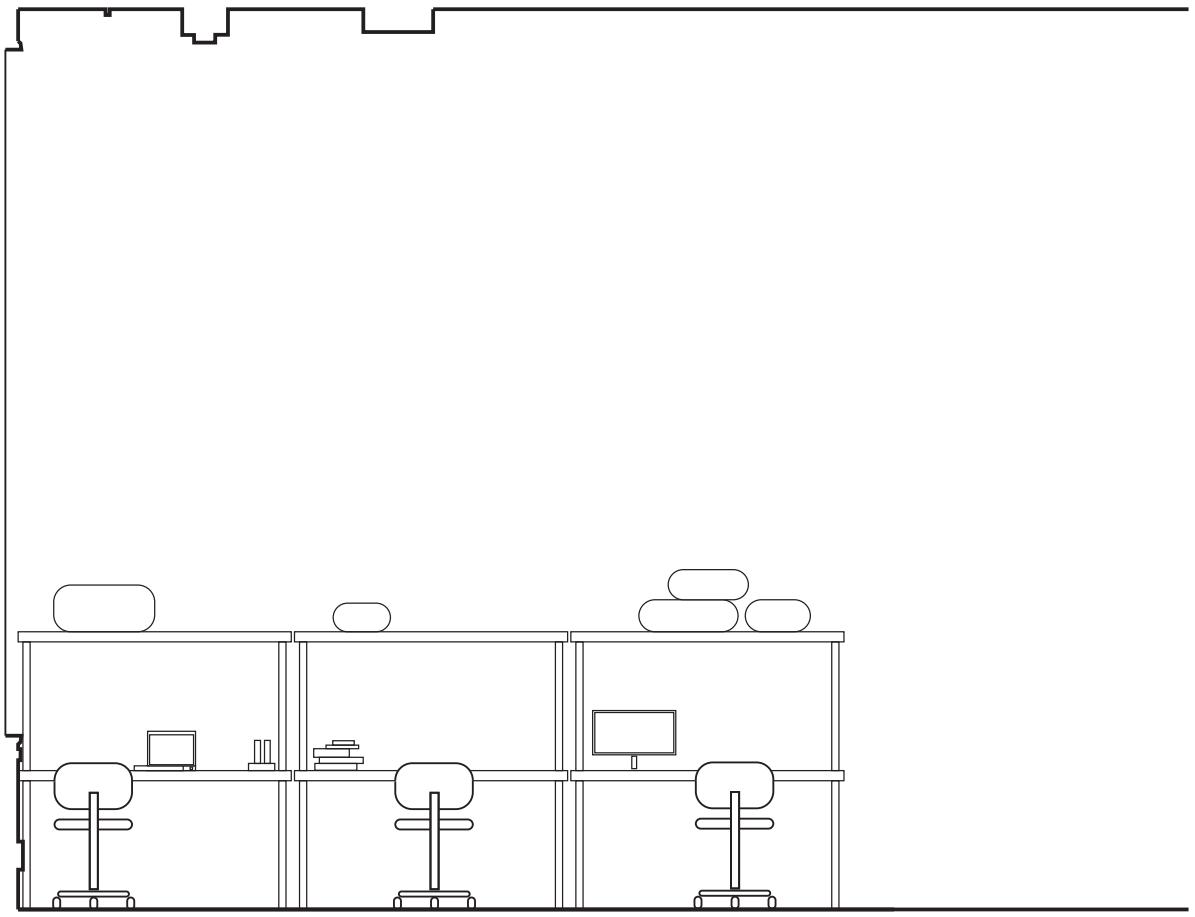


1' = 6"  
1' = 1'

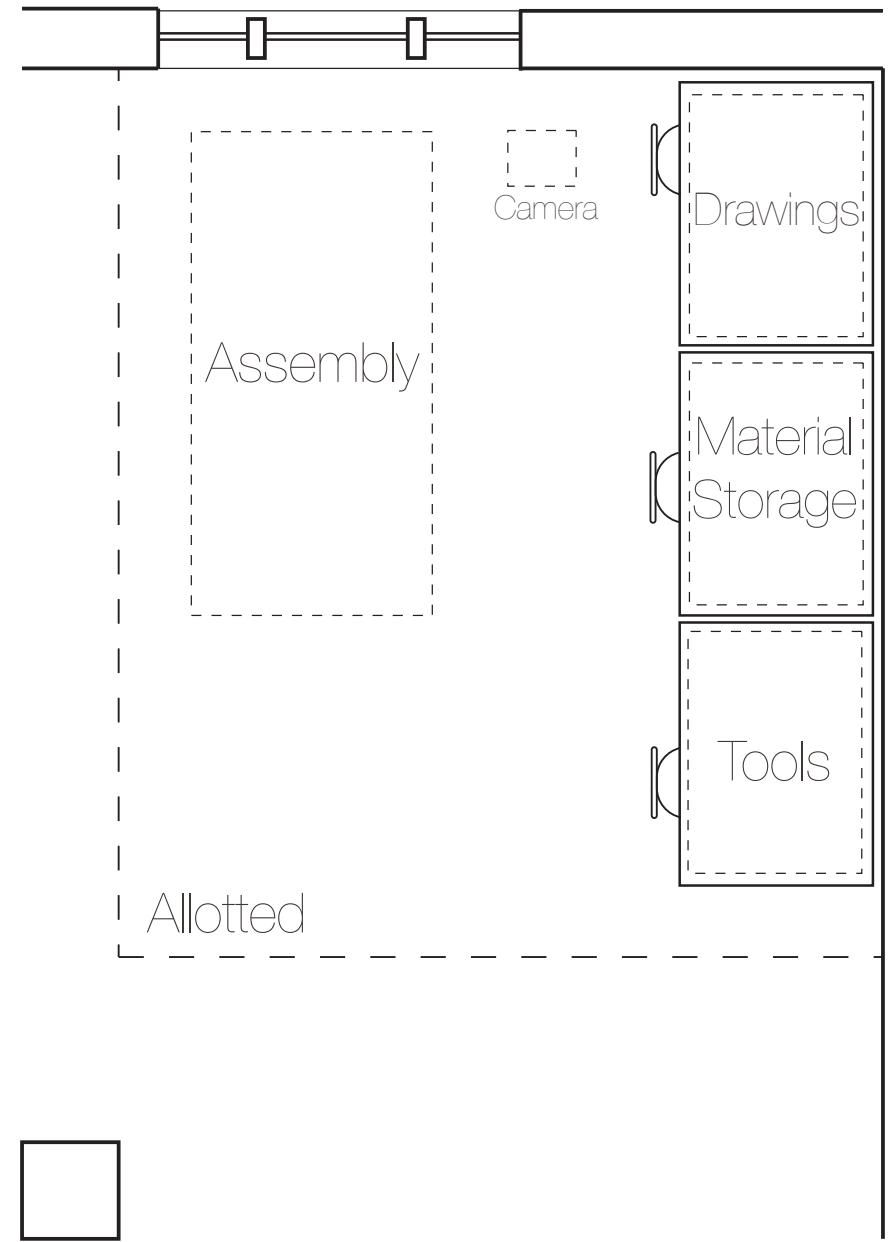
Grow Collective

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Section



Plan

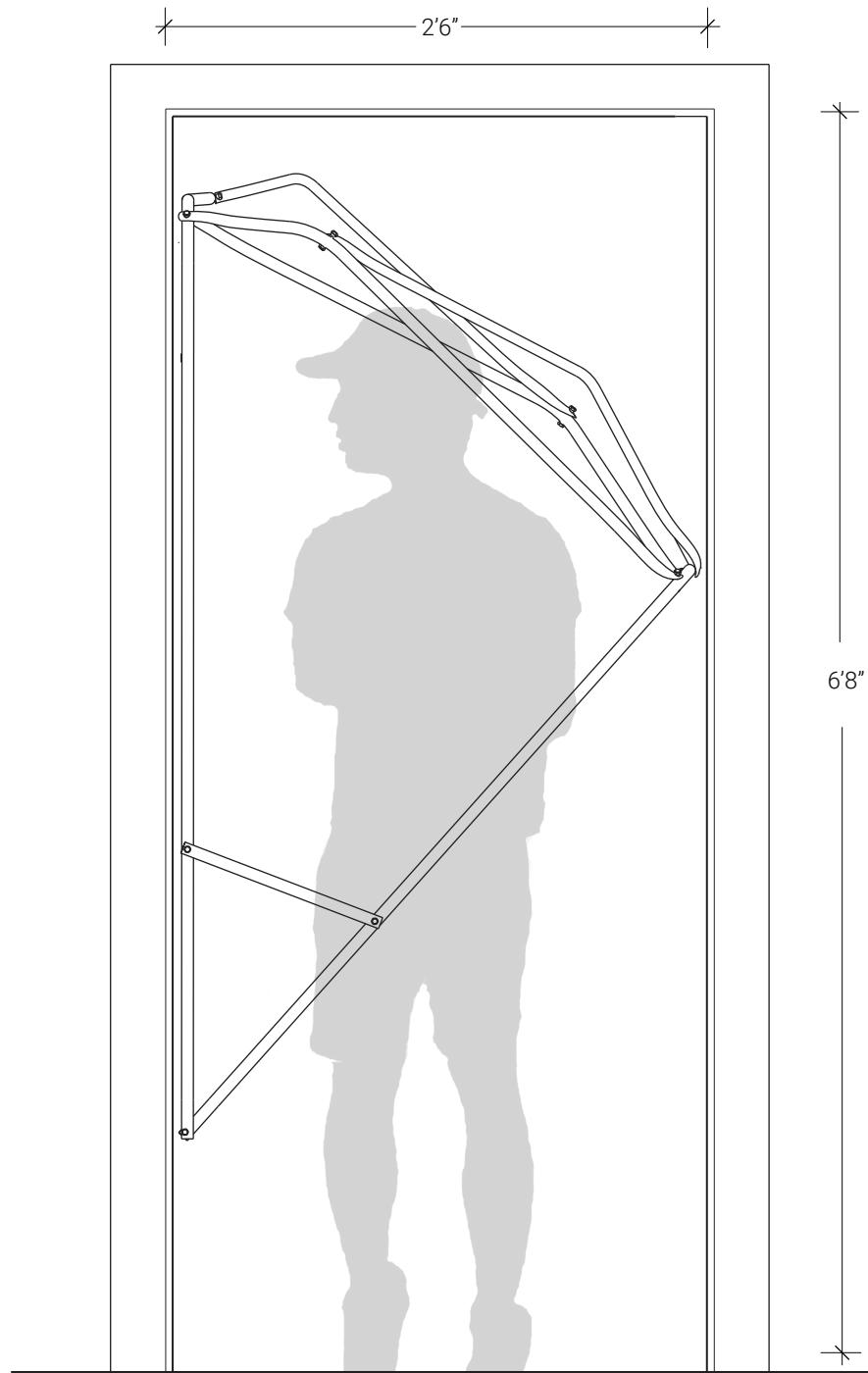
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 $3' = 1"$

Studio Set-Up

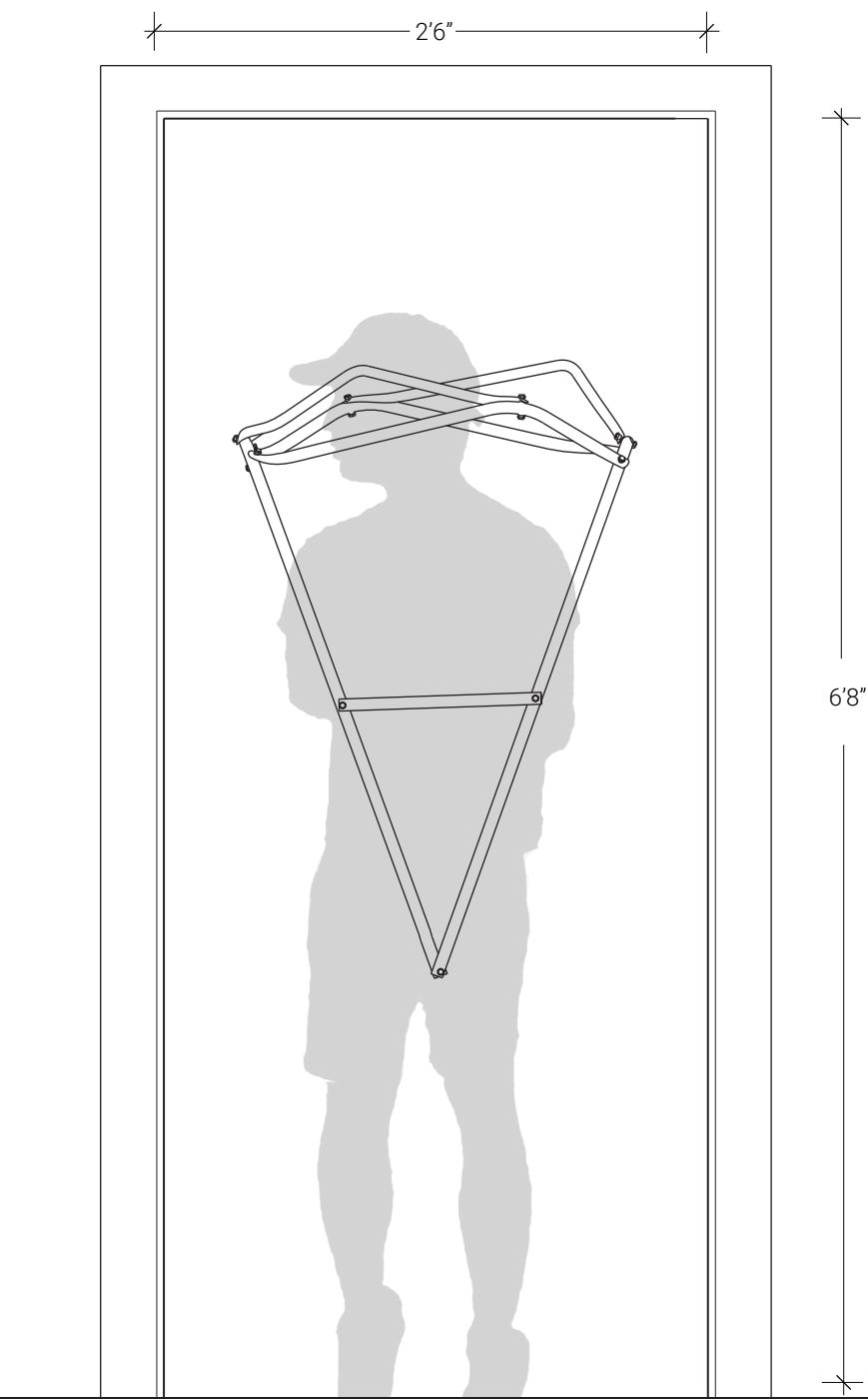
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Moment

Christoph Eckrich  
Cathy Dong  
Gil Jang  
Angelina Shi  
Daniel Noh  
Owen Haft



Modules 1/2



Modules 3/4

Grow Collective  
Hoop House Design/Build  
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Clearances  
D D 2

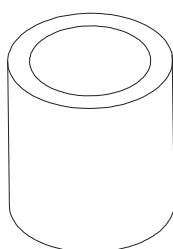
1' = 1"

Moment  
Christoph Eckrich  
Cathy Dong  
Gil Jang  
Angelina Shi  
Daniel Noh  
Owen Haft

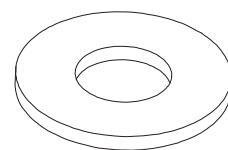
10.9.17

Material	Description	Amount	Price Per	Cost
Conduit	10' Length	13 tubes	\$2.61 per 10'	\$33.93
Plastic Sheet	-	266 sq ft.	\$0.10 per sq ft.	\$26.60
Bolt Type A	3-1/2" Length	4	\$1.19 per bolt	\$4.76
Bolt Type B	1-1/2" Length	40	\$8.24 per 50	\$8.24
Nut	-	44	\$5.50 per 25	\$11.00
Washers	1/16" Thickness	24	\$2.68 per 25	\$2.68
PVC	10' Length	1 tube	\$2.17 per 10'	\$2.17
Tape	Double-Sided	1 roll	\$19.97 per roll	\$19.97

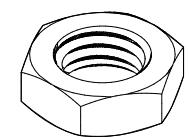
Total Cost: \$109.35



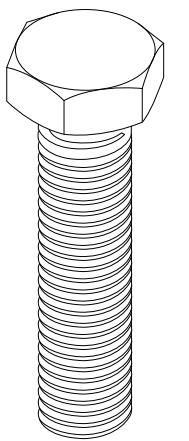
Cut Conduit



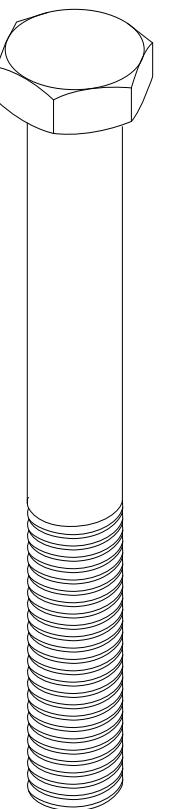
Washer



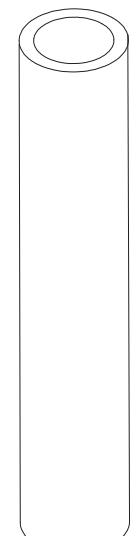
Nut



Bolt Type B



Bolt Type A



Cut PVC

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Edible Garden

Materials List & Costs

D3 10.9.17

Moment  
Christoph Eckrich  
Cathy Dong  
Gil Jang  
Angelina Shi  
Daniel Noh  
Owen Haft