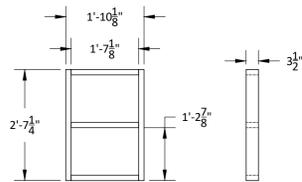
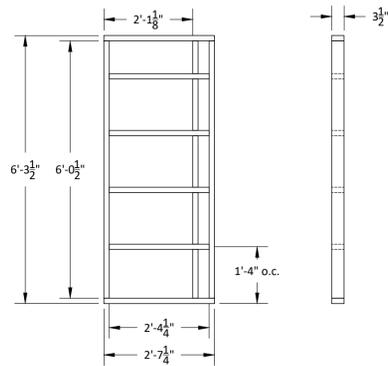


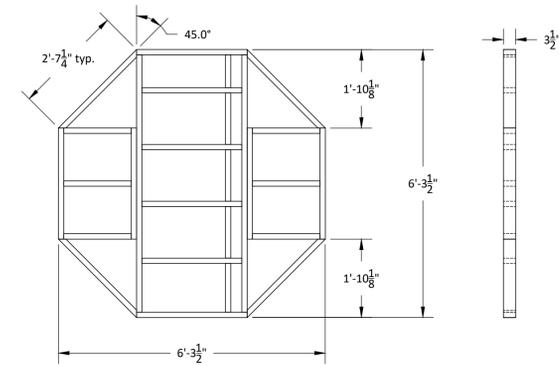
1 Octagon Unit Iso
R06



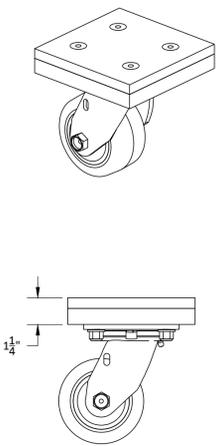
2 Frame 1- Scale: 1/2"=1'-0"
R06 Build 2 from 2x4.
Glue and screw.



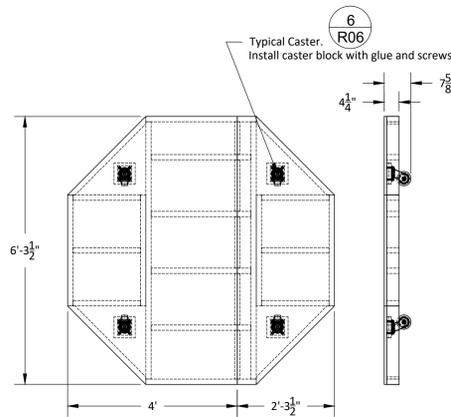
3 Frame 2- Scale: 1/2"=1'-0"
R06 Build 1 from 2x4.
Glue and screw.



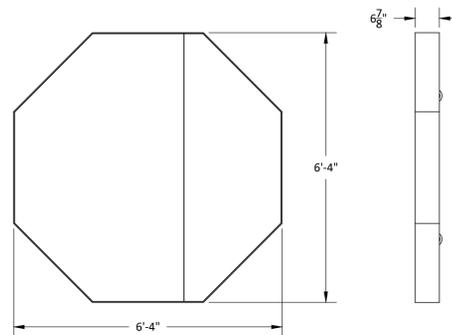
4 Frame Assembly- Scale: 1/2"=1'-0"
R06 Bolt frames 1 & 2 with 3/8" hex
head bolts and nylocs.
Add connectors, glue and screw.



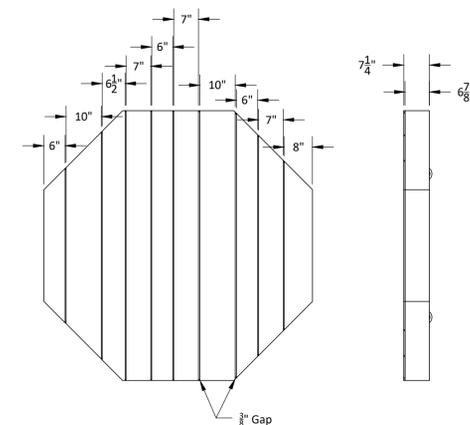
6 Caster Block- Scale: 1/2"=1'-0"
R06 Add Lehigh Casters to plywood
build up as shown.
Use 3/8"x2.5" FHMS and Nylocs



7 Deck- Scale: 1/2"=1'-0"
R06 Deck frame with 3/4" CDX plywood.
Glue and screw.



8 Facing- Scale: 1/2"=1'-0"
R06 Face unit with 1/8" Whitewood plywood.
Glue and staple, add seam catches behind as
needed. All corners should be mitered.
Facing caps plywood deck.



9 Planks- Scale: 1/2"=1'-0"
R06 Plank unit with 3/8" CDX plywood.
Glue and brad.
Flush route to facing.



Rep 2018

Octagon Unit Wagon

Director: Mulchay/Lamparelli

Designer: D.Conway

Tech Director: Aaron Mayer

Drafted By: A.Mayer

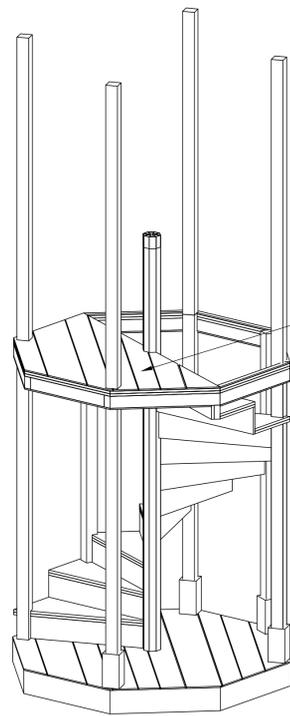
DWG Date: 6/26/2018

REV Date:

Scale: As Noted

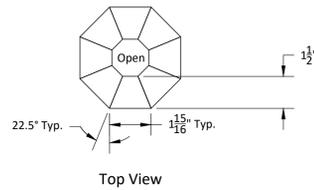
DWG #:

R06

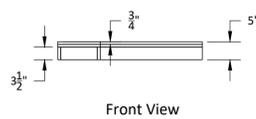
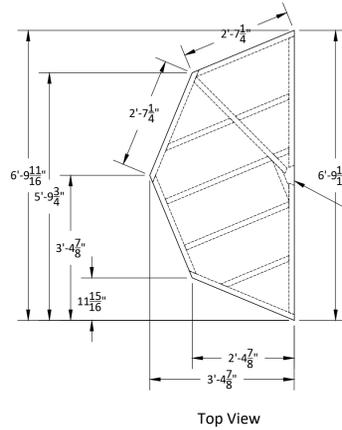


3
R07

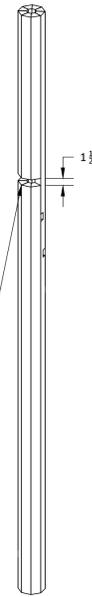
1
R07
Octagon Unit Iso



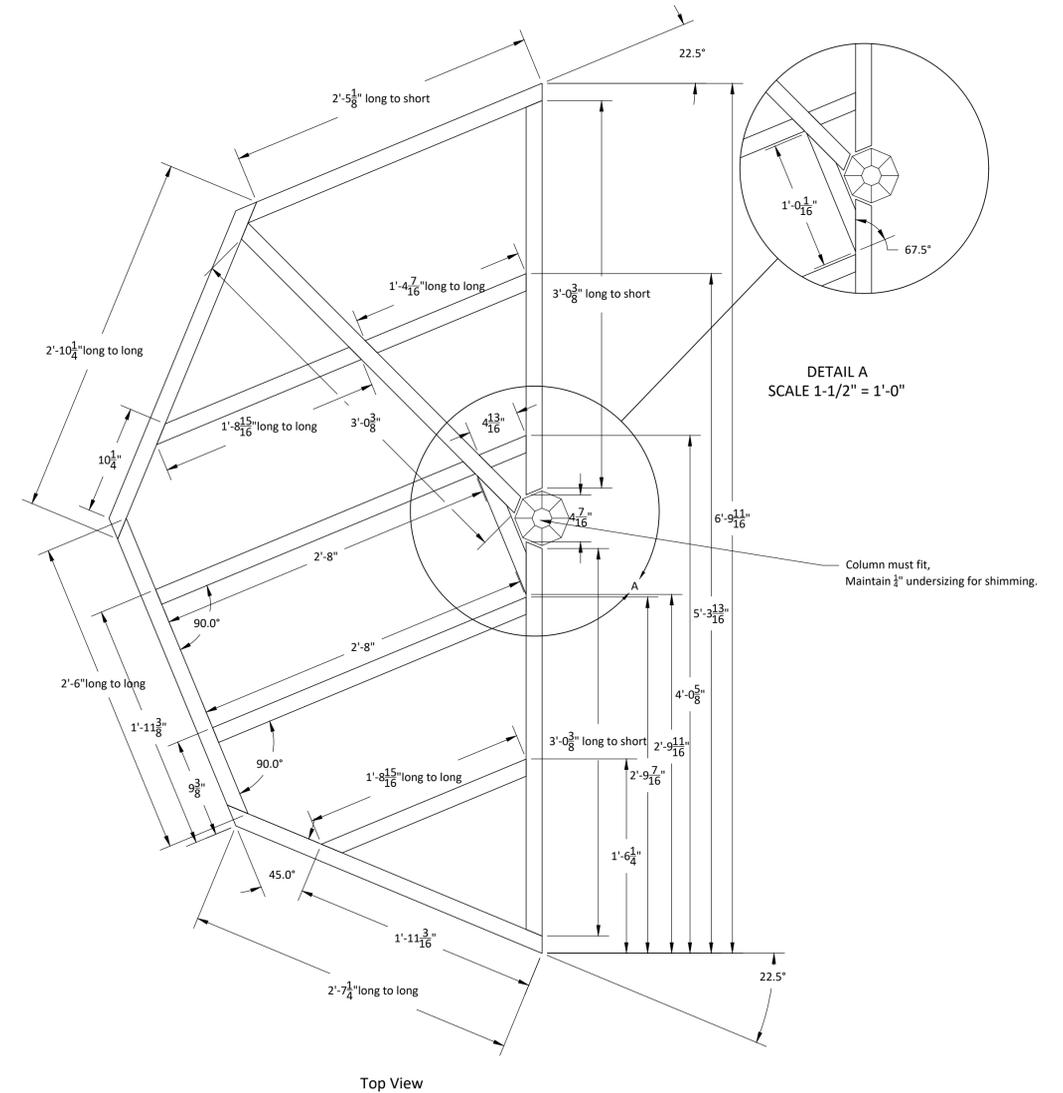
2
R07
Column Sample- Scale: 3/4"=1'-0"
Build 1 from ripped 2x4.
Glue and staple in halves.
Then glue and screws halves.



3
R07
Landing Platform Deck- Scale: 3/4"=1'-0"
Build 2 from 3/4" CDX Plywood.
Unit is symmetrical, use segment
dimensions for reference.

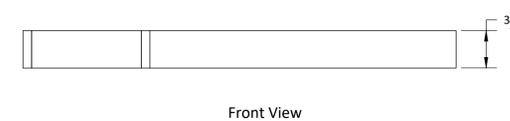


Plywood receives into the center column.
Do not notch to platform frame.



DETAIL A
SCALE 1-1/2" = 1'-0"

Column must fit,
Maintain 1/8" undersizing for shimming.



4
R07
Landing Platform Frame- Scale: 3/4"=1'-0"
Build 1 from 2x4.
Build to fit lid. Center must fit column
Glue and screw.



Rep 2018

Octagon Unit- Landing Platform

Director: Mulchay/Lamparelli

Designer: D.Conway

Tech Director: Aaron Mayer

Drafted By: A.Mayer

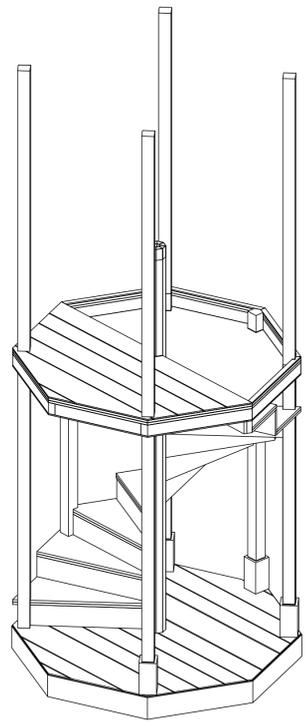
DWG Date: 6/26/2018

REV Date:

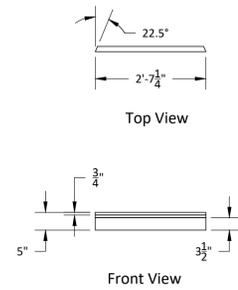
Scale: As Noted

DWG #:

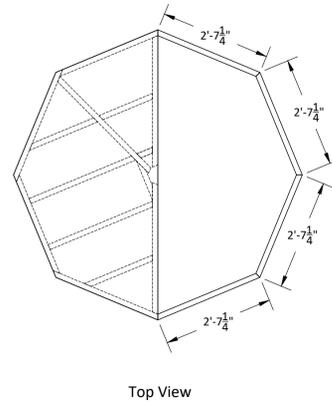
R07



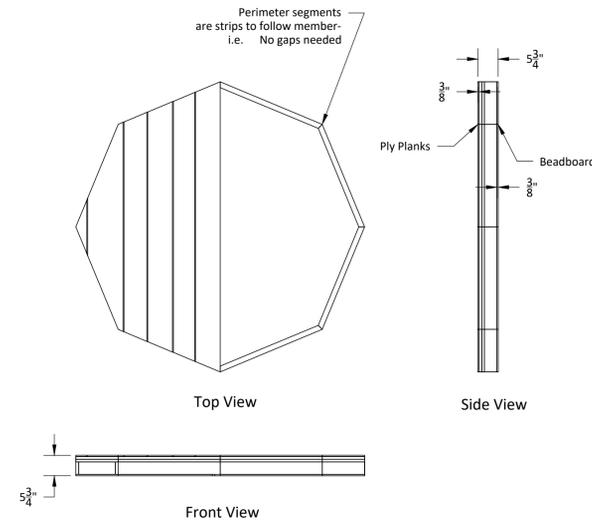
1
R08 Octagon Unit Iso



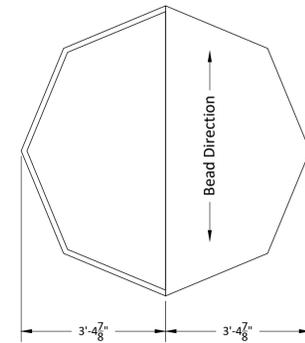
2
R08 Perimeter Segments- Scale: 1/2"=1'-0"
Build 4 from 2x4 and 3/4" Plywood.
Glue and Screw.



3
R08 Perimeter Assembly- Scale: 1/2"=1'-0"
Attach perimeter segments with
screws only- Segments should detach
from landing for storage/load in.

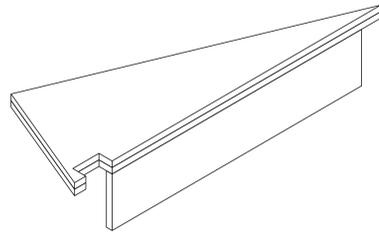


4
R08 Planking- Scale: 1/2"=1'-0"
Plank top of landing with 3/8" CDX plywood planks.
Planks should match base wagon widths.
Brad Nail.



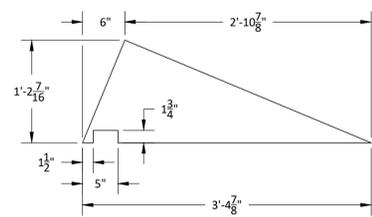
Bottom View-
Must be removable,
will notch for posts and install at load in.

5
R08 Planking- Scale: 1/2"=1'-0"
Skin bottom with 2 sheets beadboard,
Note Bead direction.
Flush route and remove.



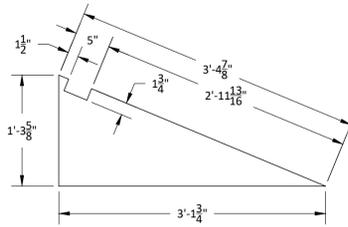
1 R09 Typical Tread Assembly Iso

- Double layer ply tread with 3/4" plywood facing.
- All facing should have pocket holes drilled on back for attachment to post, drill before cutting angles.
- All attachments should be well glued and screwed.



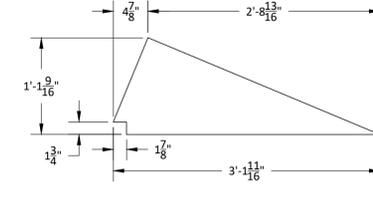
Top View

2 R09 Style 1- Scale: 1"=1'-0"
Build 4 from 3/4" CDX Plywood. Laminate in pairs.



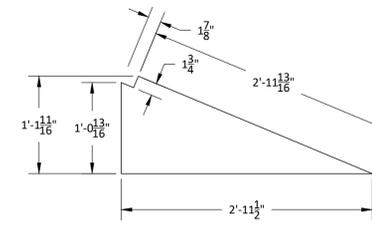
Top View

3 R09 Style 2- Scale: 1"=1'-0"
Build 2 from 3/4" CDX Plywood. Laminate as a pair.



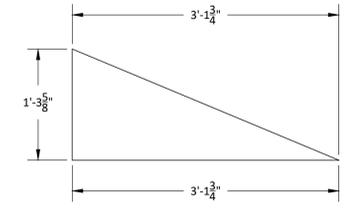
Top View

4 R09 Style 3- Scale: 1"=1'-0"
Build 6 from 3/4" CDX Plywood. Laminate in pairs.



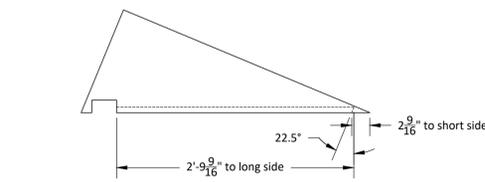
Top View

5 R09 Style 4- Scale: 1"=1'-0"
Build 6 from 3/4" CDX Plywood. Laminate in pairs.

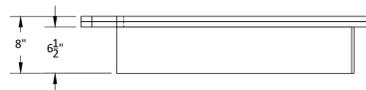


Top View

6 R09 Style 5- Scale: 1"=1'-0"
Build 2 from 3/4" CDX Plywood. Laminate as a pair.



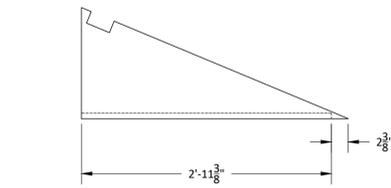
Top View



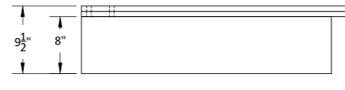
Front View

7 R09 +16" Step- Scale: 1"=1'-0"

Assemble 1 from Tread Style 1 and 3/4" CDX Plywood Facing. Drill 3 pocket holes before cutting angle on back of facing to attach to column.



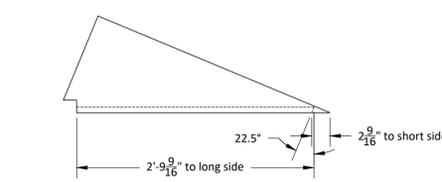
Top View



Front View

8 R09 +24" Step- Scale: 1"=1'-0"

Assemble 1 from Tread Style 2 and 3/4" CDX Plywood Facing. Drill 3 pocket holes before cutting angle on back of facing to attach to column.



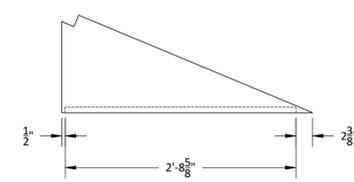
Top View



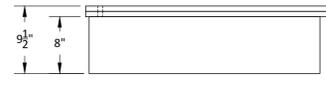
Front View

9 R09 +32" Step- Scale: 1"=1'-0"

Assemble 1 from Tread Style 3 and 3/4" CDX Plywood Facing. Drill 3 pocket holes before cutting angle on back of facing to attach to column.



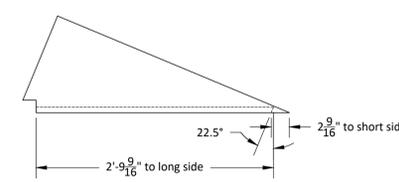
Top View



Front View

10 R09 +40" Step- Scale: 1"=1'-0"

Assemble 1 from Tread Style 4 and 3/4" CDX Plywood Facing. Drill 3 pocket holes before cutting angle on back of facing to attach to column.



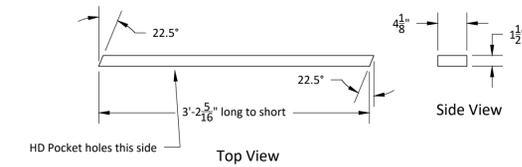
Top View



Front View

11 R09 +48" Step- Scale: 1"=1'-0"

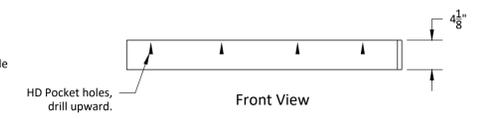
Assemble 1 from Tread Style 3 and 3/4" CDX Plywood Facing. Drill 3 pocket holes before cutting angle on back of facing to attach to column.



HD Pocket holes this side

Top View

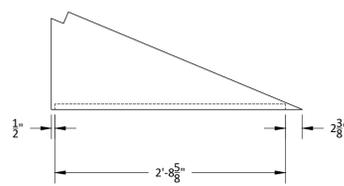
Side View



Front View

17 R09 Top Riser- Scale: 1"=1'-0"

Build 1 from 2x. Drill 4 HD pocket holes, facing up.



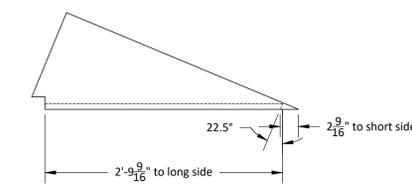
Top View



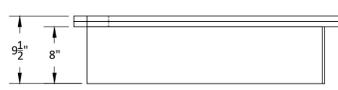
Front View

12 R09 +56" Step- Scale: 1"=1'-0"

Assemble 1 from Tread Style 4 and 3/4" CDX Plywood Facing. Drill 3 pocket holes before cutting angle on back of facing to attach to column.



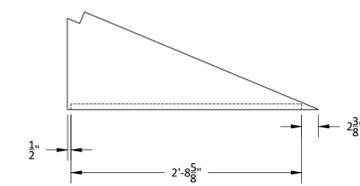
Top View



Front View

13 R09 +64" Step- Scale: 1"=1'-0"

Assemble 1 from Tread Style 3 and 3/4" CDX Plywood Facing. Drill 3 pocket holes before cutting angle on back of facing to attach to column.



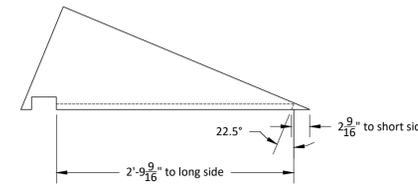
Top View



Front View

14 R09 +72" Step- Scale: 1"=1'-0"

Assemble 1 from Tread Style 4 and 3/4" CDX Plywood Facing. Drill 3 pocket holes before cutting angle on back of facing to attach to column.



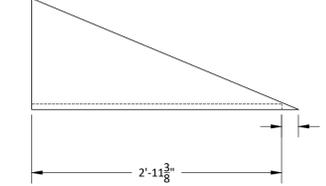
Top View



Front View

15 R09 +80" Step- Scale: 1"=1'-0"

Assemble 1 from Tread Style 1 and 3/4" CDX Plywood Facing. Drill 3 pocket holes before cutting angle on back of facing to attach to column.



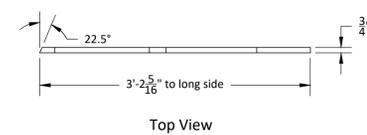
Top View



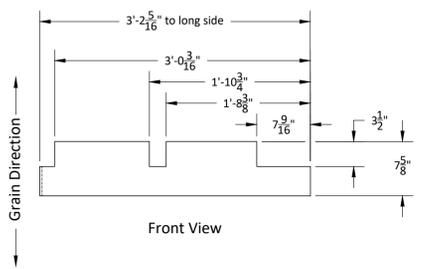
Front View

16 R09 +88" Step- Scale: 1"=1'-0"

Assemble 1 from Tread Style 5 and 3/4" CDX Plywood Facing. Drill 3 pocket holes before cutting angle on back of facing to attach to column.



Top View



Front View

18 R09 Top Riser Scab- Scale: 1"=1'-0"

Build 1 from 3/4" CDX Plywood Facing. Note grain direction.



Rep 2018

Octagon Unit- Treads

Director: Mulchay/Lamparelli

Designer: D.Conway

Tech Director: Aaron Mayer

Drafted By: A.Mayer

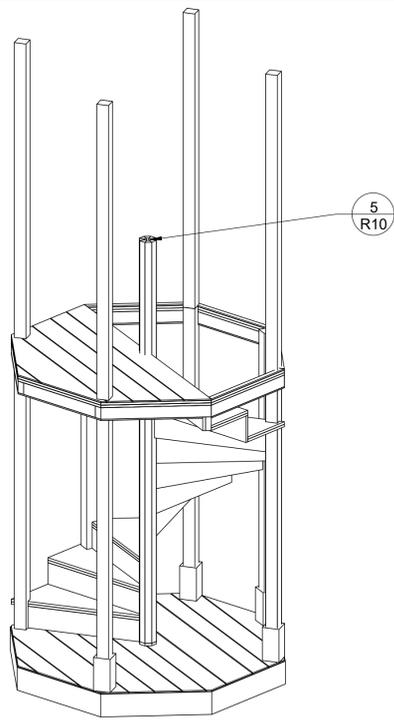
DWG Date: 6/26/2018

REV Date:

Scale: As Noted

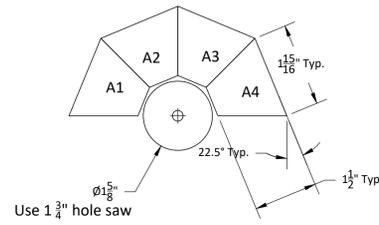
DWG #:

R09

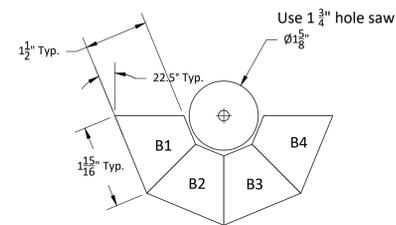


5
R10

Note: Overall column length shown is finished size.
Oversize length to allow for fine tuning sanding at bottom to true bottom to base plate, then cut assembly to length at top.
 Use $1\frac{3}{4}$ " hole saw to create $1\frac{5}{8}$ " plywood discs. Pre-drill and screw discs to column as indicated.
 See plate R11 for notch details.



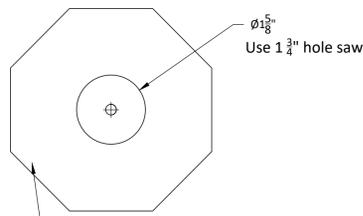
"A" Half
 Top View- Scale 6"=1'-0"



"B" Half
 Top View- Scale 6"=1'-0"

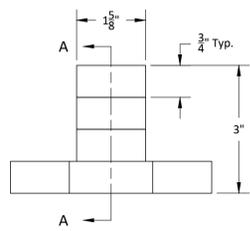
1
R10

Unit Iso

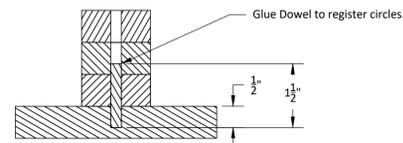


Top View

Cut octagon from full scale template, it should match the center column



Front View

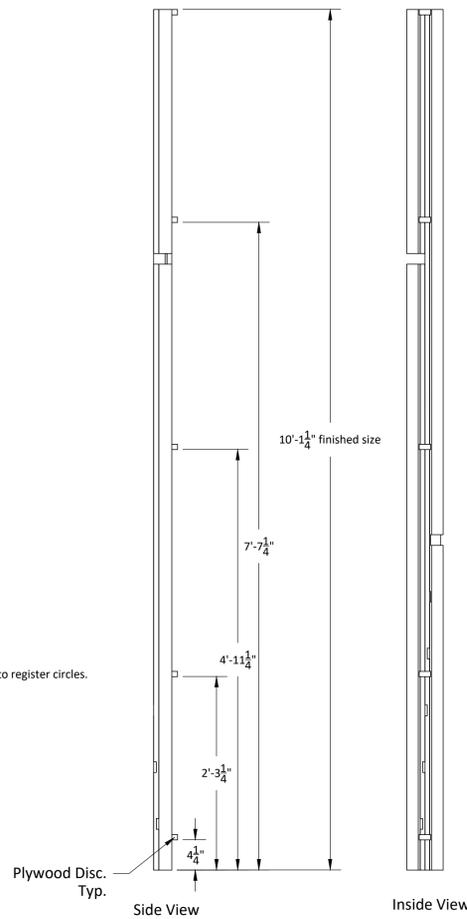


SECTION A-A
 SCALE 6" = 1'-0"

2
R10

Base Plate- Scale: 6"=1'-0"

Build 1 from $\frac{3}{4}$ " Plywood and $\frac{1}{4}$ "x $1\frac{1}{2}$ " Glue dowel.
 Glue and Brad assembly.



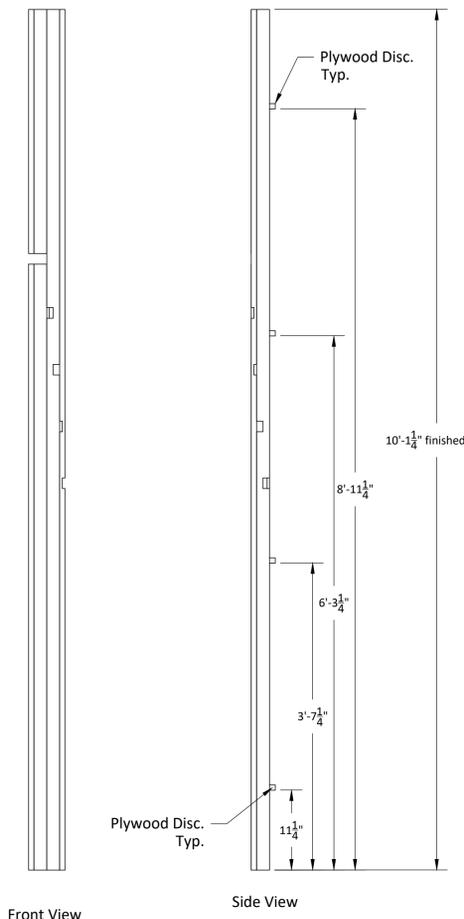
Side View

Inside View

3
R10

Column "A" Half- Scale: 1"=1'-0"

Build 1 from ripped 2x4 and $\frac{3}{4}$ " Plywood discs.
 Glue and Staple 2x; Glue, Pre-Drill, Screw plywood discs.



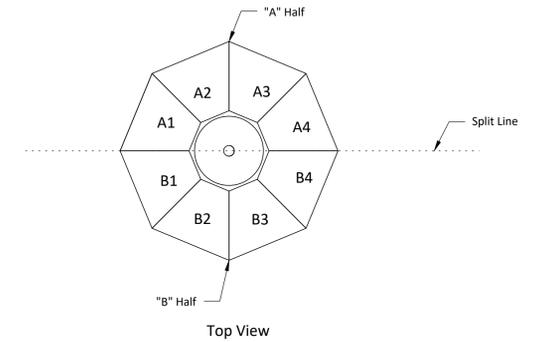
Front View

Side View

4
R10

Column "B" Half- Scale: 1"=1'-0"

Build 1 from ripped 2x4 and $\frac{3}{4}$ " Plywood discs.
 Glue and Staple 2x; Glue, Pre-drill, Screw plywood discs.



Top View

5
R10

Column Assembly- Scale: 1"=1'-0"

Assemble Column with Screws ONLY.
 (Will glue at final assembly.)
 Screw 2x and plywood discs for complete connection.
 Test fit the base plate again when column is completely assembled.

Rep 2018

Octagon Unit- Center Column Assembly

Director: Mulchay/Lamparelli

Designer: D.Conway

Tech Director: Aaron Mayer

Drafted By: A.Mayer

DWG Date: 6/29/2018

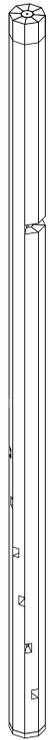
REV Date:

Scale: As Noted

DWG #:

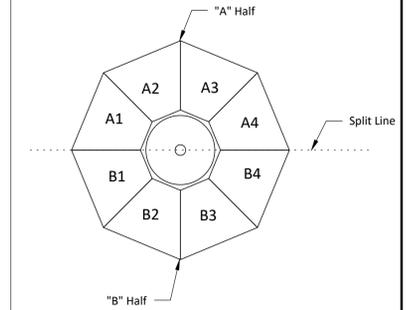
R10



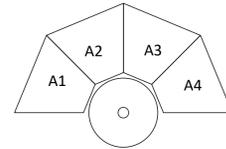


2
R11 Column Notches- Scale: As Noted

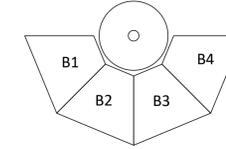
Separate Column to A and B halves. Label segments.
Use cutting process for notches as laid out below.
NOTCHES MUST BE TIGHT WITH TREADS.



4
R11 Column Assembly- Scale: 1"=1'-0"

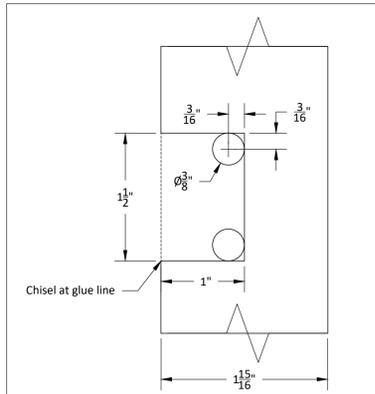


"A" Half Assembled
Top View- Scale 6"=1'-0"



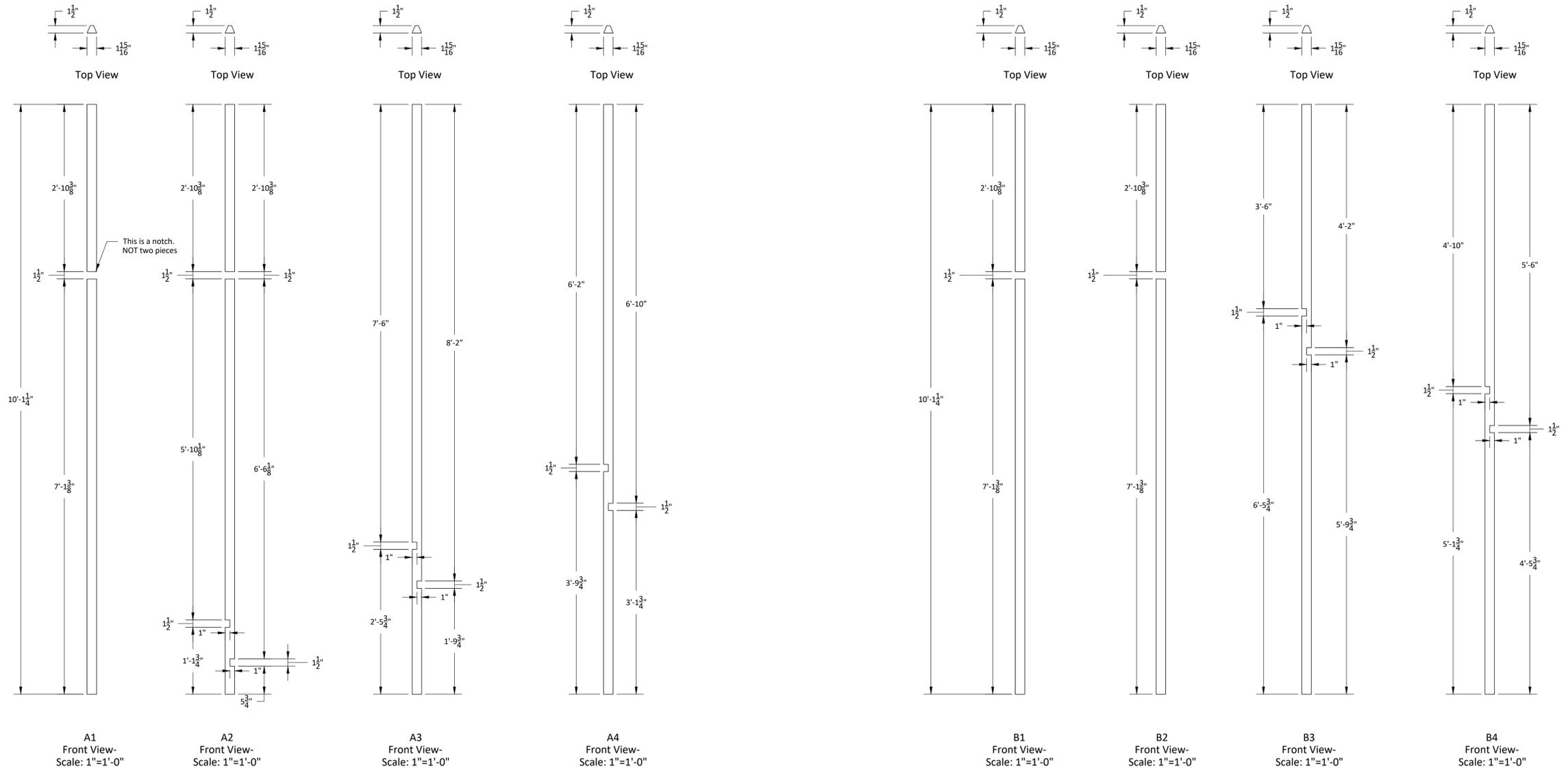
"B" Half Assembled
Top View- Scale 6"=1'-0"

1
R11 Unit Iso



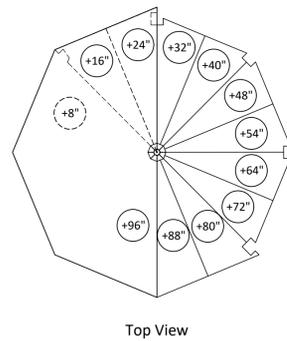
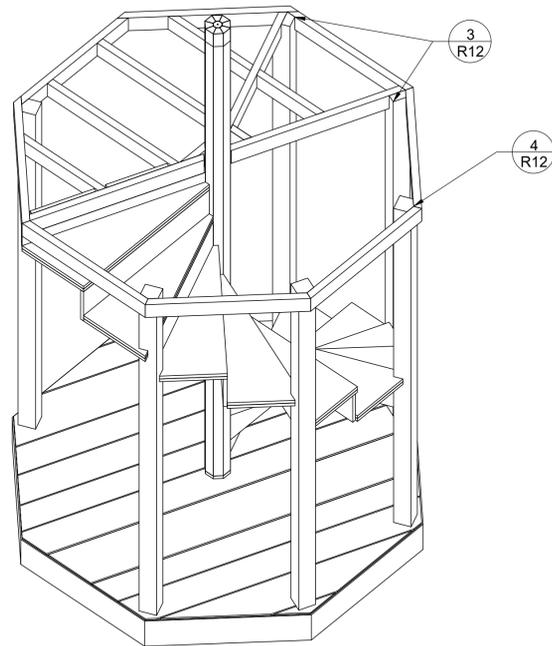
3
R11 Notch Process- Scale: Full Scale
NOTCHES MUST BE TIGHT WITH TREADS.

- Use dimensions to find notch perimeter.
- Measure for $\frac{3}{8}$ " dia holes at top and bottom of notch.
- Drill holes, use jig saw to cut notch, finally chisel at glue joint.

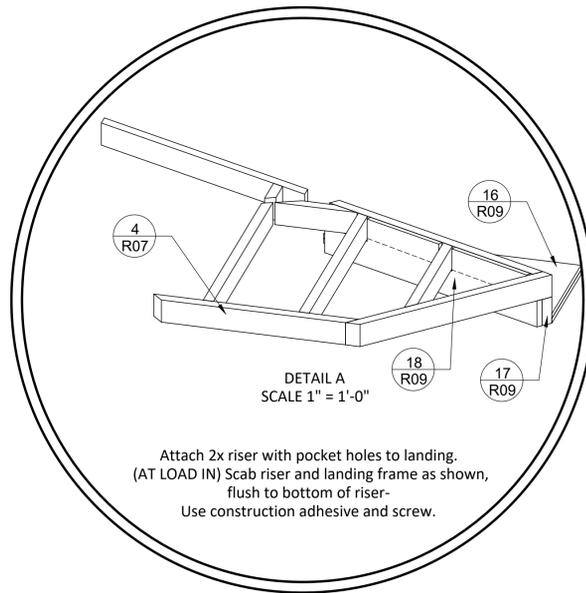


Rep 2018

Octagon Unit- Column Notches		DWG #: R11
Director: Mulchay/Lamparelli	Designer: D.Conway	
Tech Director: Aaron Mayer	Drafted By: A.Mayer	
DWG Date: 6/29/2018	REV Date: _____	

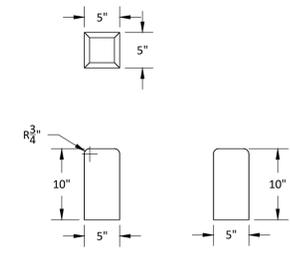


Top View



DETAIL A
SCALE 1" = 1'-0"

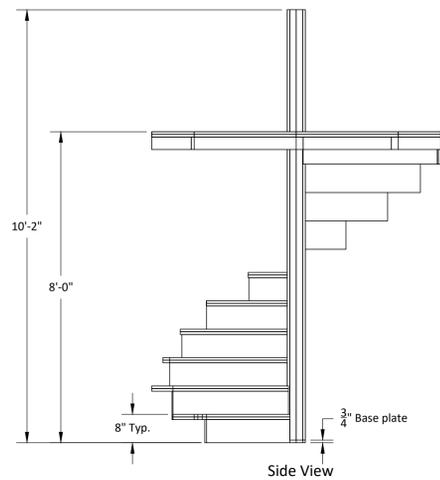
Attach 2x riser with pocket holes to landing.
(AT LOAD IN) Scab riser and landing frame as shown,
flush to bottom of riser.
Use construction adhesive and screw.



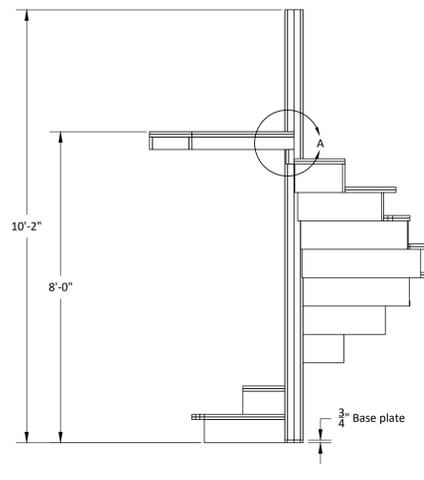
5 Pedestals- Scale: 1"=1'-0"

Build 6 from 3/4" plywood.
Grain runs along length.
Add round over.
DO NOT ATTACH- notches or cuts
may be needed at load in.

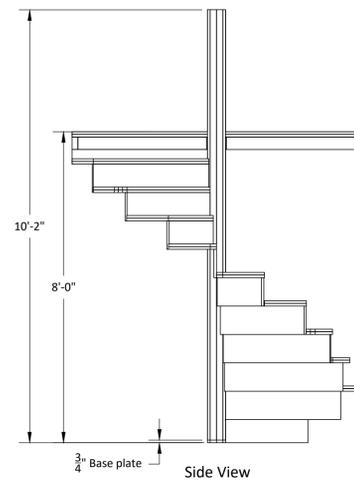
1 Unit Iso



Side View



Front View



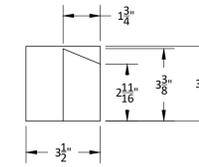
Side View

2 Step Layout- Scale: 1/2"=1'-0"

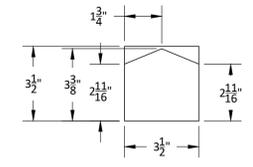
Dry Fit steps,
to be installed with glue and screws at load in.



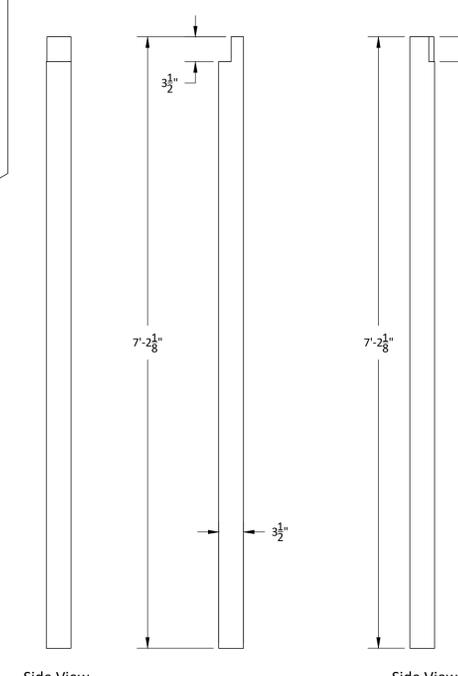
Iso View



Top View- Scale: 3"=1'-0"



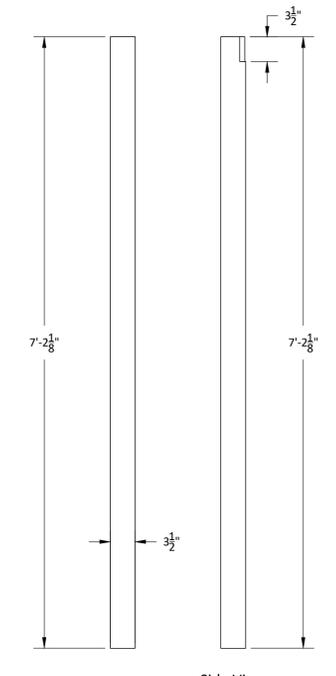
Top View- Scale: 3"=1'-0"



Side View

Front View

Side View



Front View

Side View



Iso View

3 Leg Style 1- Scale: 1"=1'-0"

Build 2 from 4x4.
Cut Notch.

4 Leg Style 2- Scale: 1"=1'-0"

Build 4 from 4x4.
Cut Notch.



Rep 2018

Octagon Unit- Step Layout and Legs

Director: Mulchay/Lamparelli

Designer: D.Conway

Tech Director: Aaron Mayer

Drafted By: A.Mayer

DWG Date: 6/29/2018

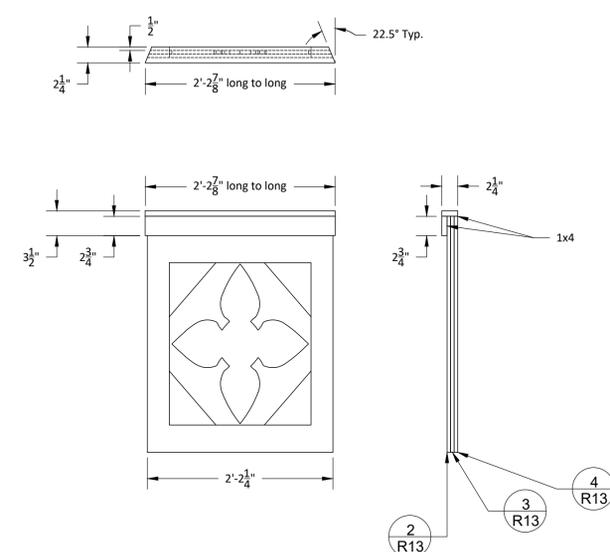
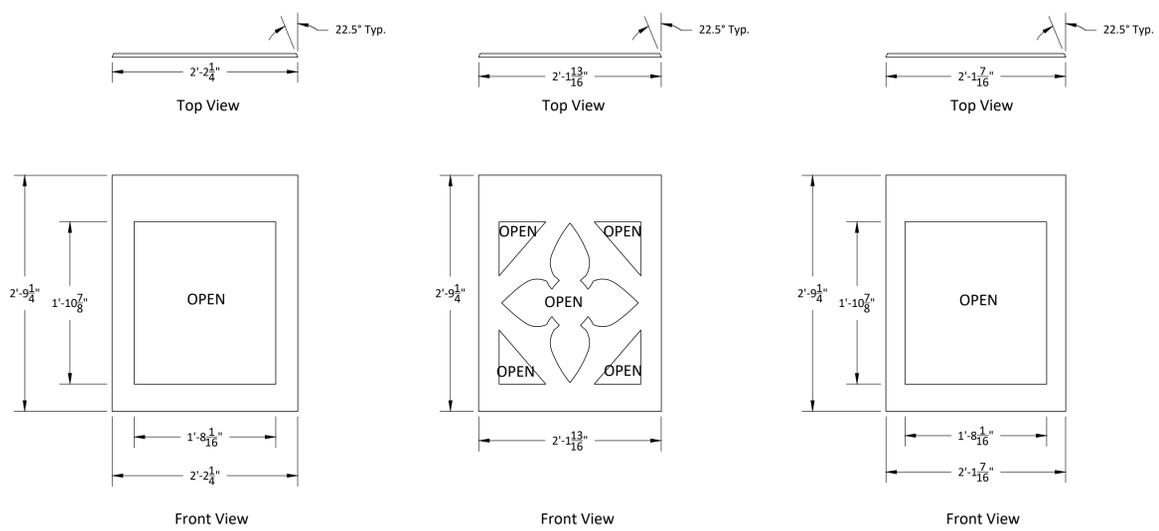
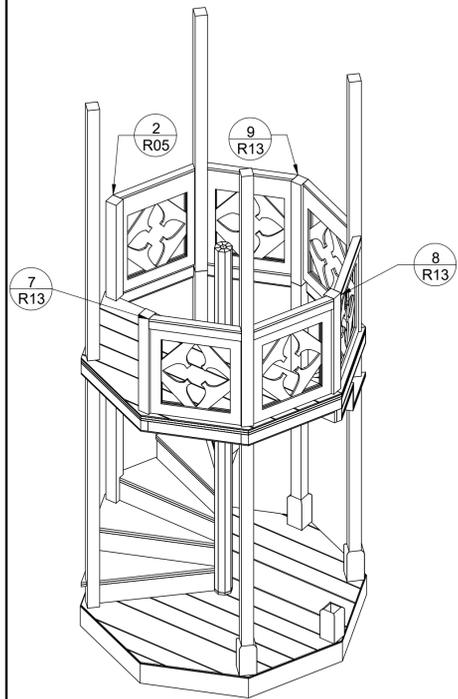
REV Date:

Scale: As Noted

DWG #:

R12

SAVE OFF CUT $\frac{1}{2}$ " Ply FOR ROOF SKIRT



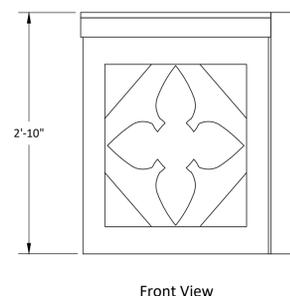
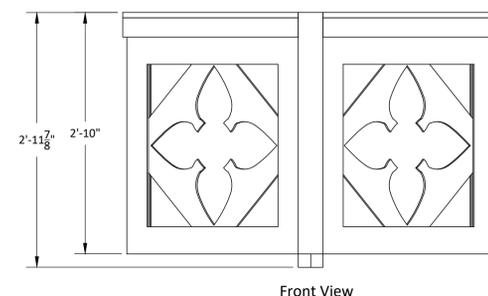
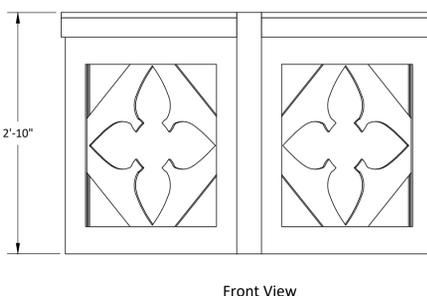
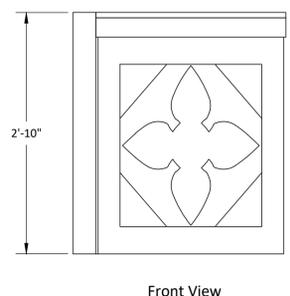
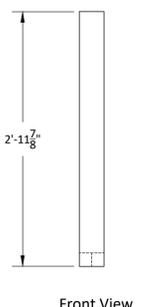
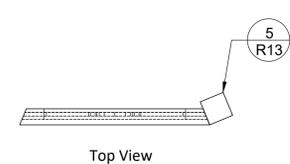
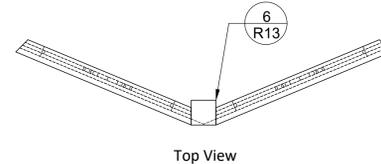
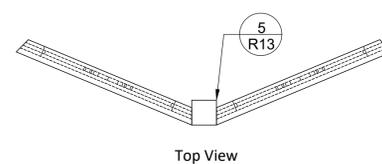
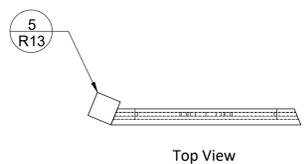
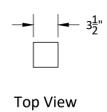
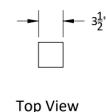
2
R13 Outer Layer- Scale: 1"=1'-0"
Build 6 from $\frac{3}{8}$ " CDX Plywood.
Grain should run vertical.
Track Saw middle open.

3
R13 Middle Layer- Scale: 1"=1'-0"
Flush route 6 from $\frac{3}{8}$ " CDX Plywood using template.
Grain should run vertical.

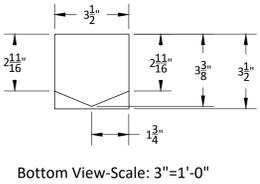
4
R13 Inner Layer- Scale: 1"=1'-0"
Build 6 from $\frac{3}{8}$ " CDX Plywood.
Grain should run vertical.
Track Saw middle open.

4
R13 Railing Build Up- Scale: 1"=1'-0"
Build 6 from components and ripped 1x4 cap.
Glue and Brad all.
Cut angles

1
R13 Unit Iso



5
R13 Railing Post 1- Scale: 1"=1'-0"
Build 3 from 4x4.



Bottom View-Scale: 3"=1'-0"

7
R13 Railing Assembly- Scale: 1"=1'-0"
Assemble 1 from components.
Glue and Screw all.
Note Railing 1x flushes to corner of 4x4.

8
R13 Railing Assembly- Scale: 1"=1'-0"
Assemble 1 from components.
Glue and Screw all.
Note Railing 1x flushes to corner of 4x4.

9
R13 Railing Assembly- Scale: 1"=1'-0"
Assemble 1 from components.
Glue and Screw all.
Note Railing 1x flushes to corner of 4x4.

10
R13 Railing Assembly- Scale: 1"=1'-0"
Assemble 1 from components.
Glue and Screw all.
Note Railing 1x flushes to corner of 4x4.

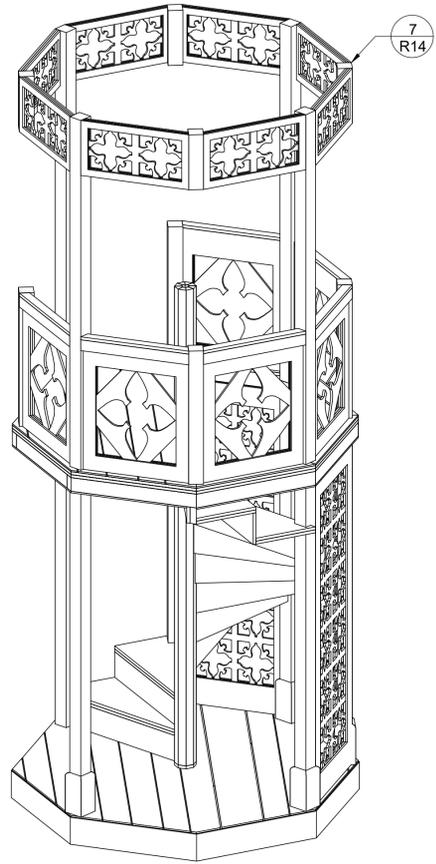
6
R13 Railing Post 2- Scale: 1"=1'-0"
Build 1 from 4x4.
CUT NOTCH ON BOTTOM ONLY.



Rep 2018

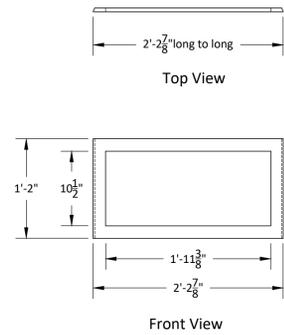
Octagon Unit- Railings

Director: Mulchay/Lamparelli	Designer: D.Conway	DWG #: R13
Tech Director: Aaron Mayer	Drafted By: A.Mayer	
DWG Date: 6/29/2018	REV Date:	

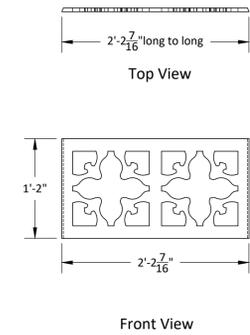


1 Unit Iso

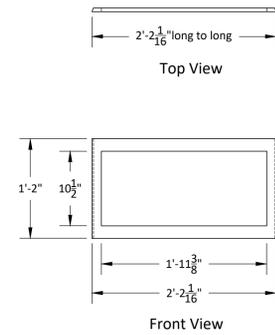
USE OFF CUT FROM SCRIM PANELS AND RAILINGS



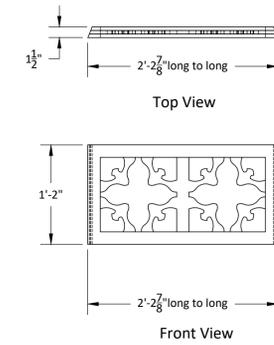
2 R14 Outer Layer- Scale: 1"=1'-0"
Build 8 from 1/2" CDX Plywood.
Grain should run vertical.
Track Saw middle open.



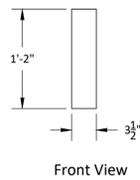
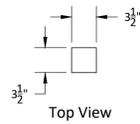
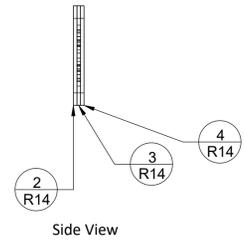
3 R14 Middle Layer- Scale: 1"=1'-0"
Flush route 8 from 1/2" CDX Plywood using template.
Grain should run vertical.



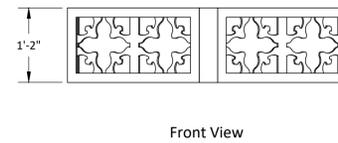
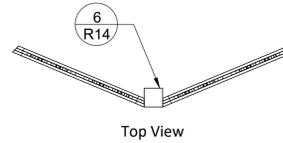
4 R14 Inner Layer- Scale: 1"=1'-0"
Build 8 from 1/2" CDX Plywood.
Grain should run vertical.
Track Saw middle open.



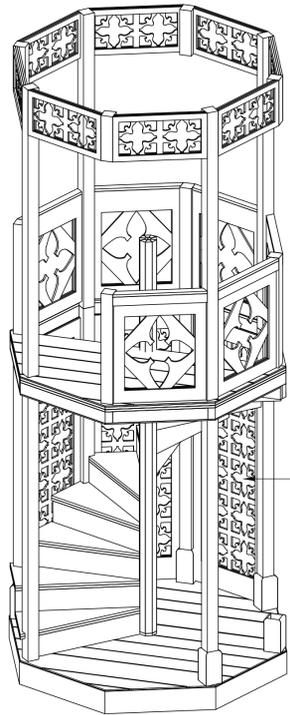
5 R14 Railing Build Up- Scale: 1"=1'-0"
Build 8 from components
Glue and Brad all.
Cut angles



6 R14 Railing Post 1- Scale: 1"=1'-0"
Build 3 from 4x4.

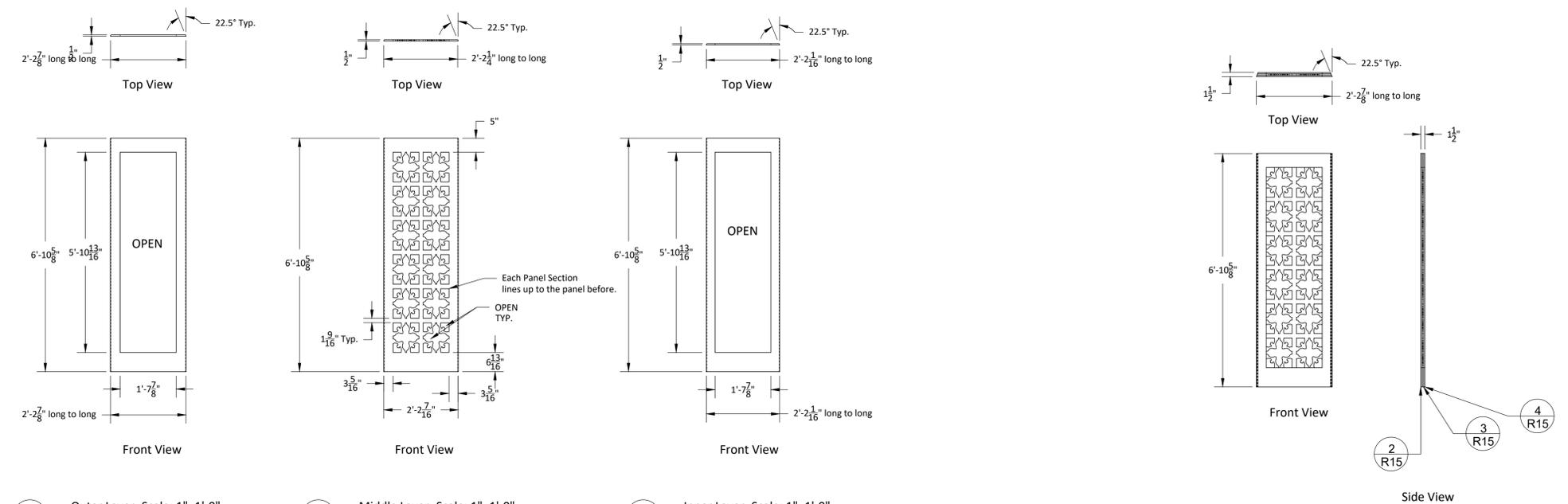


7 R14 Railing Assembly- Scale: 1"=1'-0"
Assemble 4 from components.
Glue and Screw.



1
R15 Unit Iso

SAVE OFF CUT $\frac{1}{2}$ " Ply FOR ROOF SKIRT



2
R15 Outer Layer- Scale: 1"=1'-0"
Build 3 from $\frac{1}{2}$ " CDX Plywood.
Grain should run vertical.
Track Saw middle open.

3
R15 Middle Layer- Scale: 1"=1'-0"
Flush route 3 from $\frac{1}{2}$ " CDX
Plywood using template.
Grain should run vertical.

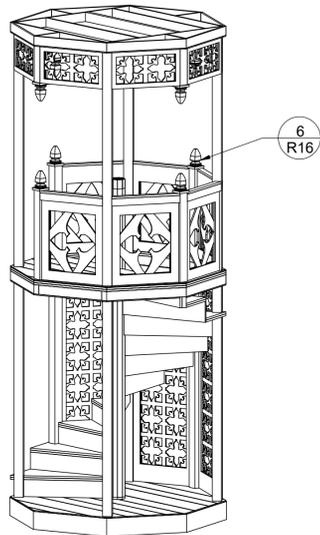
4
R15 Inner Layer- Scale: 1"=1'-0"
Build 3 from $\frac{1}{2}$ " CDX Plywood.
Grain should run vertical.
Track Saw middle open.

5
R15 Panel Build Up- Scale: 1"=1'-0"
Build 3 from components
Glue and Brad all.
Cut angles

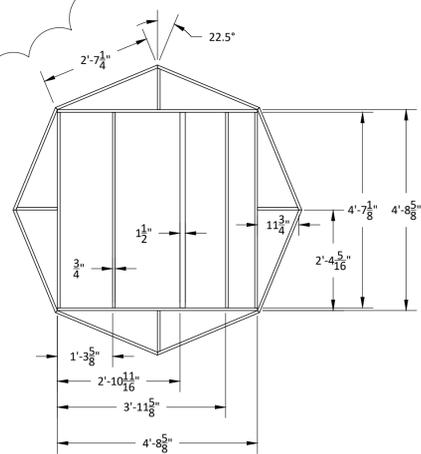


Rep 2018

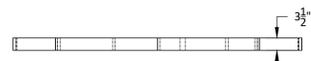
Octagon Unit- Scrim Panels		DWG #: R15
Director: Mulchay/Lamparelli	Designer: D.Conway	
Tech Director: Aaron Mayer	Drafted By: A.Mayer	
DWG Date: 6/29/2018	REV Date: _____	



1
R16 Unit Iso

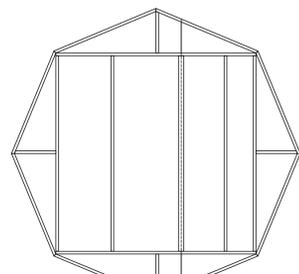


Top View



Front View

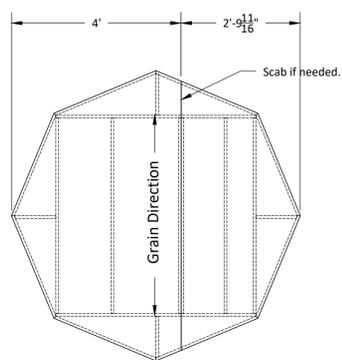
2
R16 Frame- Scale: 1/2"=1'-0"
Build 1 from 1x4.



Top View



Front View



Bottom View

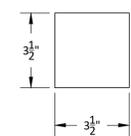
3
R16 Beadboard- Scale: 1/2"=1'-0"
Skin BOTTOM with Beadboard.
Glue and staple.



Top View



Front View

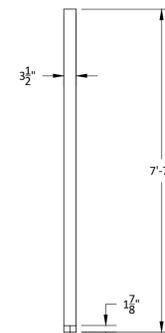


Bottom View-Scale: 3"=1'-0"

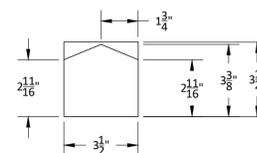
4
R16 Support Post 1- Scale: 1/2"=1'-0"
Build 2 from 4x4.



Top View

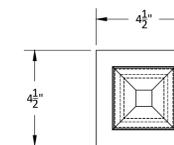


Front View

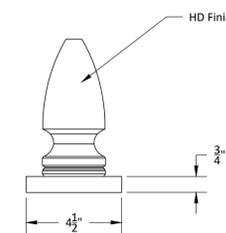


Bottom View-Scale: 3"=1'-0"

5
R16 Support Post 2- Scale: 1"=1'-0"
Build 2 from 4x4.
CUT NOTCH ON BOTTOM ONLY.



Top View



Front View

6
R16 Finials- Scale: 3"=1'-0"
Build 8 from purchased finial
and 3/4" ply plates.
Center finial on plate.

Rep 2018



Octagon Unit- Roof

Director: Mulchay/Lamparelli

Designer: D.Conway

Tech Director: Aaron Mayer

Drafted By: A.Mayer

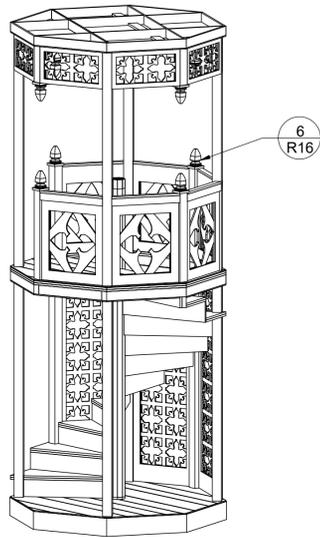
DWG Date: 7/5/2018

REV Date: 7/7/2018

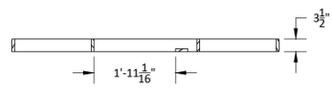
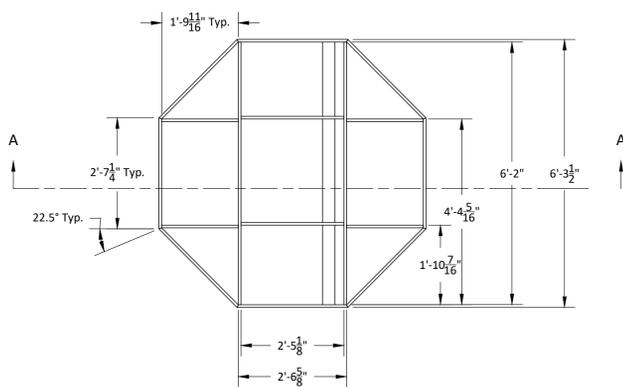
Scale: As Noted

DWG #:

R16

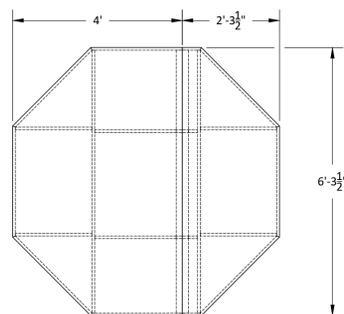
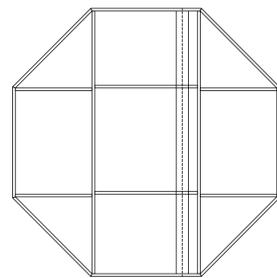


1 Unit Iso
R16



SECTION A-A
SCALE 1/2" = 1'-0"

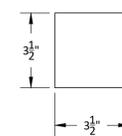
2 Frame- Scale: 1/2"=1'-0"
R16 Build 1 from 1x4.



3 Beadboard- Scale: 1/2"=1'-0"
R16 Skin BOTTOM with Beadboard.
Glue and staple.



Front View

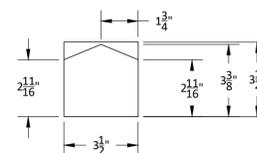


Bottom View-Scale: 3"=1'-0"

4 Support Post 1- Scale: 1/2"=1'-0"
R16 Build 2 from 4x4.

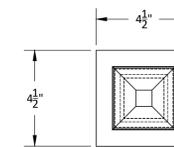


Front View

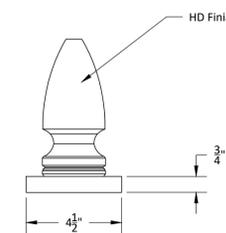


Bottom View-Scale: 3"=1'-0"

5 Support Post 2- Scale: 1"=1'-0"
R16 Build 2 from 4x4.
CUT NOTCH ON BOTTOM ONLY.



Top View



Front View

6 Finials- Scale: 3"=1'-0"
R16 Build 8 from purchased finial
and 3/4" ply plates.
Center finial on plate.



Rep 2018

Octagon Unit- Roof

Director: Mulchay/Lamparelli

Designer: D.Conway

Tech Director: Aaron Mayer

Drafted By: A.Mayer

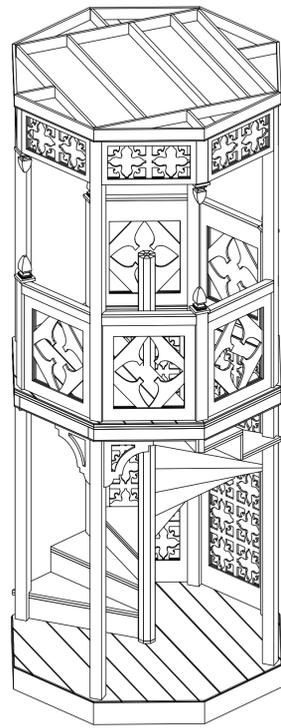
DWG Date: 7/5/2018

REV Date:

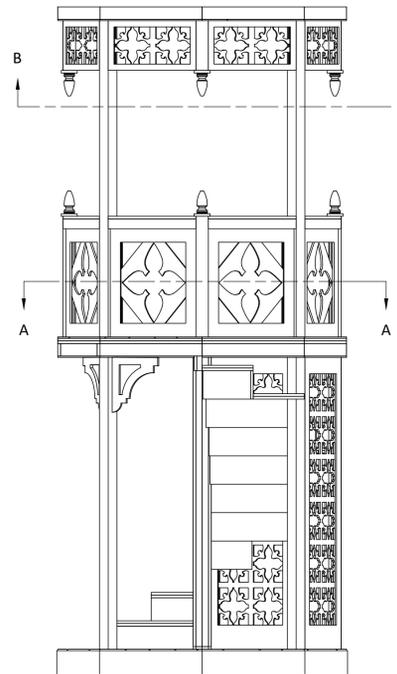
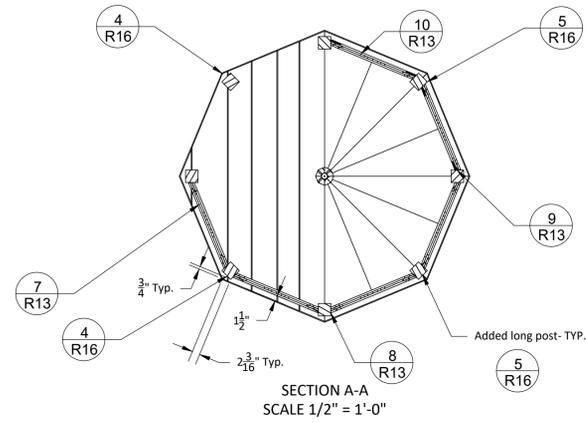
Scale: As Noted

DWG #:

R16

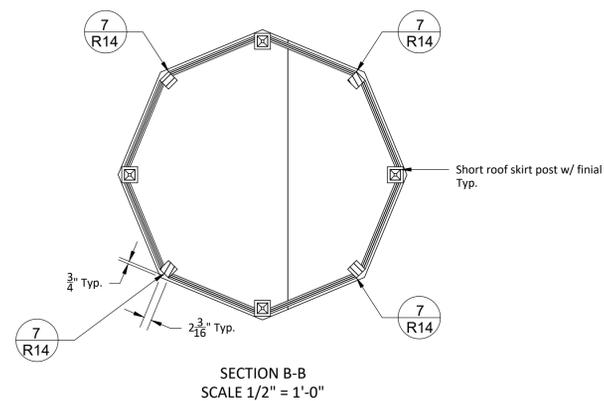


1 Unit Iso
R30



Roof Assembly

- Attach posts and roof skirt together as a unit. Glue and Screw.
- Attach Post/skirt structure to roof top. **Roof beadboard direction should match planks/landing beadboard on unit.** Glue and screw through top into post/roof skirt.
- Layout leg points on landing.
- Fly roof and secure to landing on point. Screw railings to posts.



Rep 2018

Octagon Unit- Roof Installation

Director: Mulchay/Lamparelli

Designer: D.Conway

Tech Director: Aaron Mayer

Drafted By: A.Mayer

DWG Date: 7/7/2018

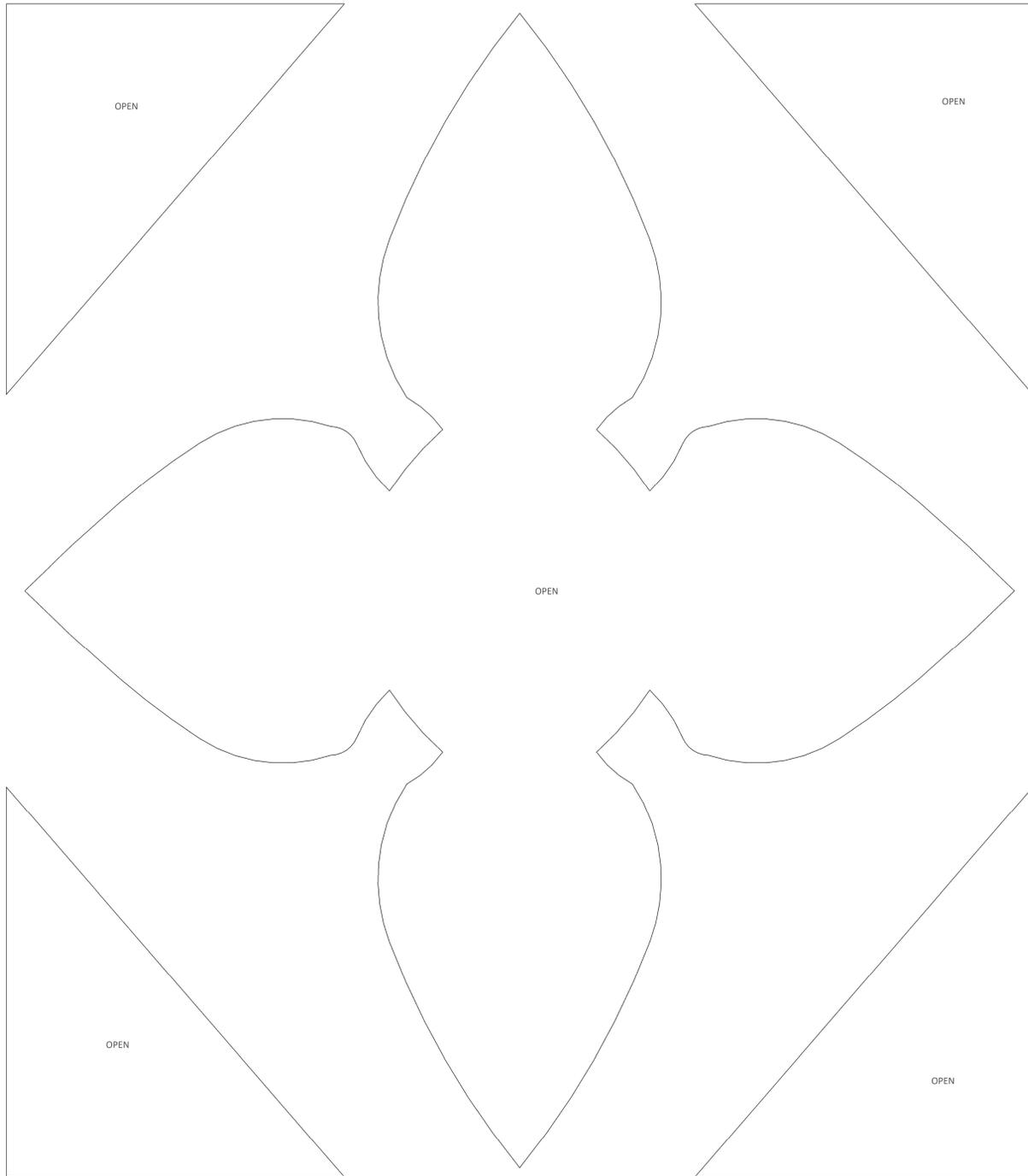
REV Date:

Scale: As Noted

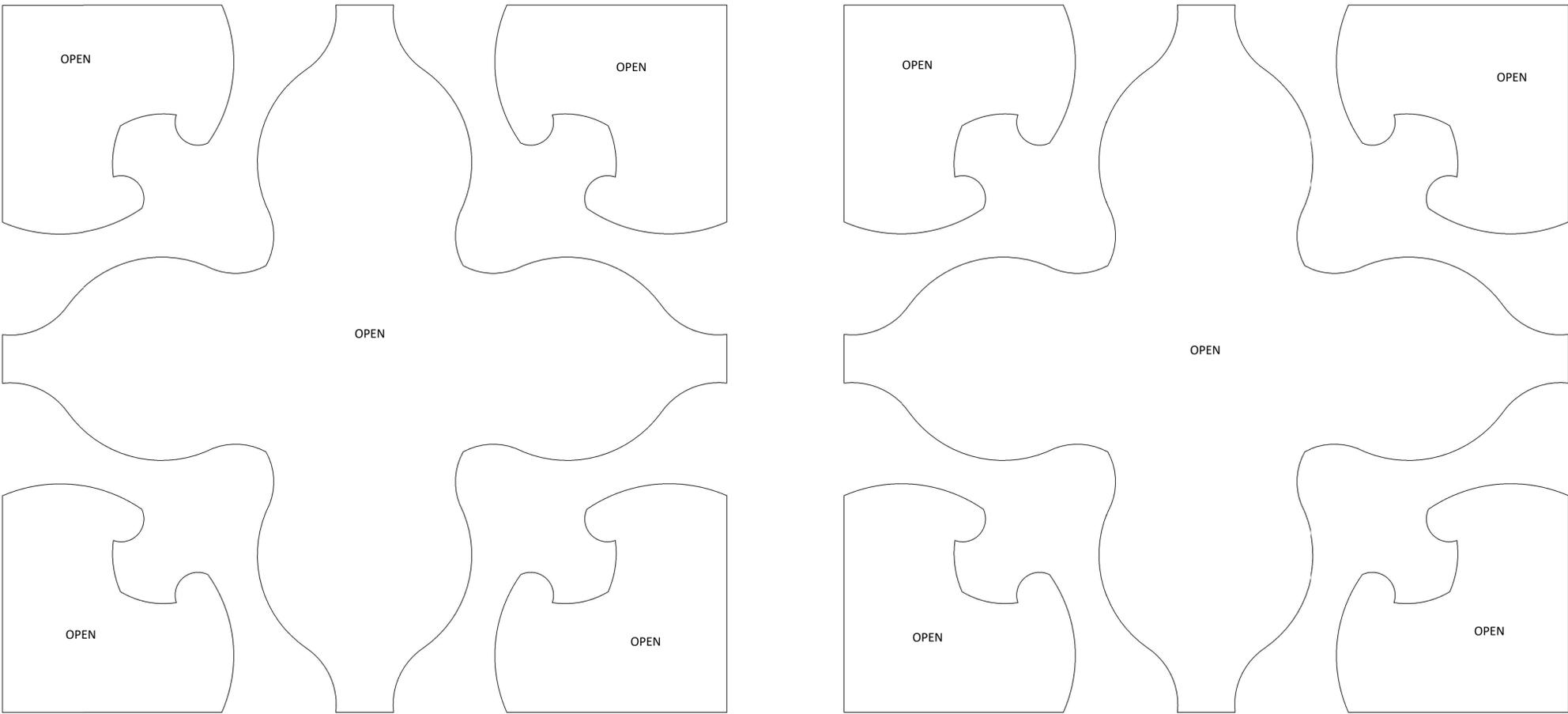
DWG #:

R30

Top



Railing TEMPLATE



Roof Skirt TEMPLATE

