

Show: Natasha, Pierre &The Great Comet of 1812

written by Dave Malloy

DIRECTOR/ CHOREOGRAPHER: CHRISTINE O'GRADY ROBERTS

Budget Pass # 2

Date: April 14, 2023

Technical Director: Chris Russo Assitant TD: Ray Reehill, Daniel Dembek Set Designer: ANDRÉ BRANDÃO DE CASTRO

Scenic Element: Box Seats

Description:

Build Construction Procedure	# Crew	# Hours	Total Hours
Path and Cut Ply Sweeps	1	4	4
Rip and Cut Ply Framing	1	2	2
Cut and Assemble 2x4	1	2	2
Rip and Cut Lauan Facings	1	2	2
Rip and Cuit 1x3 Supports	1	2	2
Assemble	2	16	32
			0
			0
		Total	44

Load-In Procedure	# Crew	# Hours	Total Hours
Spike Location of Box Seats	1	1	1
Place Box Seats	2	1	1
Screw Together Sections	2	1	1
Screw to Floor	2	1	1
			0
		Total	4

Strike Procedure	# Crew	# Hours	Total Hours
Unscrew from Floor	2	0	1
Unscrew Sections	2	0	1
Remove Box Seats	2	0	1
		Total	2

Material	Unit	Quantity	Unit Price	Total Cost
SPF 1x12x12	length	4	\$29	\$115
2x4x8 SPF	length	8	\$4	\$32
Maso 1/8"x4x8	Sheet	4	\$14	\$56
1/4" Luan	Sheet	8	\$23	\$186
CDX 4x8	Sheet	4	\$56	\$225
				\$0
		Hardware Costs	5%	\$31
			Total	\$645

Box Seats

Show: Natasha, Pierre & The Great Comet of 1812				
written by Dave Malloy				
DIRECTOR/ CHOREOGRAPHER: CHRISTINE O'GRADY ROBERTS				
Budget Pass # 2				
Date: April 14, 2023				
Technical Director: Chris Russo Assitant TD: Ray Reehill, Daniel Dembek Set Designer: ANDRÉ BRANDÃO DE CASTRO				
Scenic Element: Pit Platform				
Description:				
Build Construction Procedure		# Crew	# Hours	Total Hours
Path and Cut platform lids		1	8	8
Cut and Assemble 10 Platform Frames		2	18	36
Cut and Attatch Compression Legs		2	4	8
Rip Lauan Facings		1	2	2
Path and Cut Platform Maso		1	8	8
Test Fit		3	8	24
			Total	86
Load-In Procedure		# Crew	# Hours	Total Hours
Place Platforms		4	1	4
Bolt Platforms together		4	1	4
Attatch Maso onto Platforms		4	1	4
Attatch Facings		4	1	4
				0
			Total	16
Strike Procedure		# Crew	# Hours	Total Hours
Remove Facings		2	0	1
Unbolt Platforms		2	0	1
Remove Platforms		2	0	1
			Total	2
Material	Unit	Quantity	Unit Price	Total Cost
2x6x10	length	16	\$8	\$128
2x4x12	length	45	\$5	\$229
Maso 1/8"x4x8	Sheet	4	\$14	\$56
1/4" Luan	Sheet	6	\$23	\$140
CDX 4x8	Sheet	10	\$56	\$563
			\$5	\$0
Hardware Costs			5%	\$56
			Total	\$1,171



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-There are two Loge Wall units, a SL unit and a SR unit. These units are mirror images of each other.

-The walls are constructed using variously-sized-framing, ply, lauan, and masonite.	
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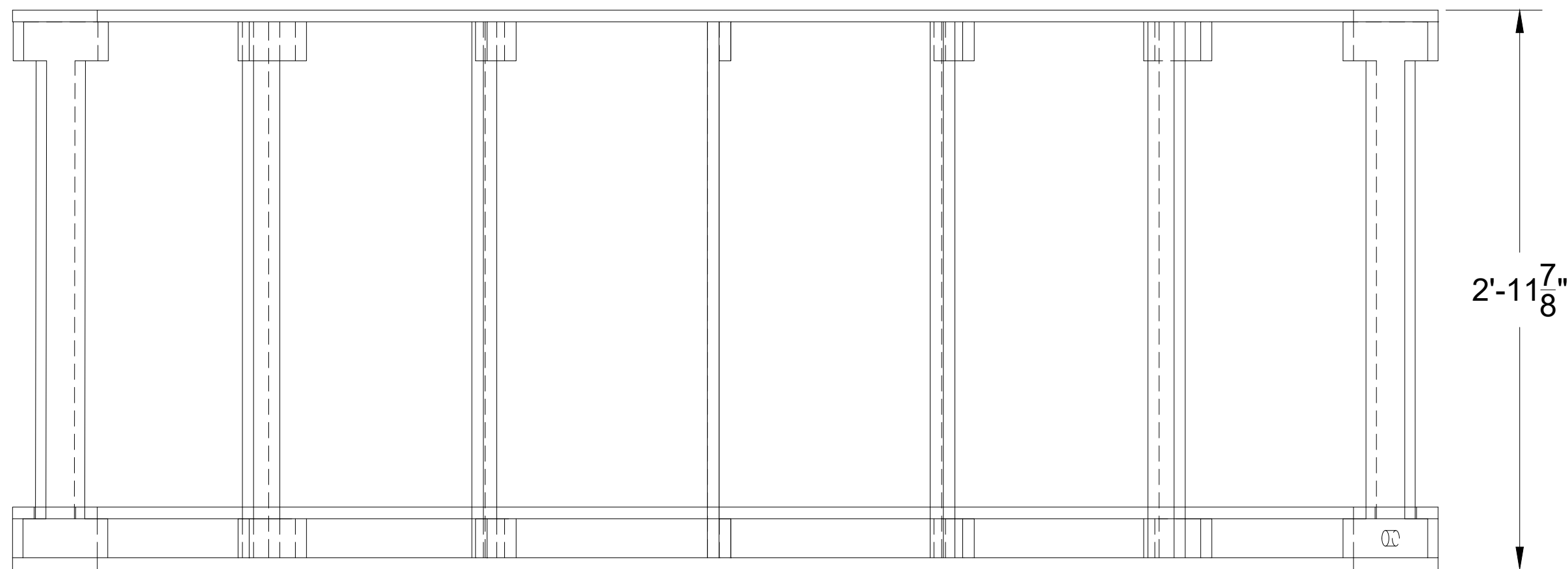
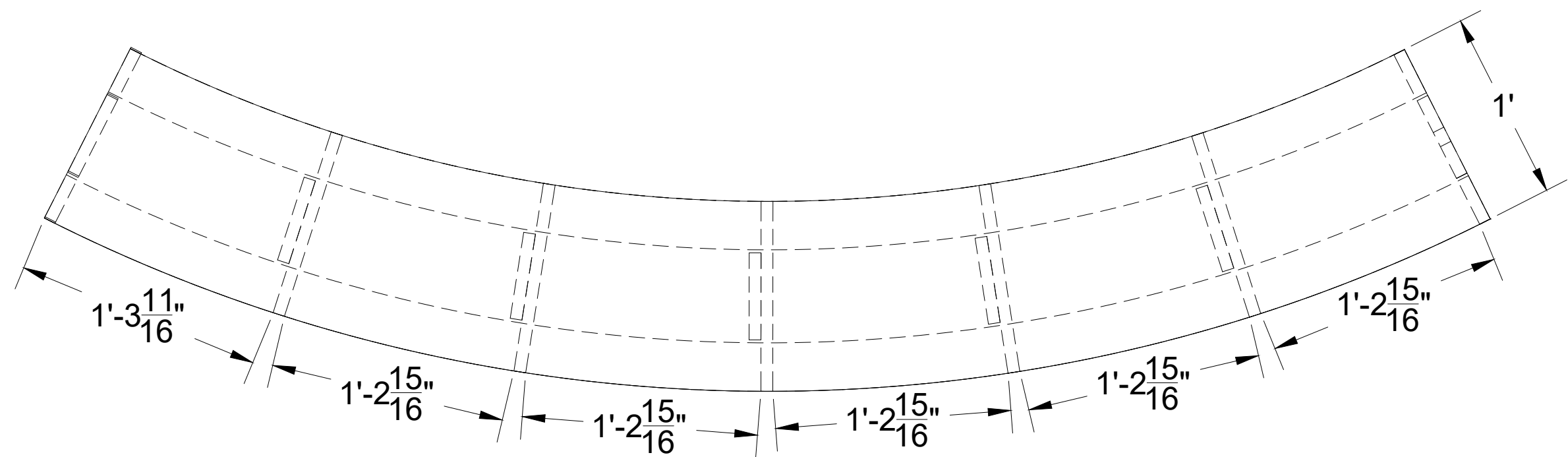
- Both segments have a speaker between their 2 upstage-most framing, hung by a custom speaker yoke.

-The DS segment has 2 holes in the base for pallet wheels to support opening and closing.

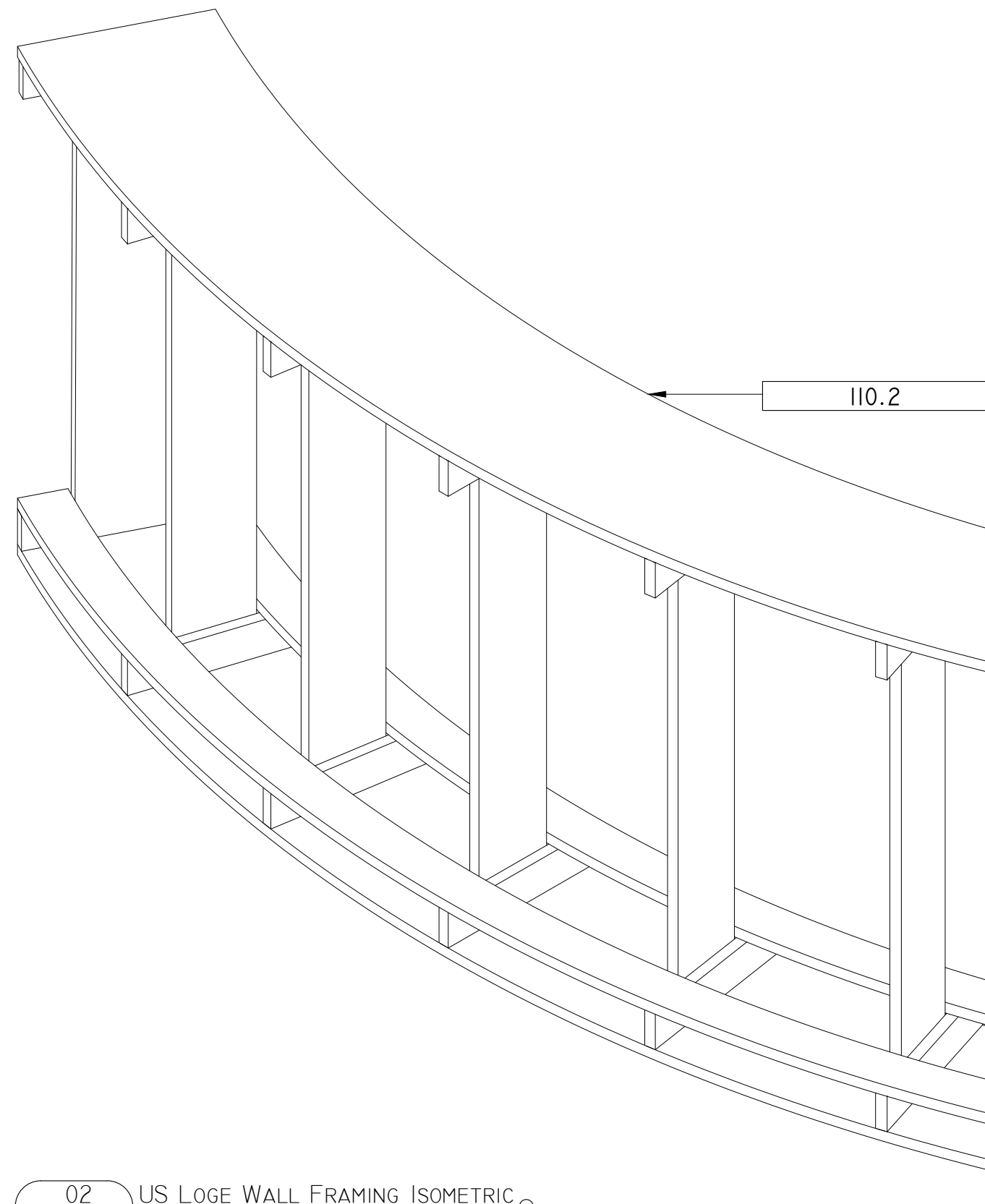
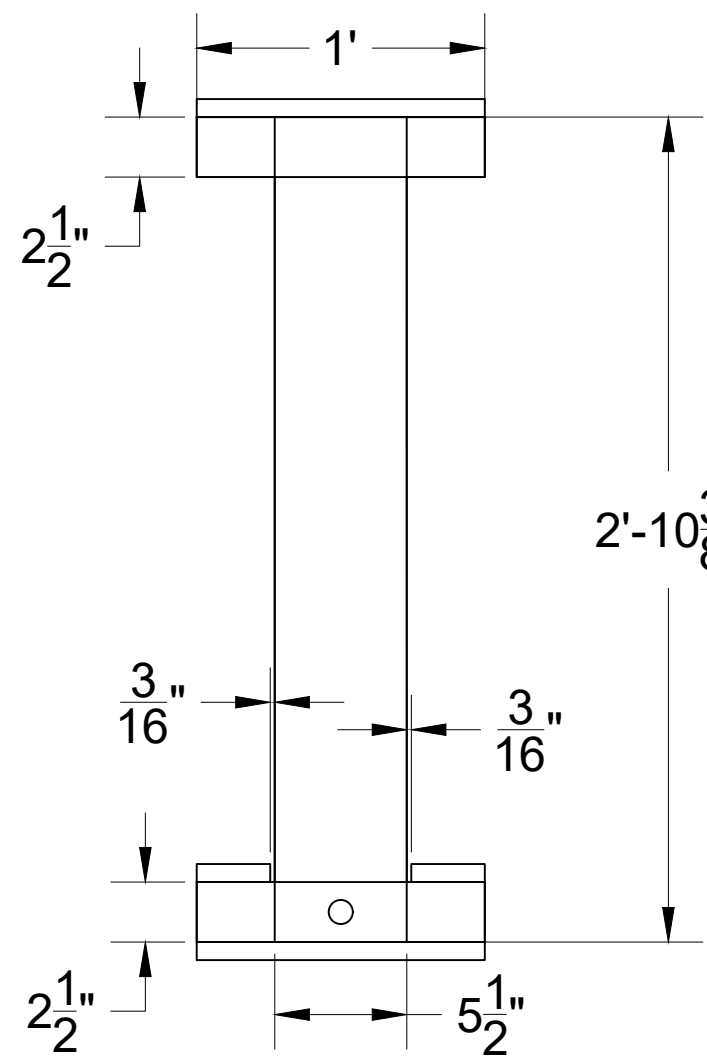
PENN STATE CENTRE STAGE
PLAYHOUSE
GREAT COMET OF 1812
LOGE WALLS

DIRECTOR:	TECH DIRECTOR:
O'GRADY	CHRIS RUSSO
DESIGNED BY:	DRAWN BY:
ANDRE BRANDAO	DANIEL DEMBEK
SCALE:	PLATE #:
1:5 (CUSTOM)	110
DATE:	
7/7/23	
REVDATE:	
9/5/2023	
PLOT DATE:	

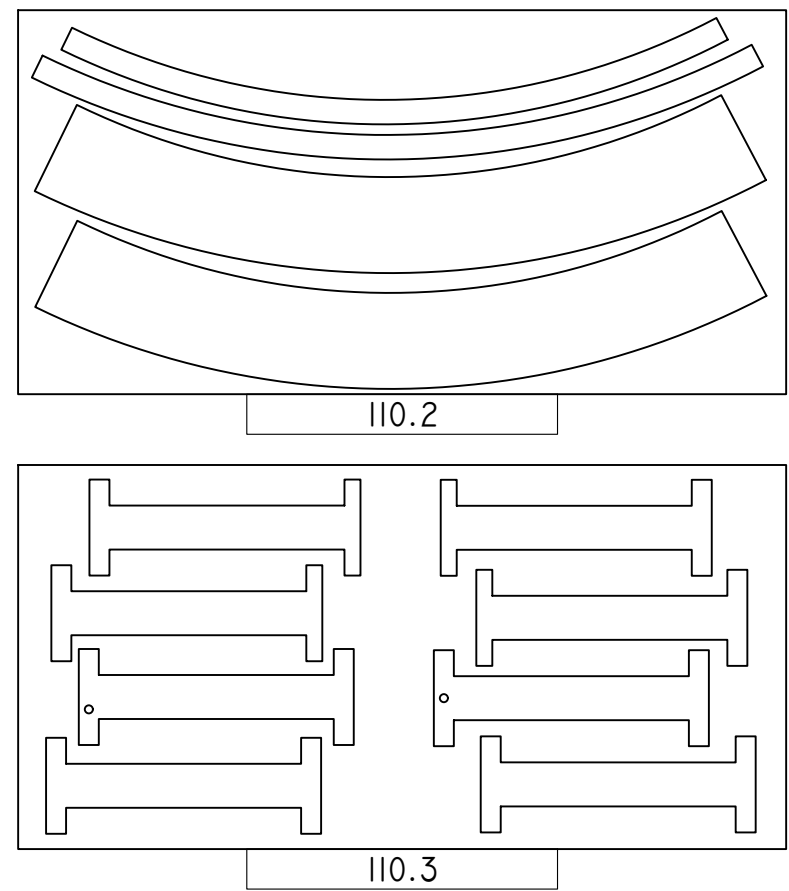




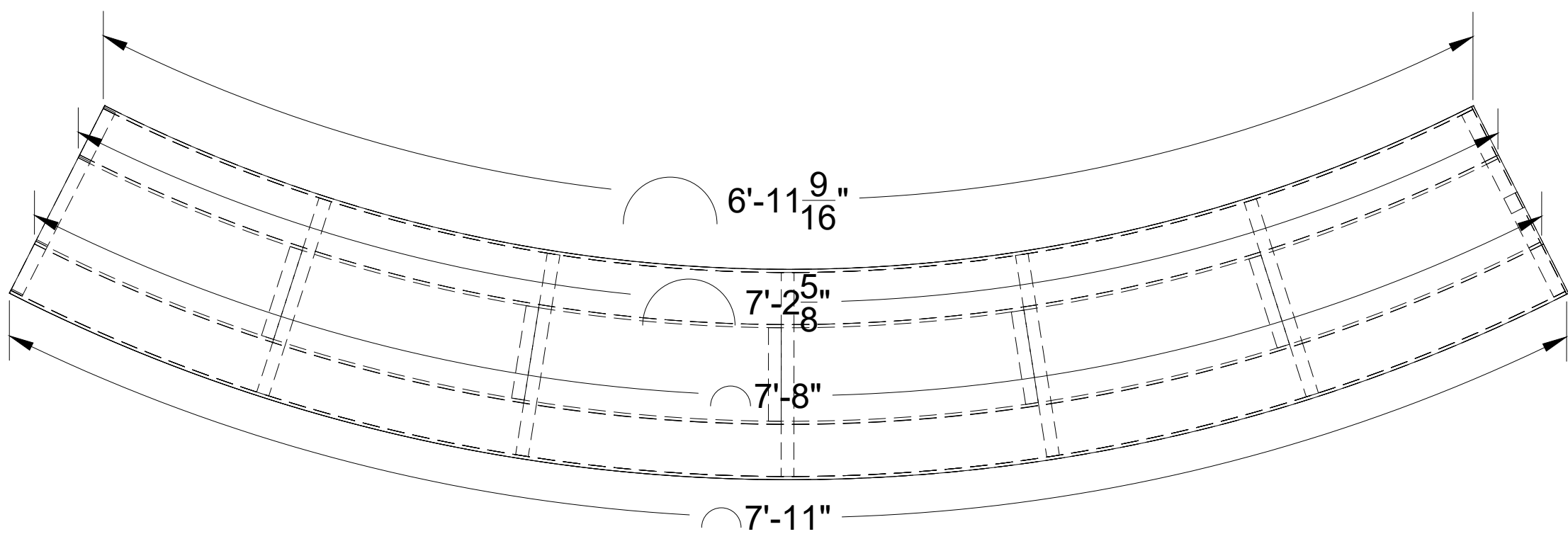
01 US LOGE WALL FRAMING
SCALE: 1/8" = 1'-0"
1X3 AND 1X6 FRAMING
3/4" PLY SWEEPS



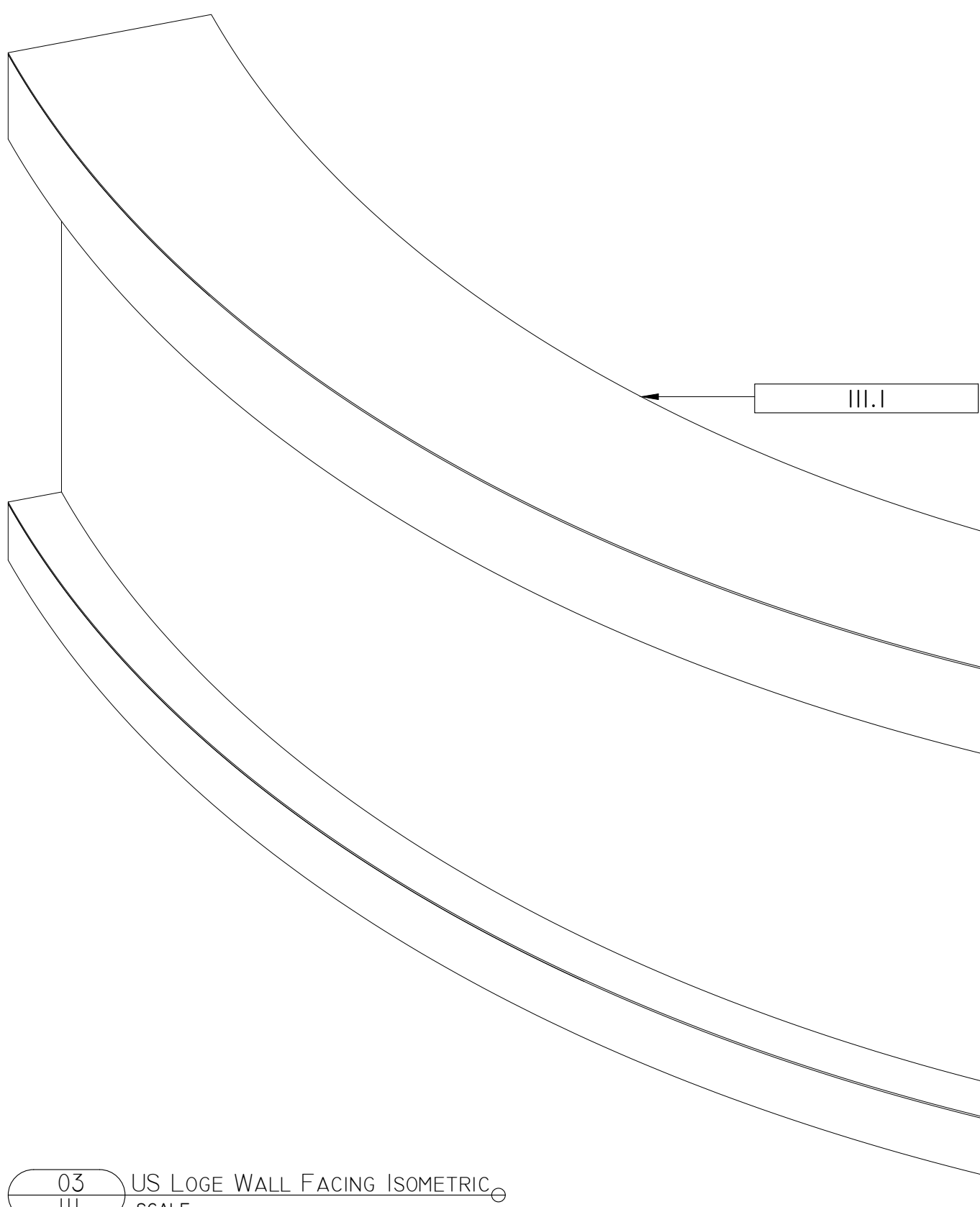
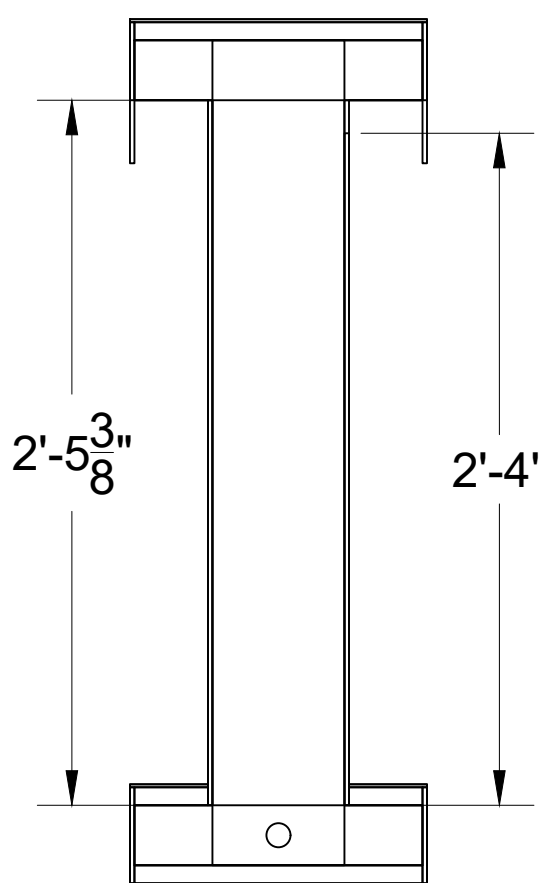
02 US LOGE WALL FRAMING ISOMETRIC
SCALE: 1/8" = 1'-0"



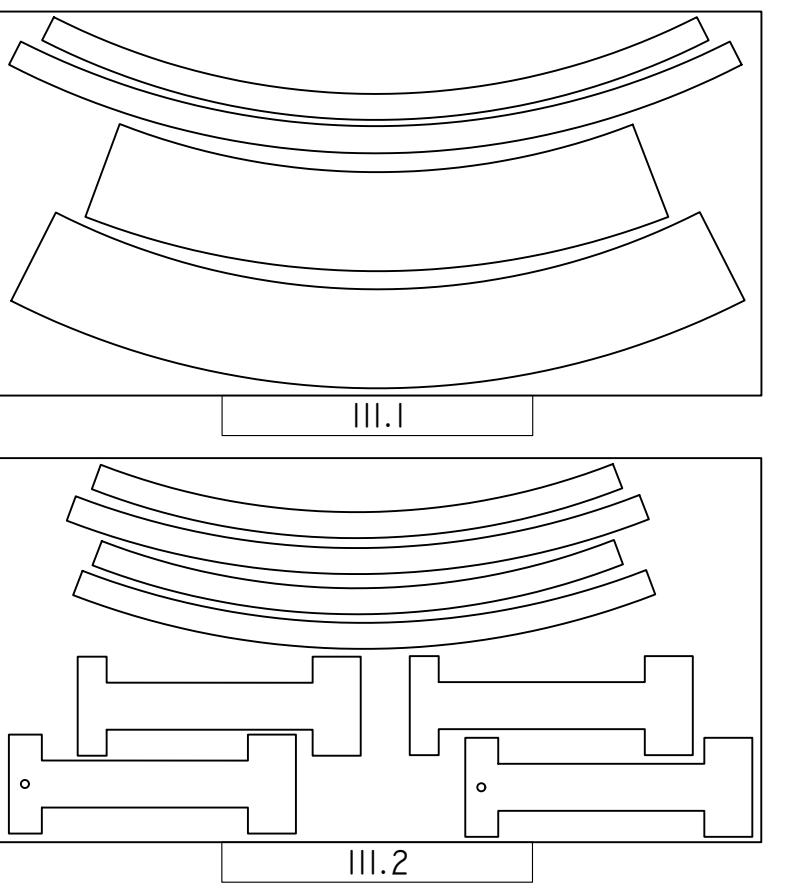
Framing Views



03 US LOGE WALL FACING
SCALE: 1/8" = 1'-0"
MASONITE ON ALL FLAT SURFACES
LAUAN ON ALL VERTICAL SURFACES
READ LAST BULLET IN NOTES



03 US LOGE WALL FACING ISOMETRIC
SCALE: 1/8" = 1'-0"
TOP MASONITE CAPS SIDE MASONITE/LAUAN
ALL LAUAN GOES TO PLYWOOD CAP



Facing Views



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NOTES:

-The US segment is the larger and static segment of the unit.

-The SL/SR versions of this segment are mirror images of each other. The sweeps are very similar, NOT identical.

This segment is constructed with:

- 1x3 framing
- 1x6 framing
- 3/4" ply
- 3/16" lauan
- 1/8" masonite

-Arclengths indicate the length of lauan facings

-This segment has a hole in the US profile for cabling to enter the wall for speakers/LED's

-Shown is the SR unit, reverse and repeat for SL unit.

-The 2'-4" lauan on the ONSTAGE FACE needs to be removable. DO NOT STAPLE. Use minimal screws to attach this face.

PENN STATE CENTRE STAGE
PLAYHOUSE

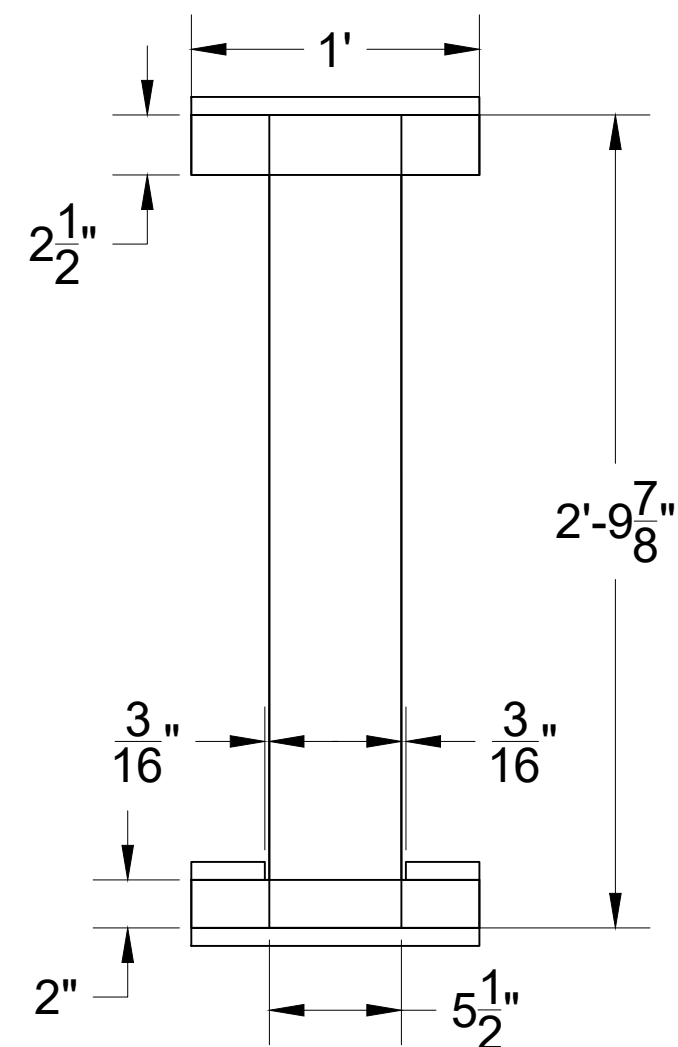
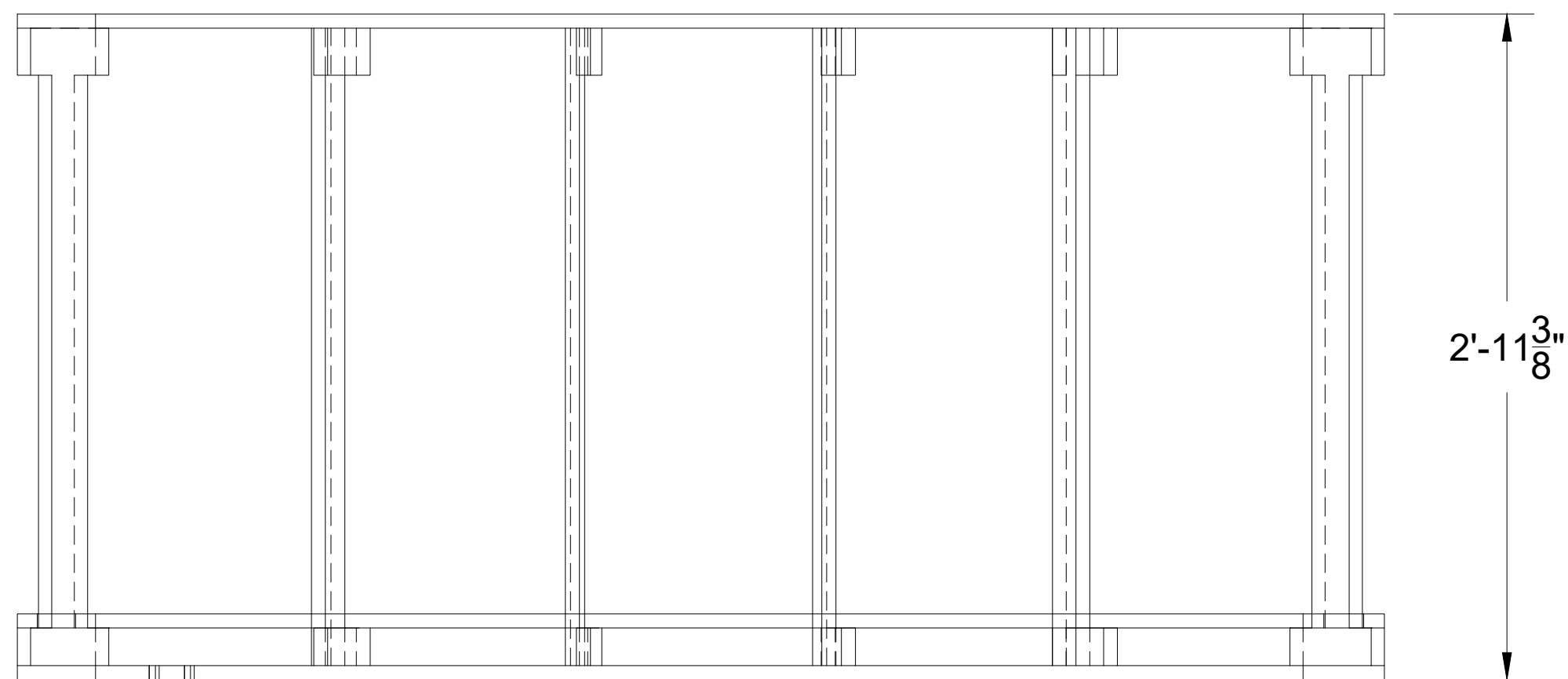
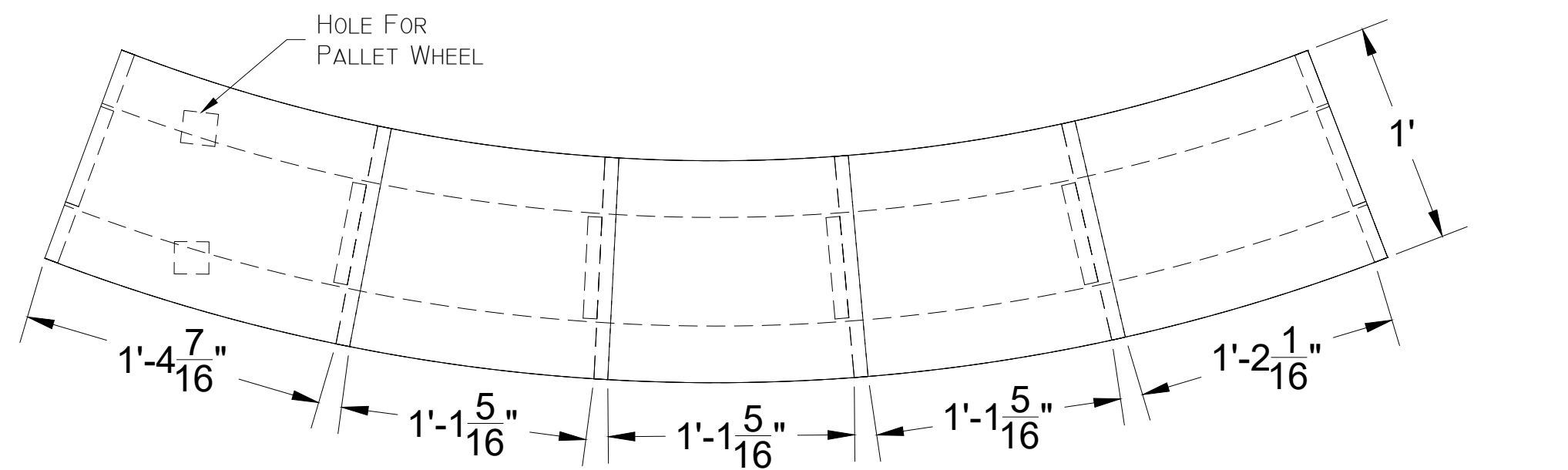
GREAT COMET OF 1812

US LOGE WALLS

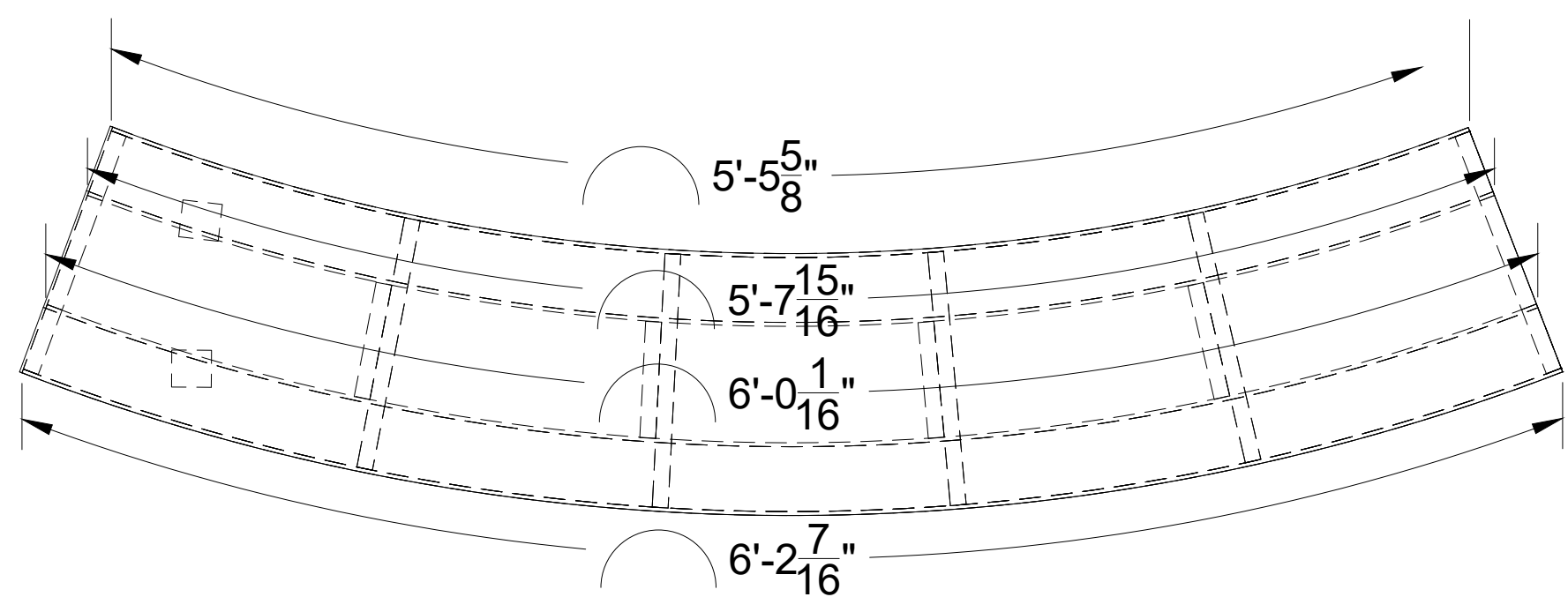
DIRECTOR	O'GRADY	TEXT DIRECTOR	CHRIS RUSSO
DRAWN BY	ANDRE BRANDAO	PLATE #	DANIEL DEMBEK
SCALE	1/8" = 1'-0"	DATE	7/7/23
REVISED	9/5/2023	POST DATE	

III

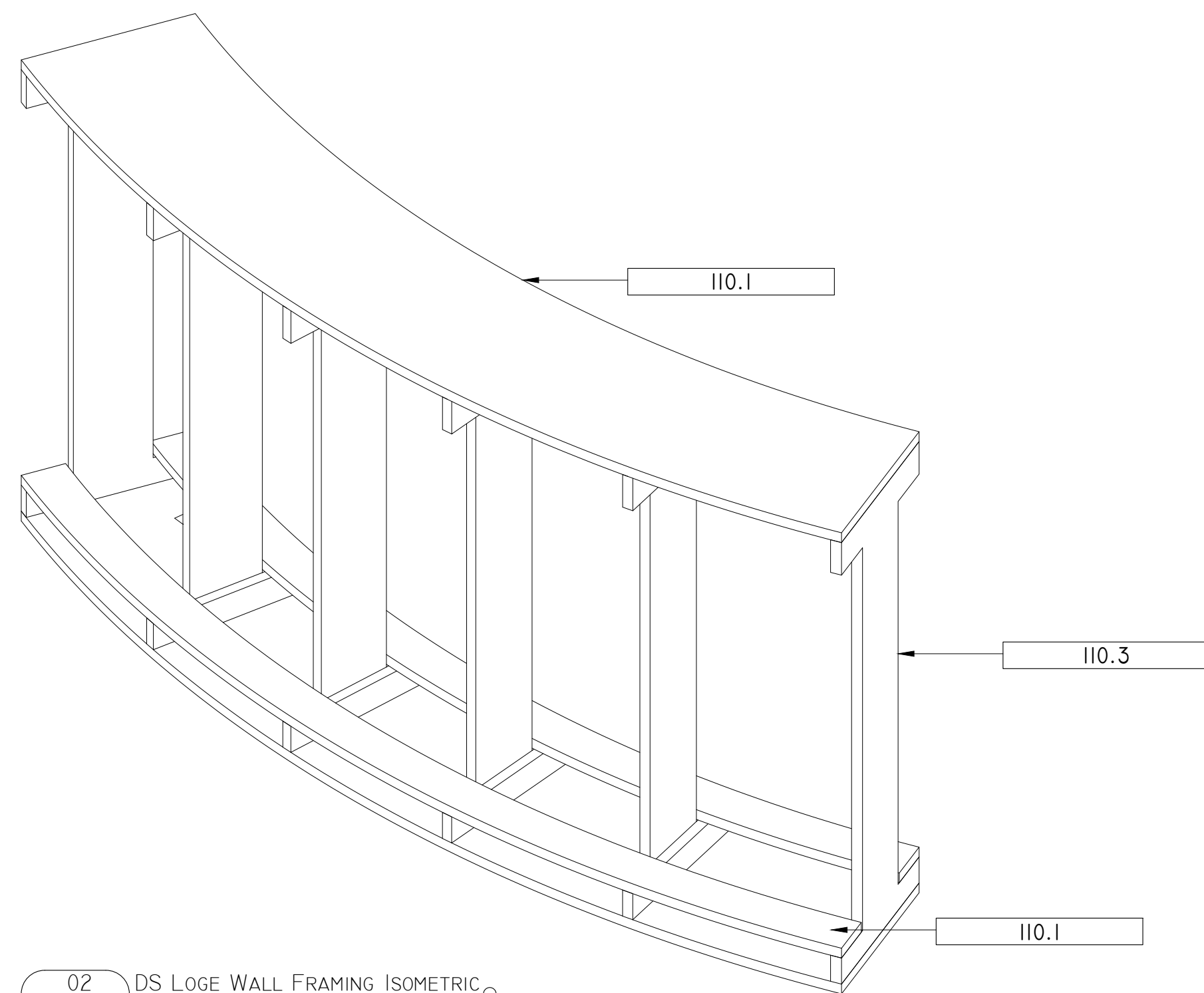
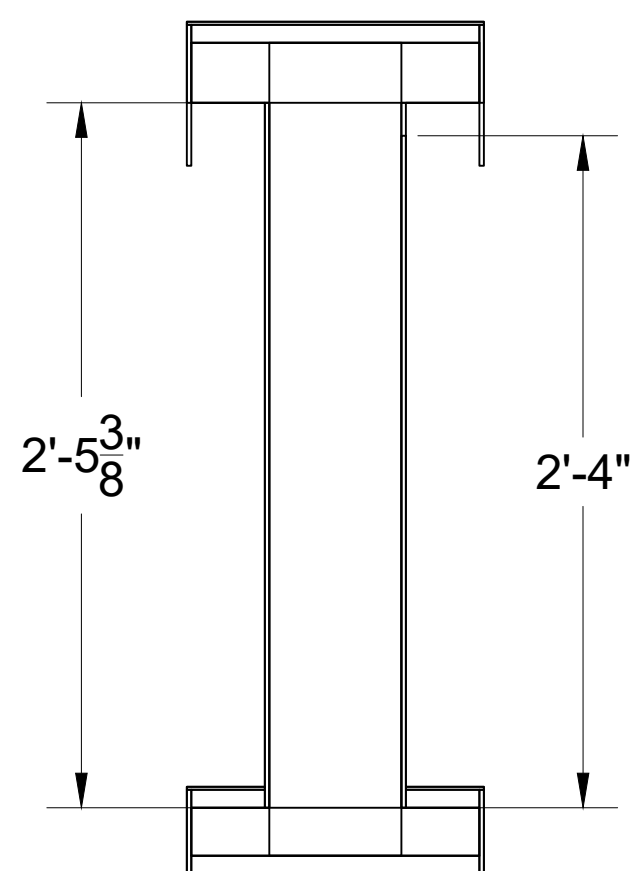
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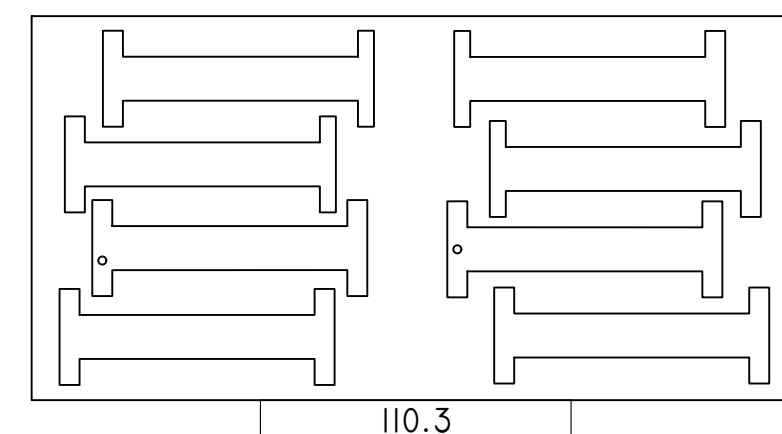
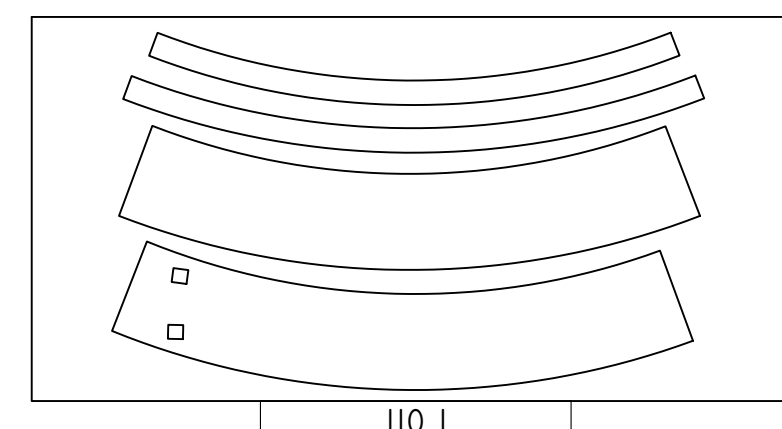
01 DS LOGE WALL FRAMING
SCALE: VARIABLE FRAMING, READ NOTES



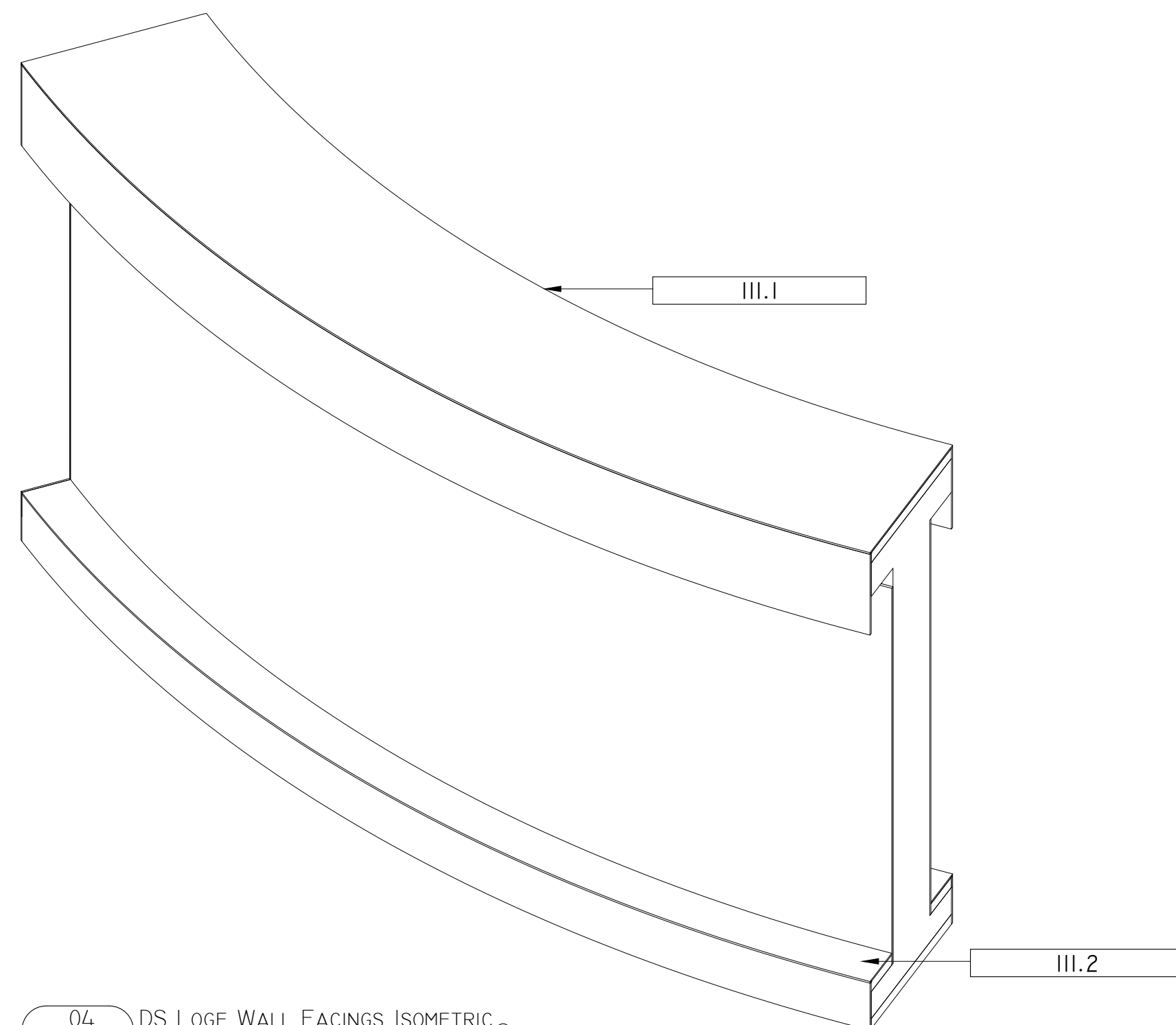
03 DS LOGE WALL FACINGS
SCALE: MASONITE ON ALL FLAT FACINGS
LAUAN ON ALL VERTICAL FACINGS
READ LAST BULLET IN NOTES



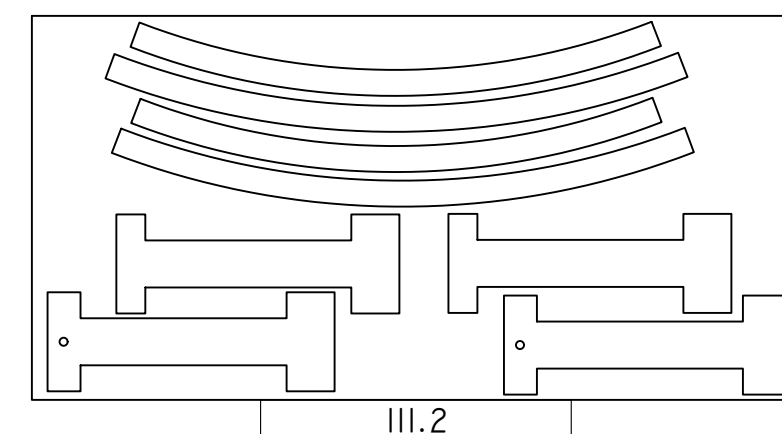
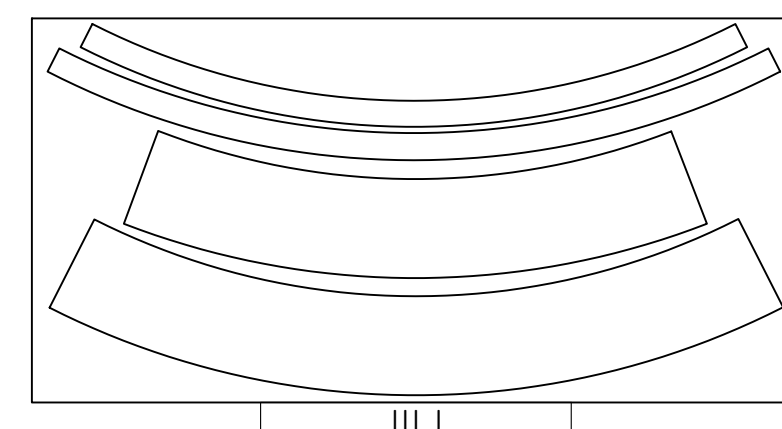
02 DS LOGE WALL FRAMING ISOMETRIC
SCALE:



Framing Views



04 DS LOGE WALL FACINGS ISOMETRIC
SCALE: TOP MASONITE CAPS SIDE MASONITE/LAUAN
SIDE LAUAN GOES TO PLYWOOD CAPS



Facing Views



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NOTES:

-The DS Loge Wall Units are MIRROR IMAGES of eachother. The sweeps are similar, but not identical.

Framed with:

- 1"x3" on the top cross-pieces
- .75"x2" (TRUE) on bottom cross-pieces
- 1"x6" for verticals
- .75" Ply profiles on end

-Arclength indicates length of lauan facings

-Holes in base sweep are for pallet wheels, which will require additional mortise.

-Shown is the SR unit, reverse and repeat for SL unit.

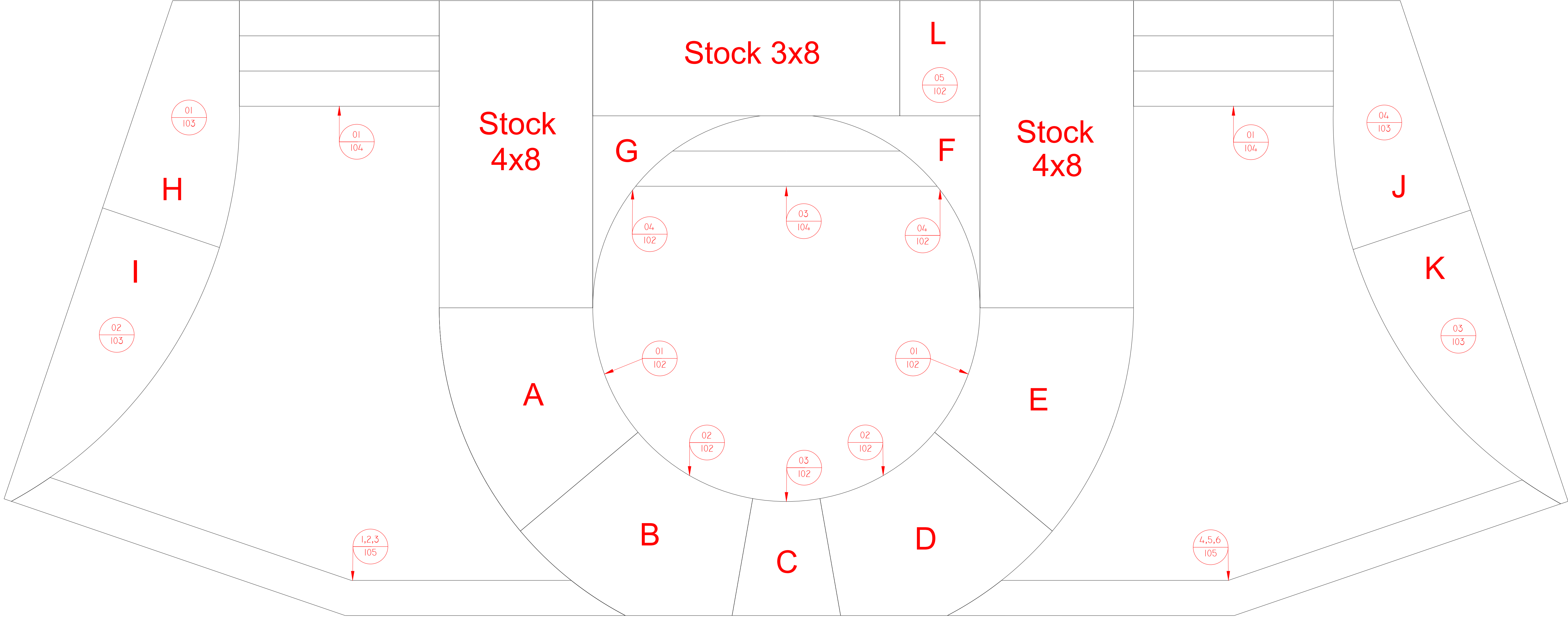
-The 2'-4" lauan on the ONSTAGE FACE needs to be removable. DO NOT STAPLE. Use minimal screws to attach this face.

PENN STATE CENTRE STAGE
PLAYHOUSE

GREAT COMET OF 1812

DS LOGE WALLS

DIRECTOR	O'GRADY	TEXT DIRECTOR	CHRIS RUSSO
DRAWN BY	ANDRE BRANDAO	DATE	7/7/23
SCALE	1-1/2"=1'-0"	PLATE #	112
DATE	7/7/23	REVISION	9/5/2023
PLT DATE			



01
100
PIT PLATFORM LAYOUT
SCALE:



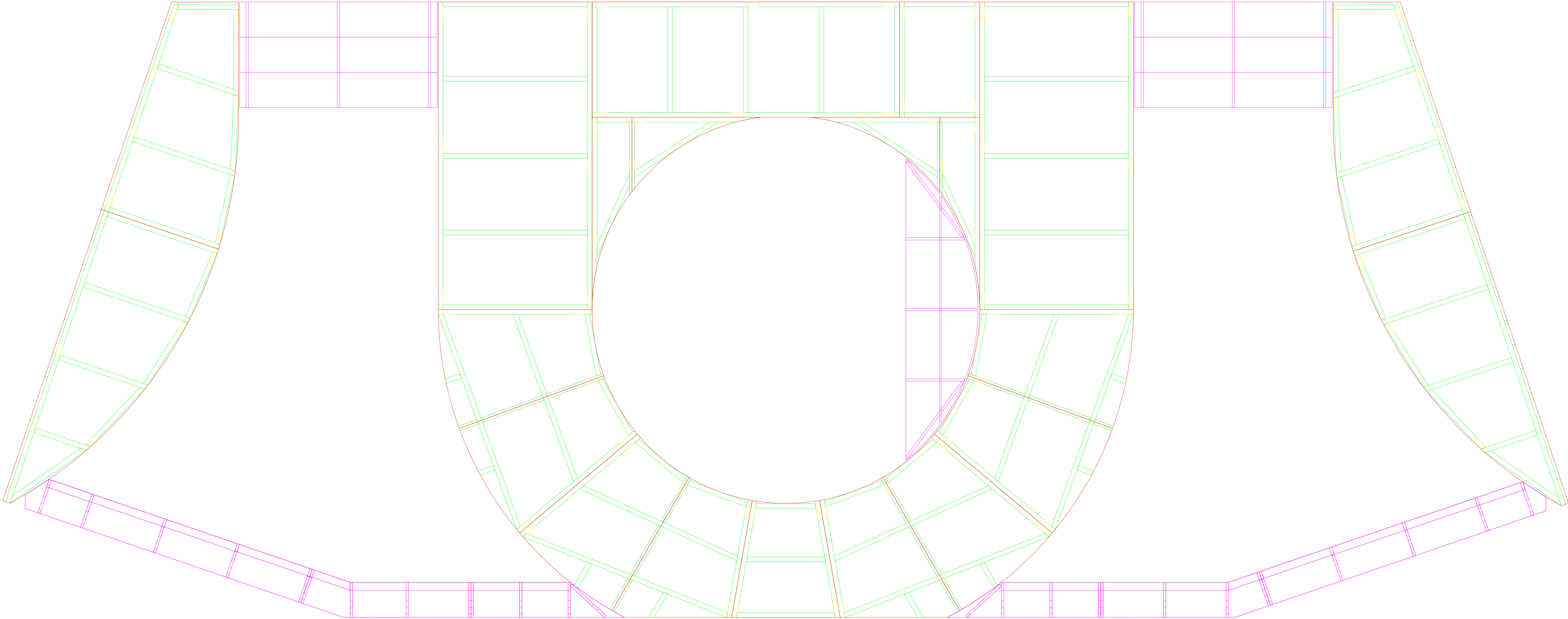
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NOTES:

- The Pit Platform unit combines stock platforms with 2x4 framed custom platforms, and 2x6 framed custom platforms.
- All platforms in the 'Donut' are 2x4 custom and stock platforms.
- The SL/SR platforms are 2x6 custom platforms to support the Genie.
- The outsides of all platforms are faced with $\frac{3}{16}$ " lauan, including the inside of the 'Donut'.
- All stairs are $\frac{3}{4}$ " Ply CNC constructions with $\frac{1}{2}$ " Ply front facings and $\frac{1}{8}$ " Maso top facings

PENN STATE CENTRE STAGE
PLAYHOUSE
GREAT COMET OF 1812
PIT PLATFORM LAYOUT

DESIGNED BY O'GRADY	DESIGNED BY CHRIS RUSSO
DRAWN BY ANDRE BRANDAO	DRAWN BY DANIEL DEMBEK
SCALE 3/4"=1'-0"	SCALE 1/4"=1'-0"
DATE 7/7/23	100
REVISION 8/28/2023	
PLOT DATE	



01 PIT PLATFORM LAYOUT WITH FRAMING AND LEGS
101 SCALE:



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- NOTES:
- The Pit Platform unit combines stock platforms with 2x4 framed custom platforms, and 2x6 framed custom platforms.
 - All platforms in the 'Donut' are 2x4 custom and stock platforms.
 - The SL/SR platforms are 2x6 custom platforms to support the Genie.
 - The outsides of all platforms are faced with $\frac{3}{16}$ " lauan, including the inside of the 'Donut'.
 - All stairs are $\frac{3}{4}$ " Ply CNC constructions with $\frac{1}{2}$ " Ply front facings and $\frac{1}{8}$ " Maso top facings

PENN STATE CENTRE STAGE
PLAYHOUSE
GREAT COMET OF 1812
FRAMING AND LEG LAYOUT

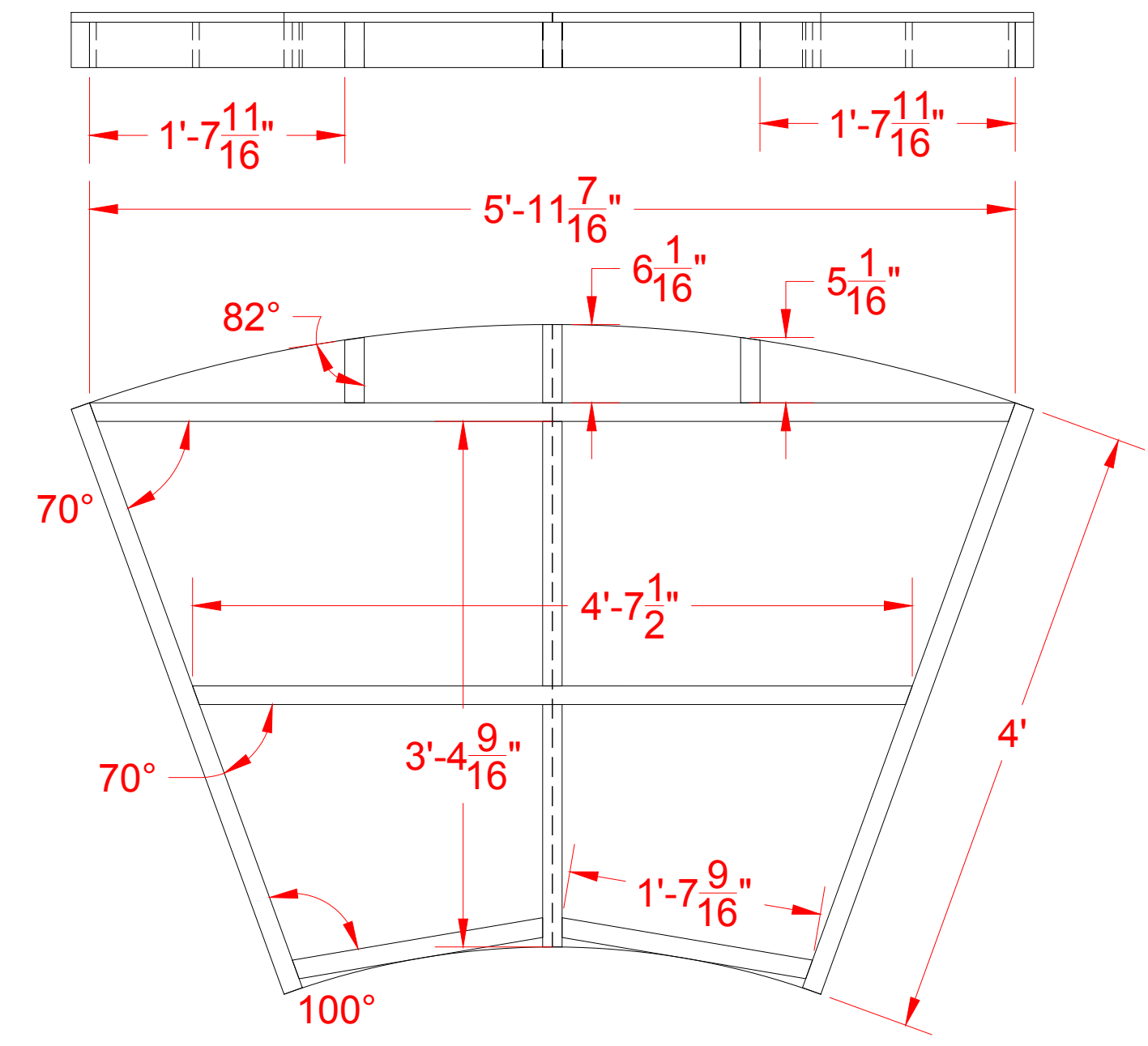
DESIGNED BY O'GRADY	DESIGNED BY CHRIS RUSSO
DRAWN BY ANDRE BRANDAO	DRAWN BY DANIEL DEMBEK
SCALE $\frac{3}{4}$ "=1'-0"	SCALE AS SHOWN
DATE 7/7/23	
REVISION 8/28/2023	
PLOT DATE	

101

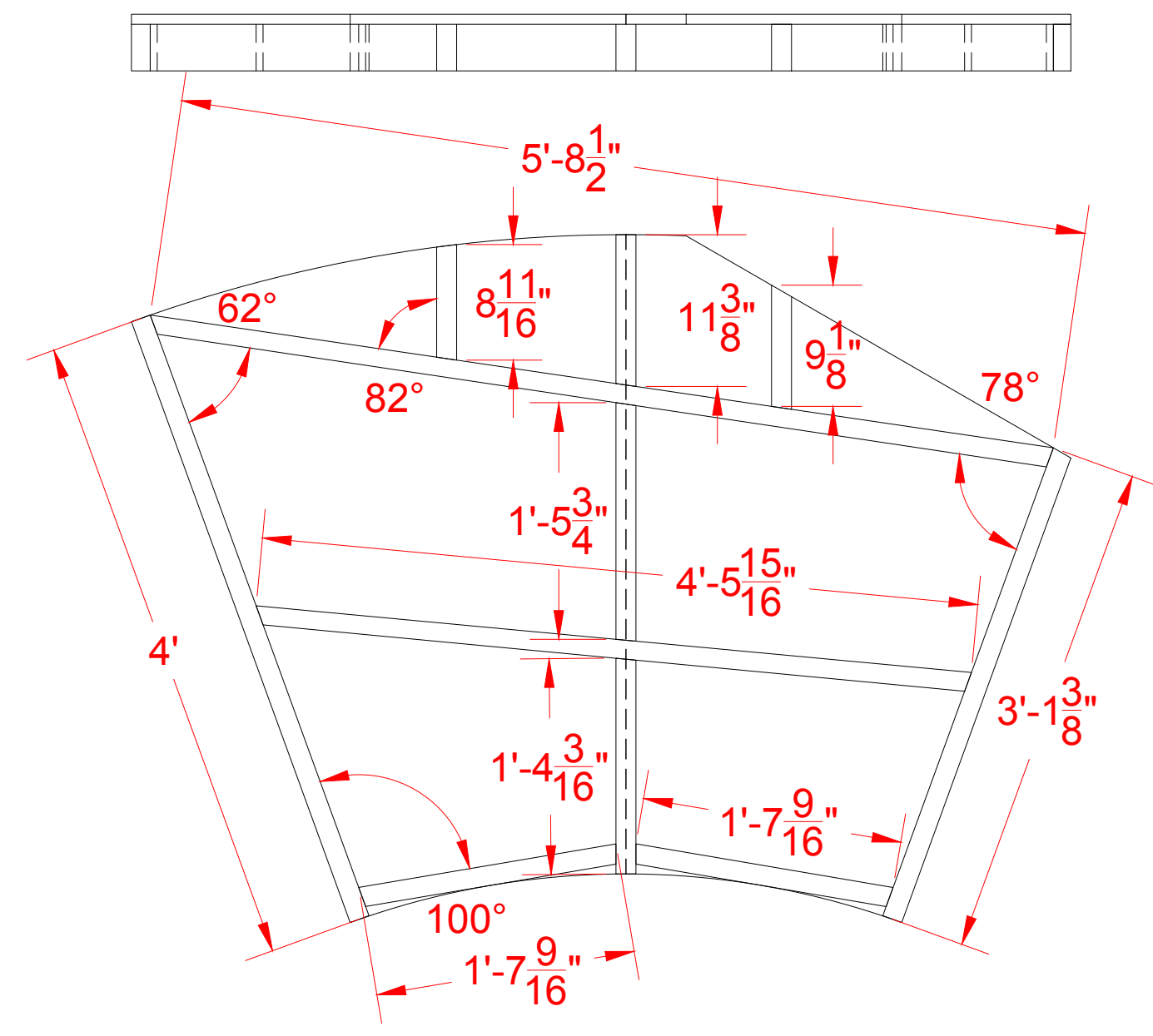
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NOTES:

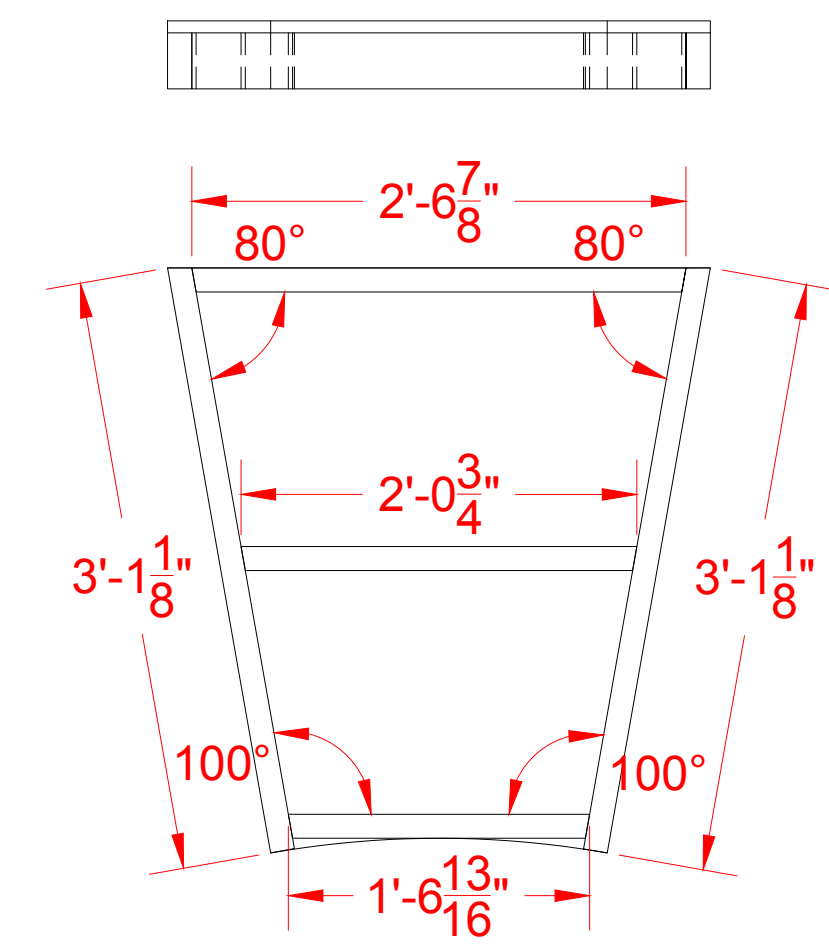
- All platforms on this sheet are 2x4 custom constructions with a $\frac{3}{4}$ " Ply Lid
- Platforms A and E, are identical.
- Platforms B and D are mirror images of each other.
- Platforms F and G are mirror images of each other.
- Platform L does not have a CNC file
- Hidden lines in front view indicate where two CNC cuts seam together.
- All views are shown from bottom



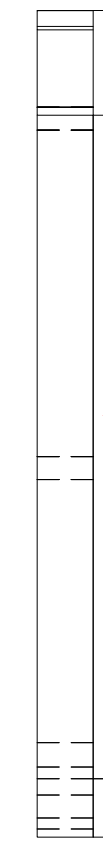
01 PLATFORM A & E
102 SCALE:
BUILD 2X
DIMENSIONS ARE EQUAL MIRRORED ALONG MIDLINE
6X LEGS



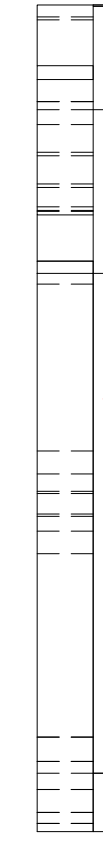
02 PLATFORM B & D
102 SCALE:
BUILD 2X, REVERSE AND REPEAT
6X LEGS



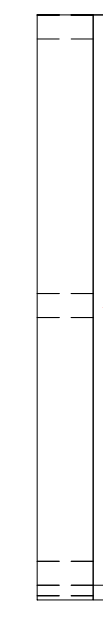
03 PLATFORM C
102 SCALE:
BUILD 2X, REVERSE AND REPEAT
6X LEGS



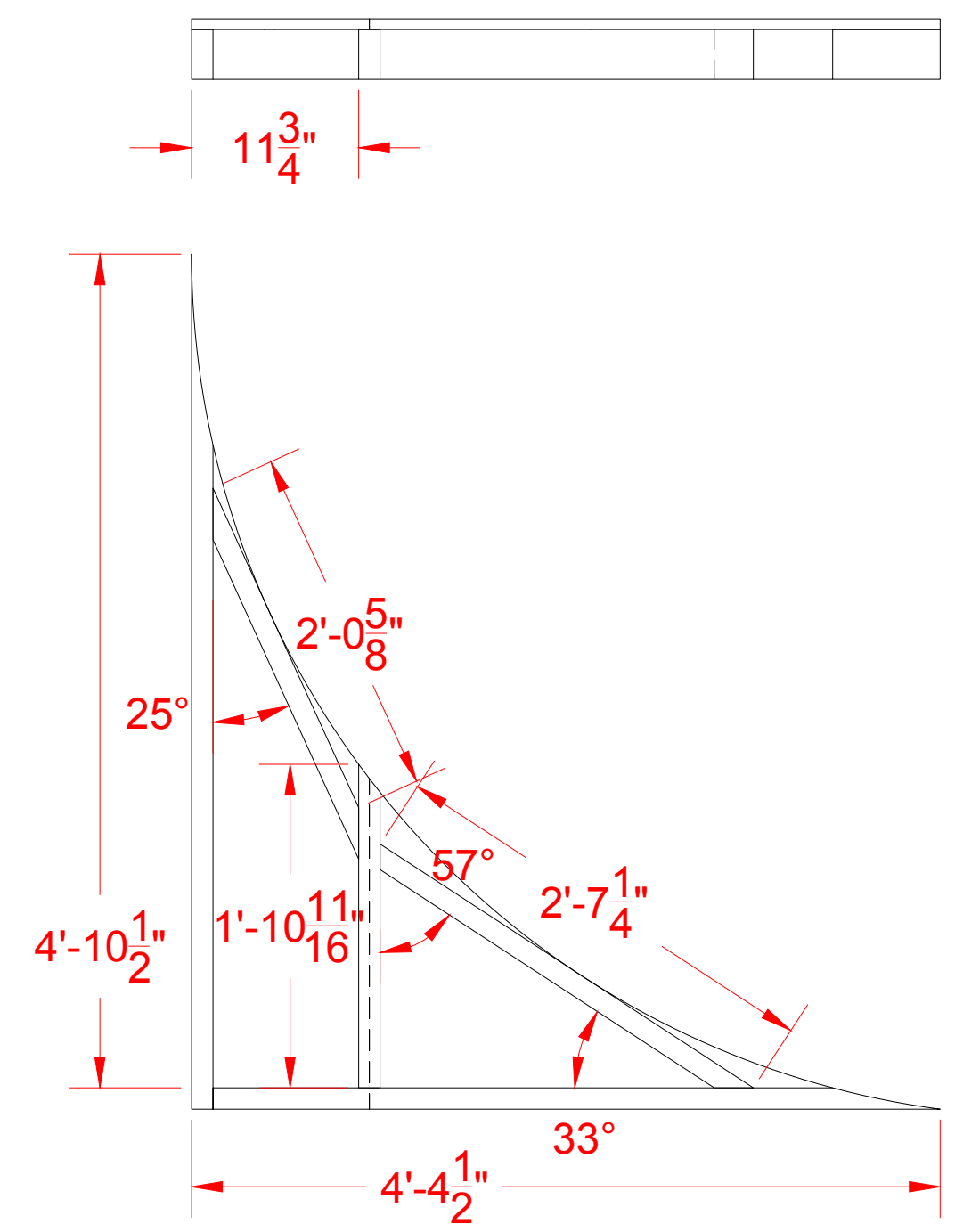
102.01



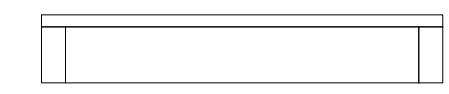
102.02



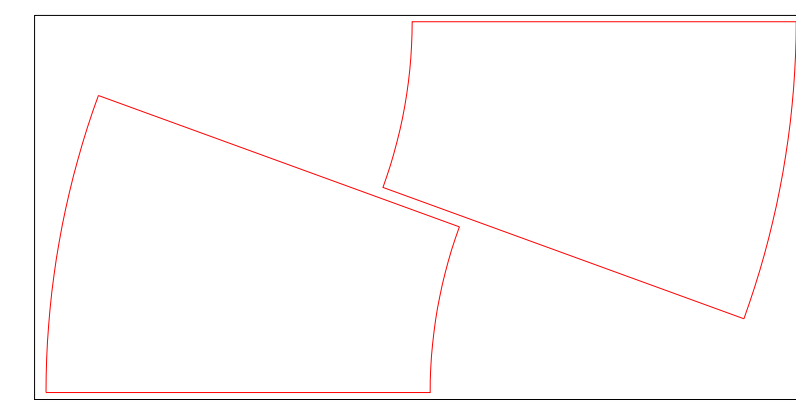
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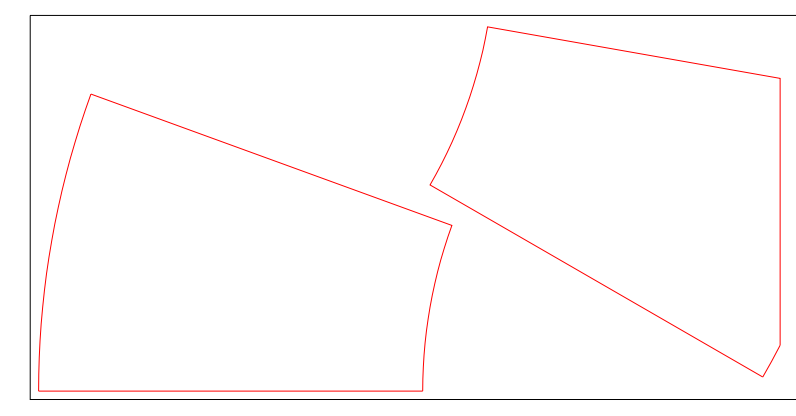
04 PLATFORM F & G
102 SCALE:
BUILD 2X, REVERSE AND REPEAT
6X LEGS



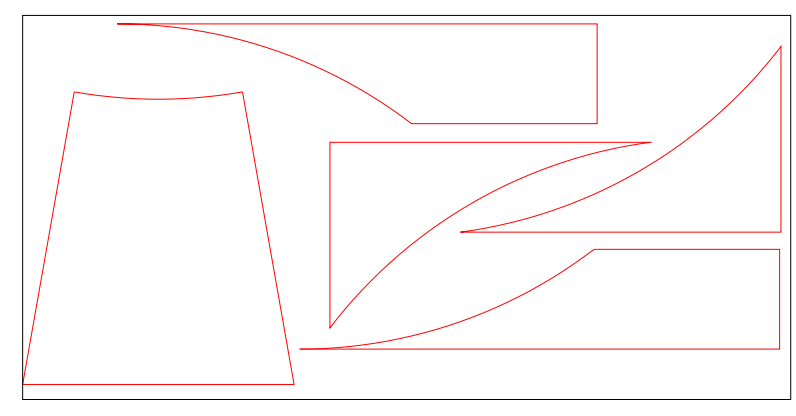
05 PLATFORM L
102 SCALE:
4X LEGS
PLY CUT ON TABLE SAW



102.01



102.02



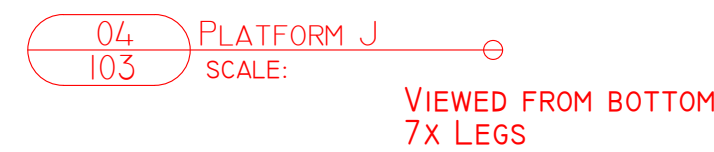
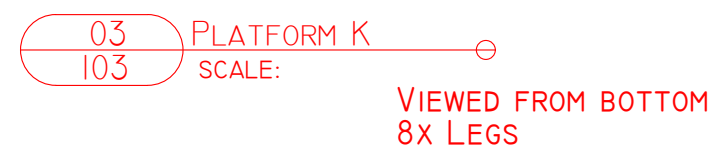
102.03



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-All platforms on this sheet are 2x6 custom constructions with a $\frac{3}{4}$ " Ply Lid

- All views are shown from bottom

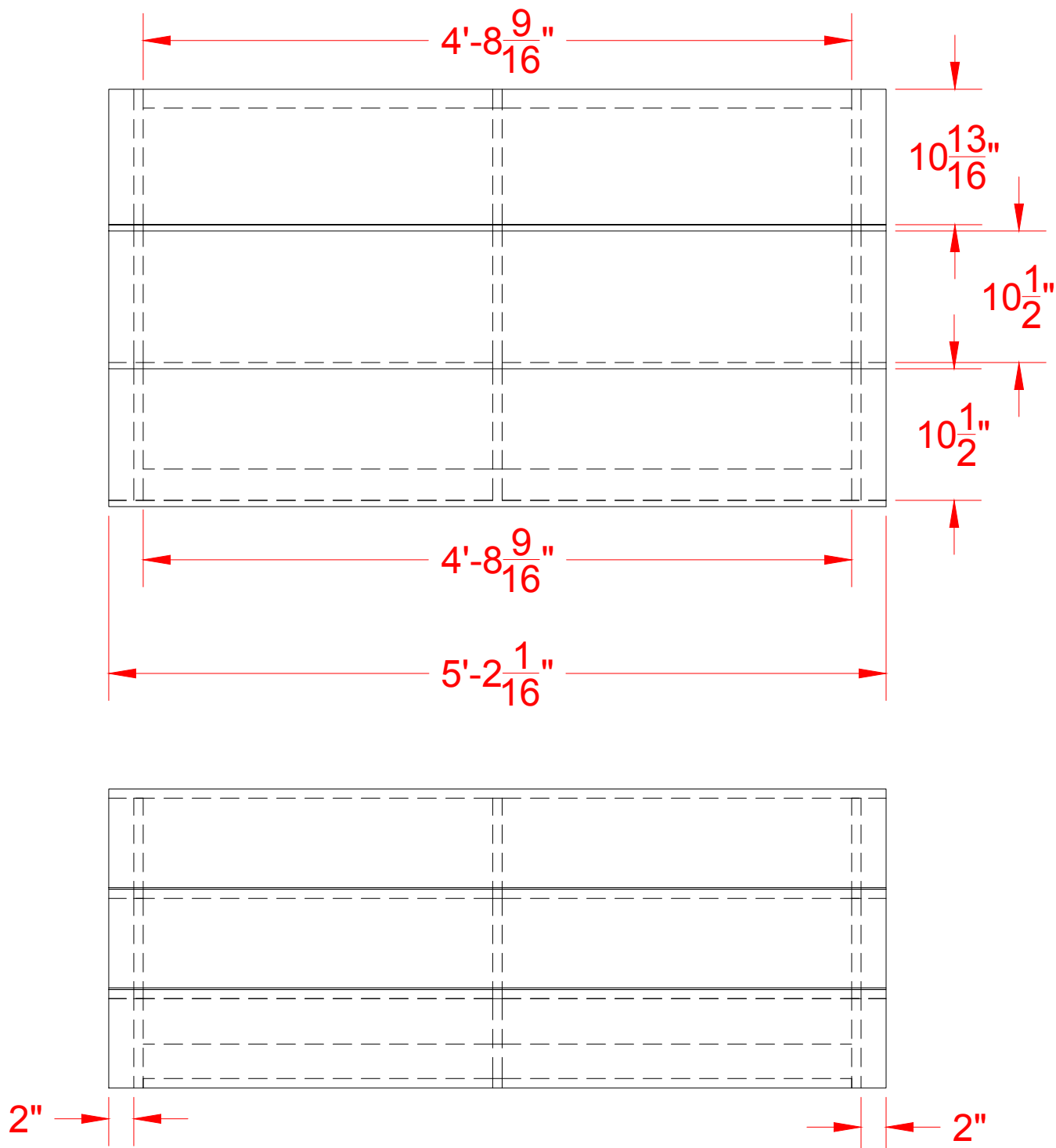


DIRECTOR:	TEXT DIRECTOR:
O'GRADY	CHRIS RUSSO
DESIGNER:	COATED BY:
ANDRE BRANDAO	DANIEL DEMBEK
SCALE:	PLATE #:
1"=1'-0"	103
DATE:	
7/7/23	
REVISED:	
8/28/2023	
PLOT DATE:	

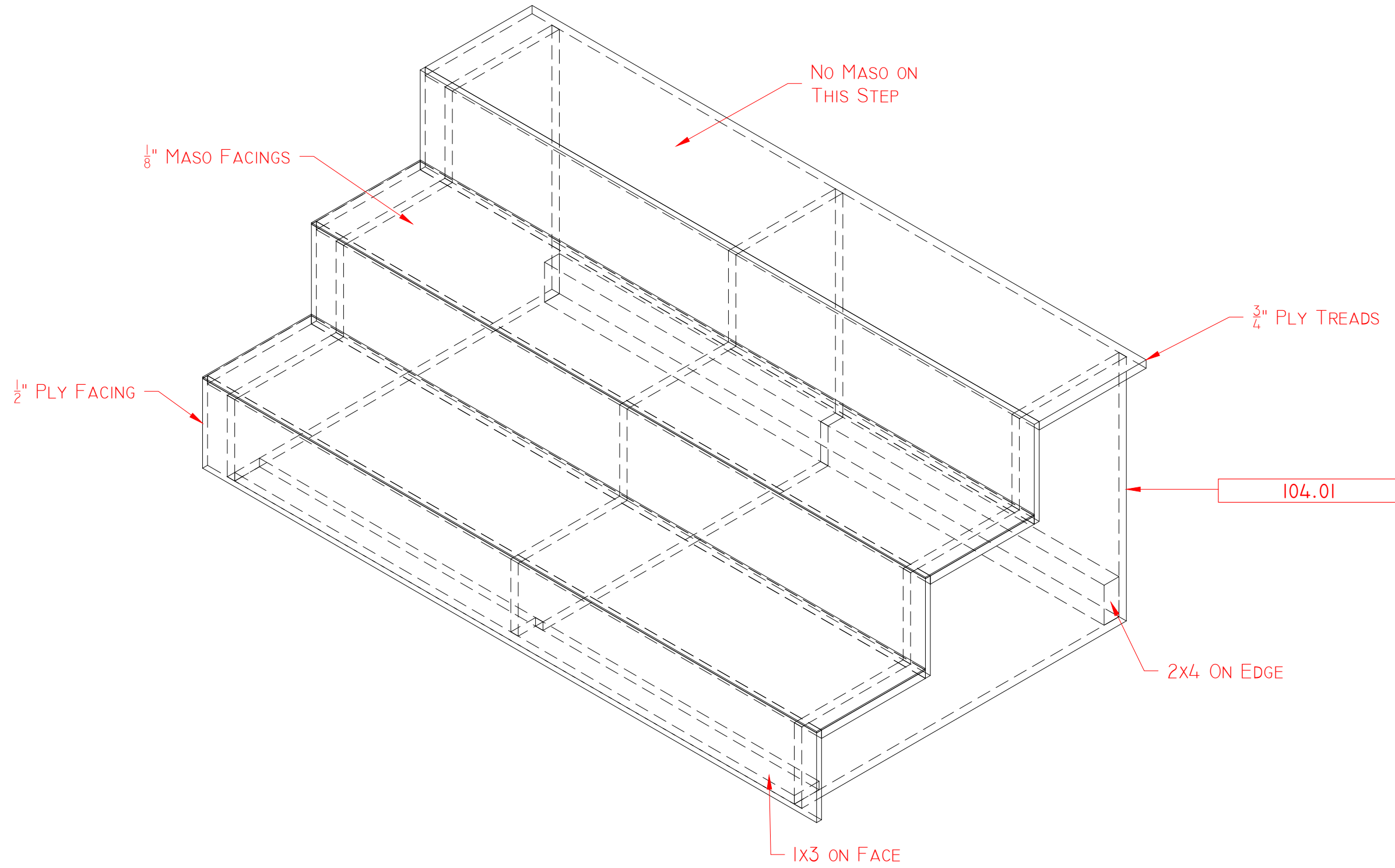
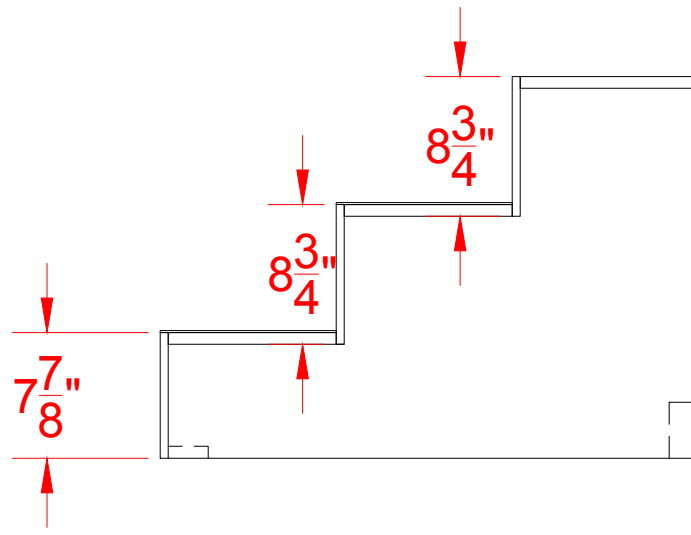
NOTES:

- STRAIGHT STAIR:**
-Ply Construction
- Stringers are CNC $\frac{3}{4}$ " Ply
- Treads are $\frac{3}{4}$ " Ply ripped
- Stringers are inset 2" on either side for room to cut if needed
- Front Facings are $\frac{1}{2}$ " Ply
- Top Facings are $\frac{1}{8}$ " Maso
- 2x4 Spine and 1x3 Footer

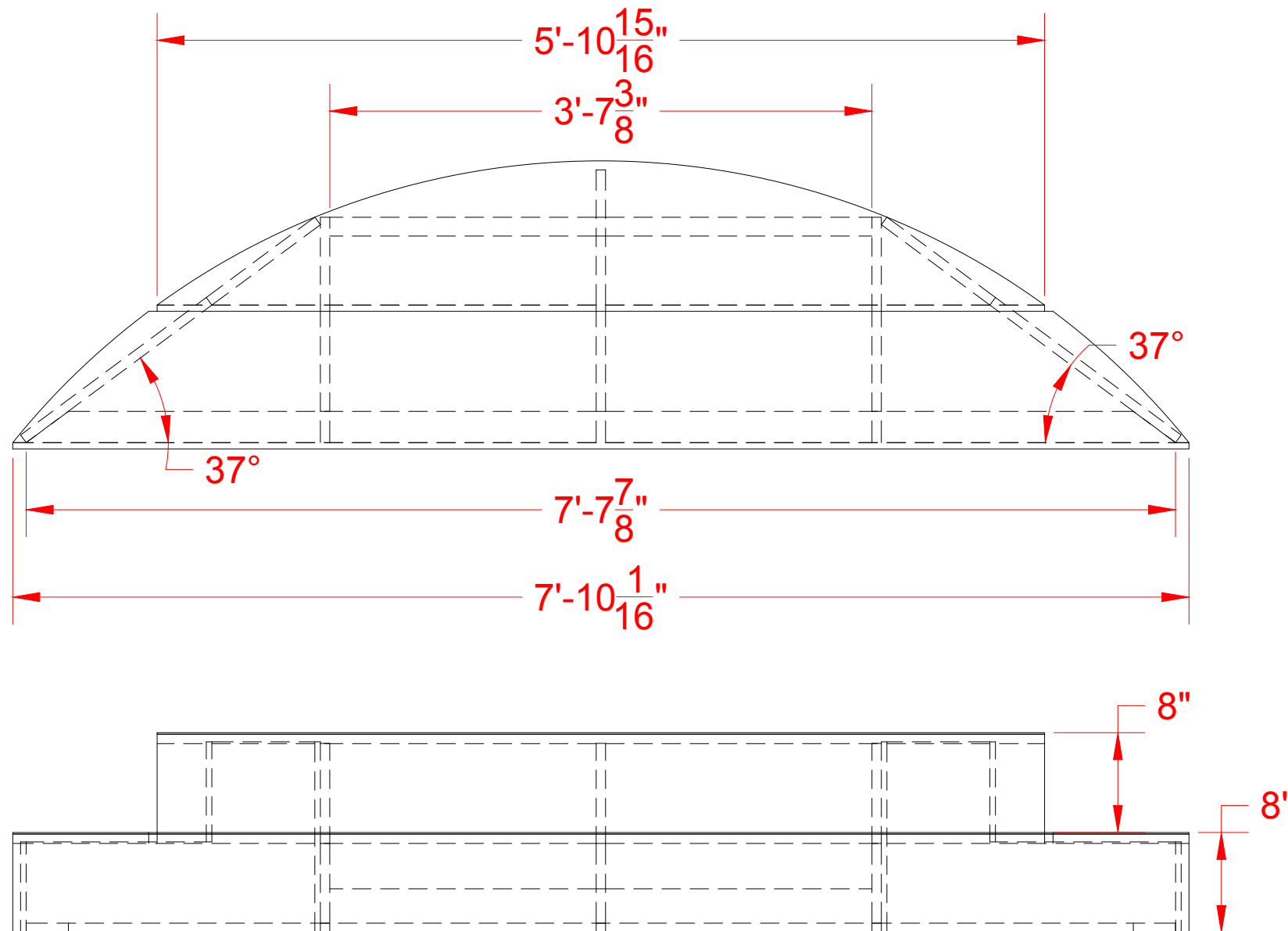
- CURVED STAIR:**
-Ply Construction
- Stringers and Treads are CNC $\frac{3}{4}$ " Ply
- Front Facings are $\frac{1}{2}$ " Ply
- Top Facings are CNC $\frac{1}{8}$ " Maso
- 2x4 Spine and 1x3 Footer



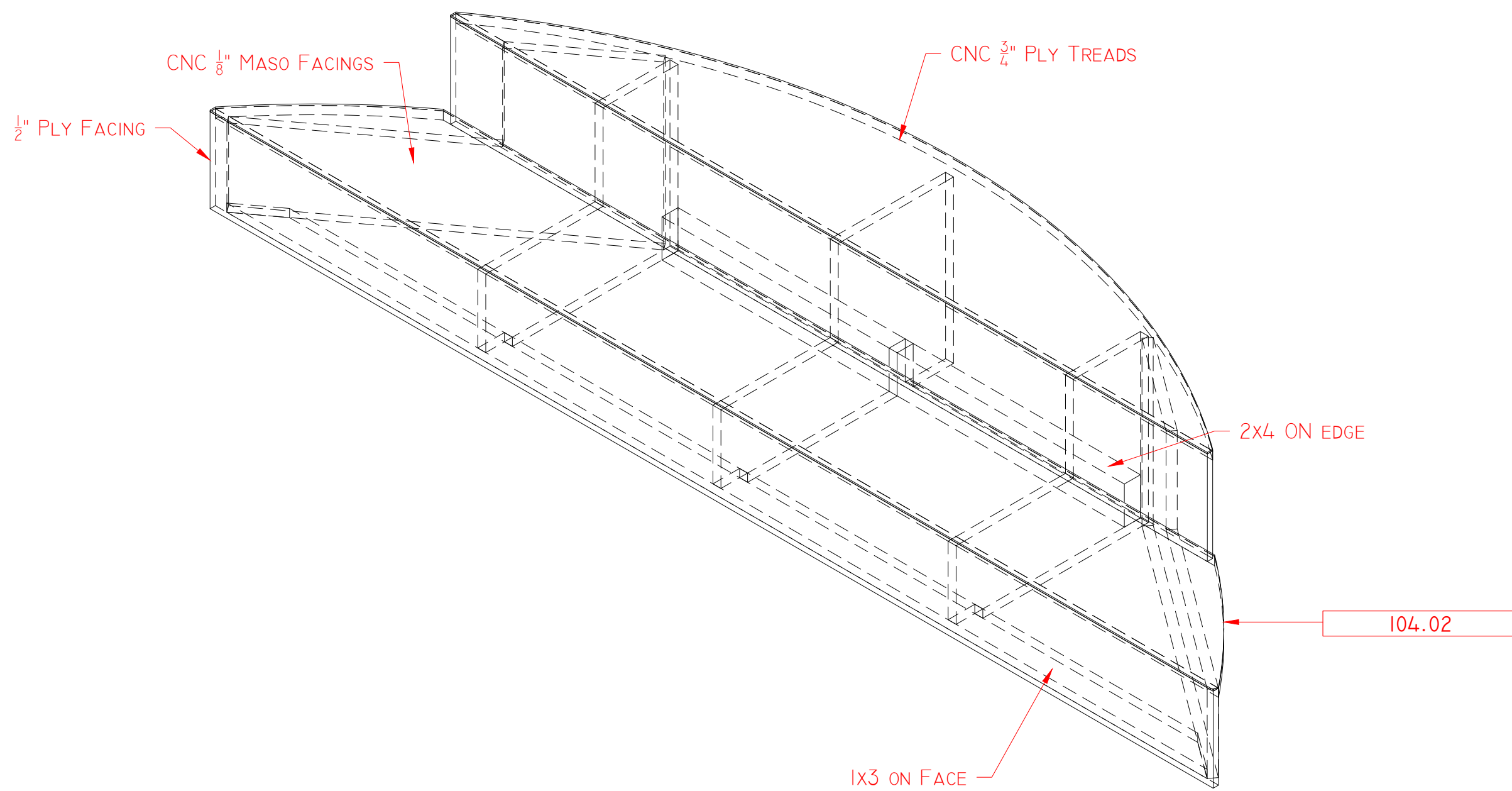
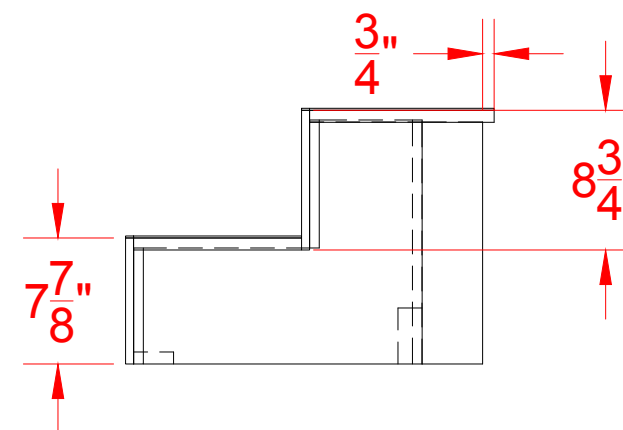
01
104
STRAIGHT STAIRS
SCALE:
BUILD 2X



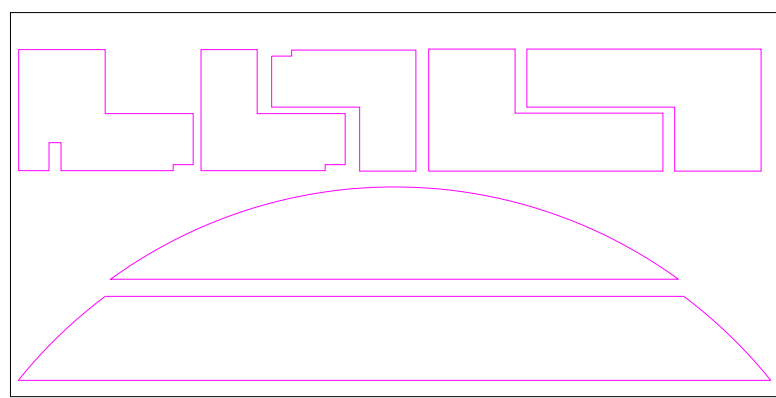
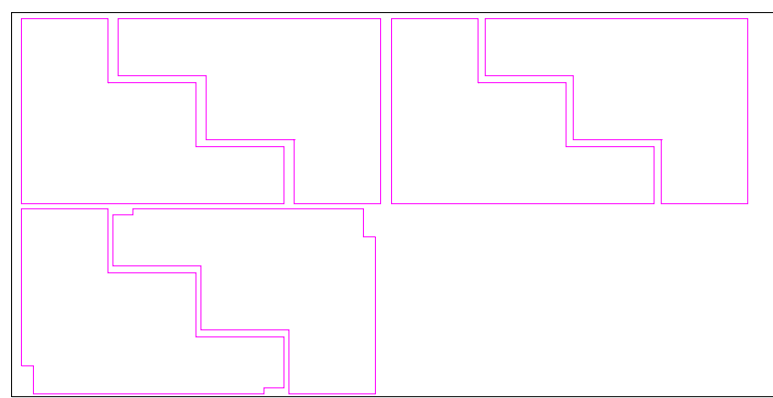
02
104
STRAIGHT STAIRS ISOMETRIC
SCALE:



03
104
CURVED STAIRS
SCALE:

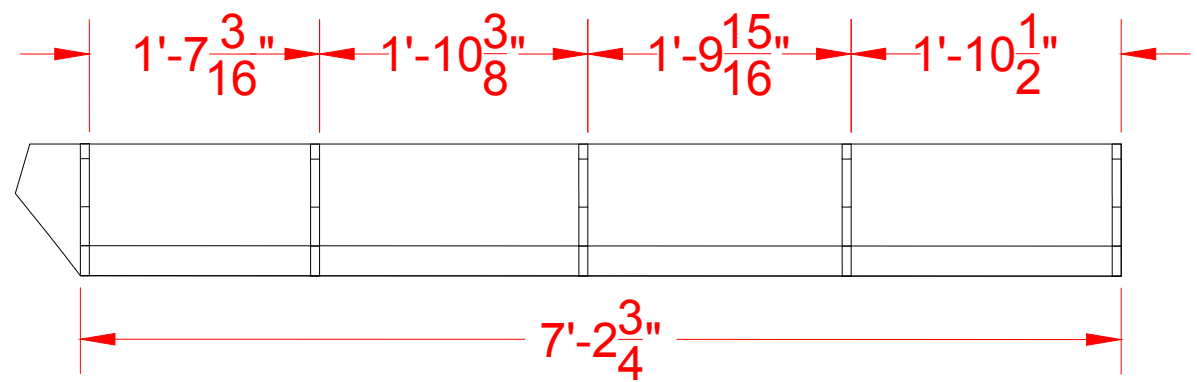
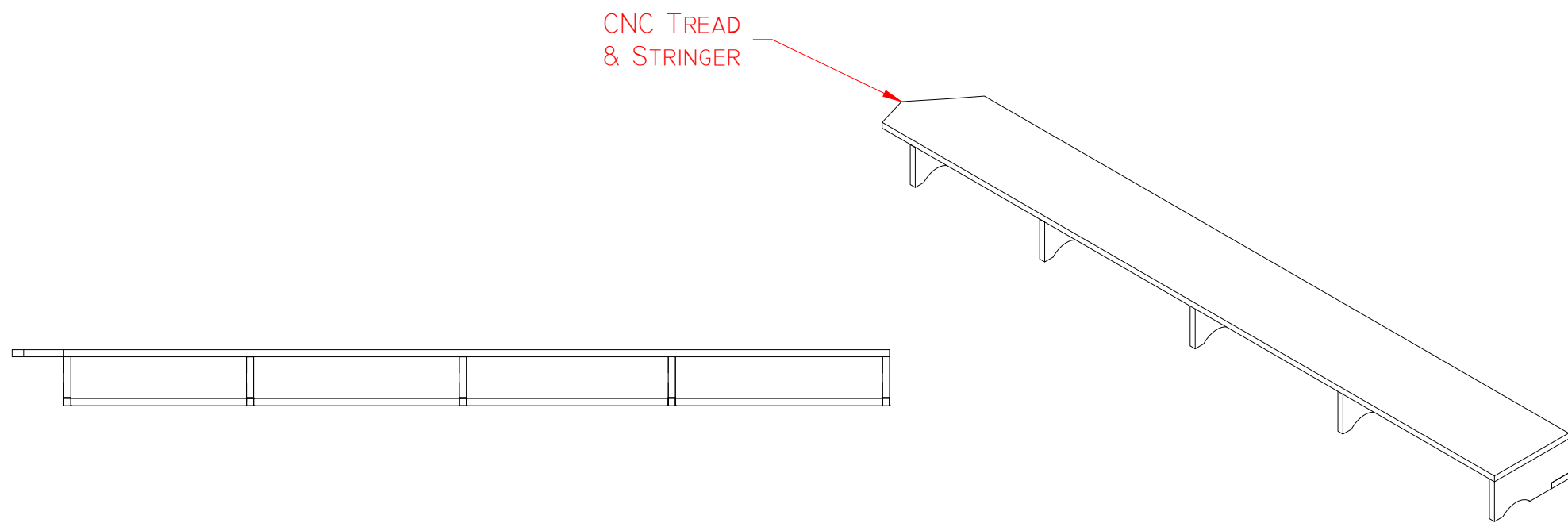


04
104
CURVED STAIRS ISOMETRIC
SCALE:

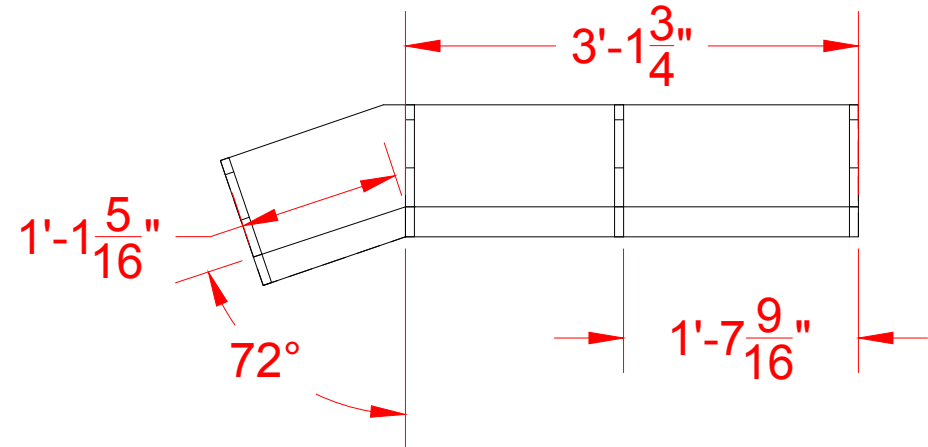
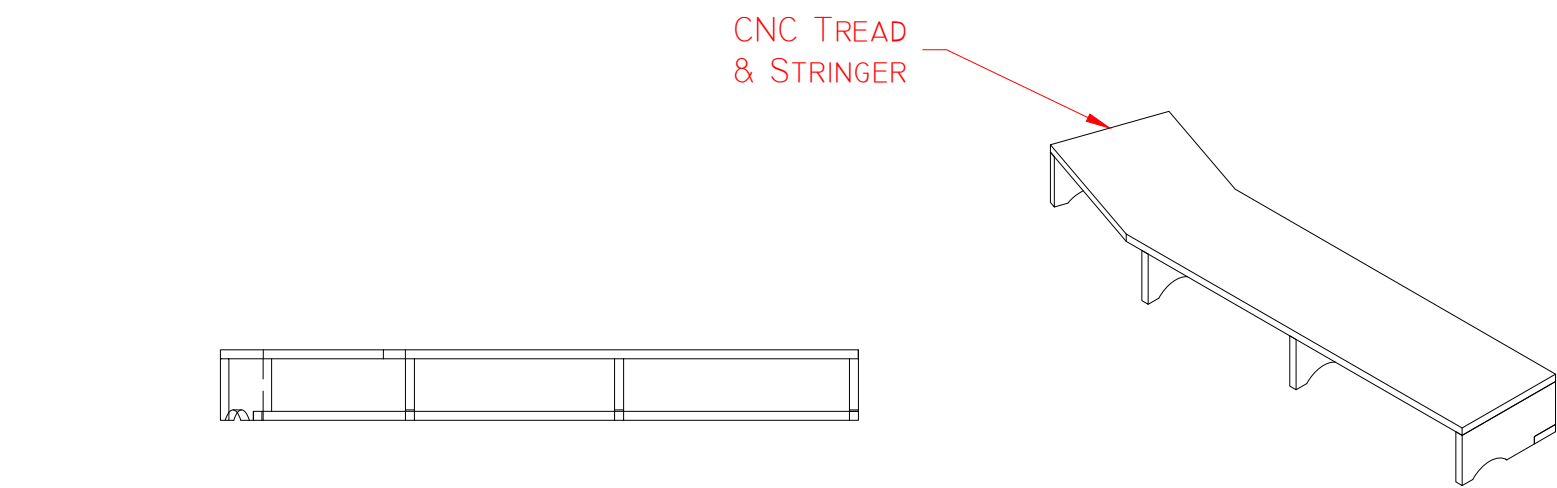


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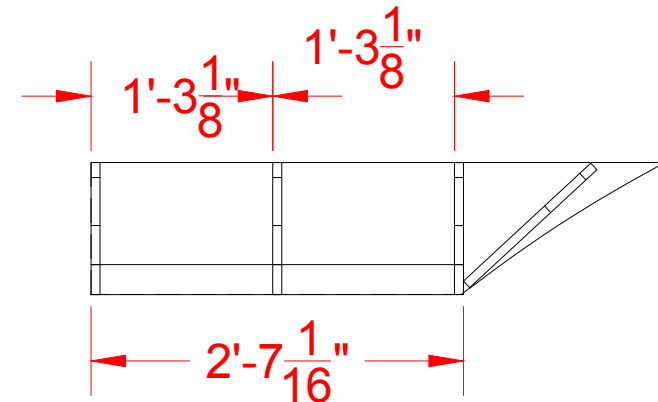
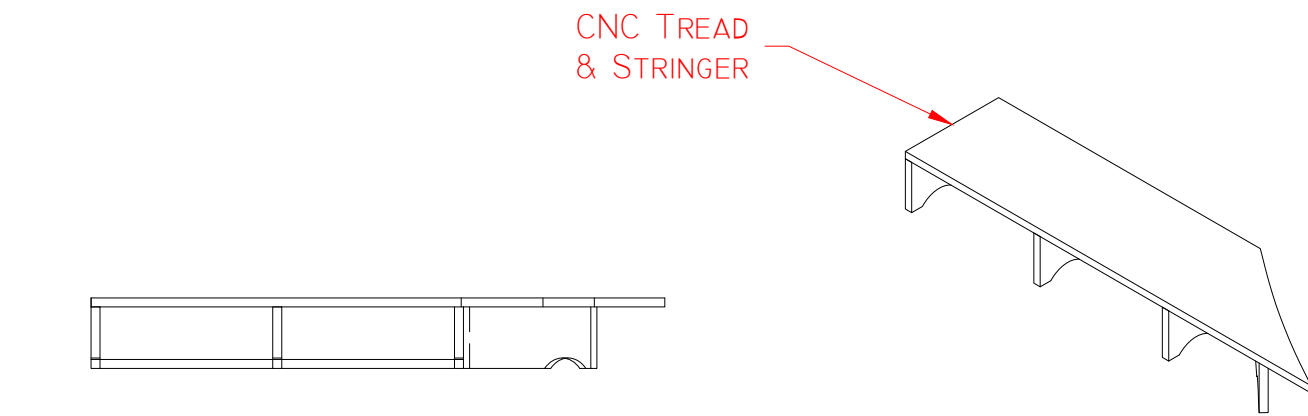
104.02



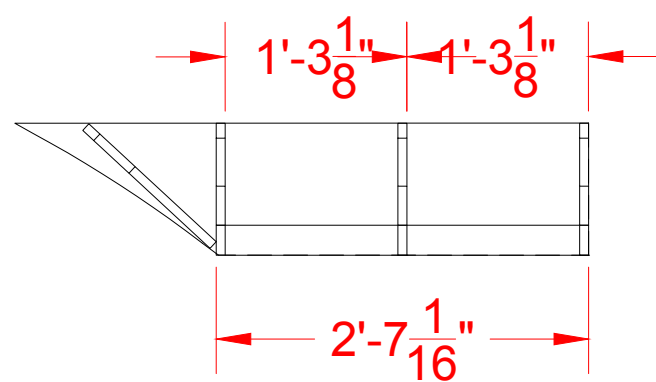
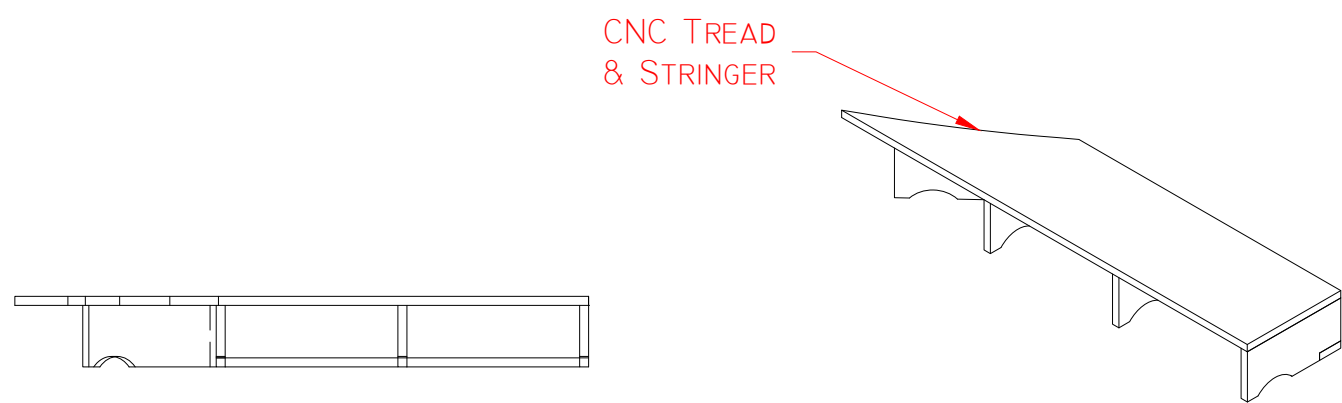
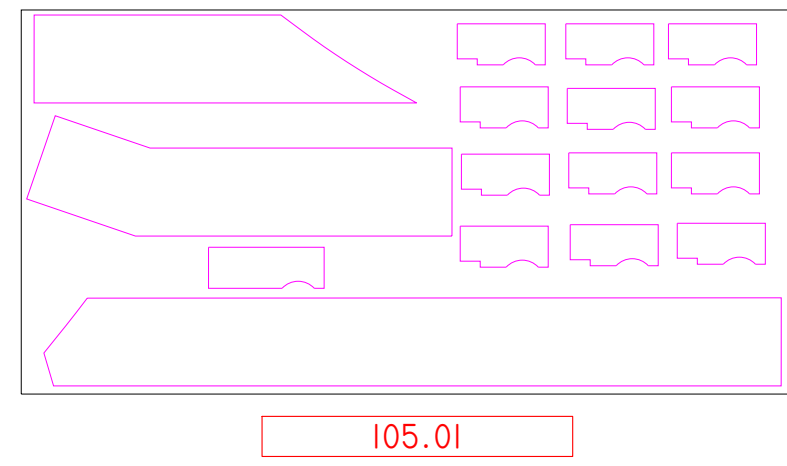
01 SR STAIR SEGMENT 1
SCALE: 1/8"=1'-0"



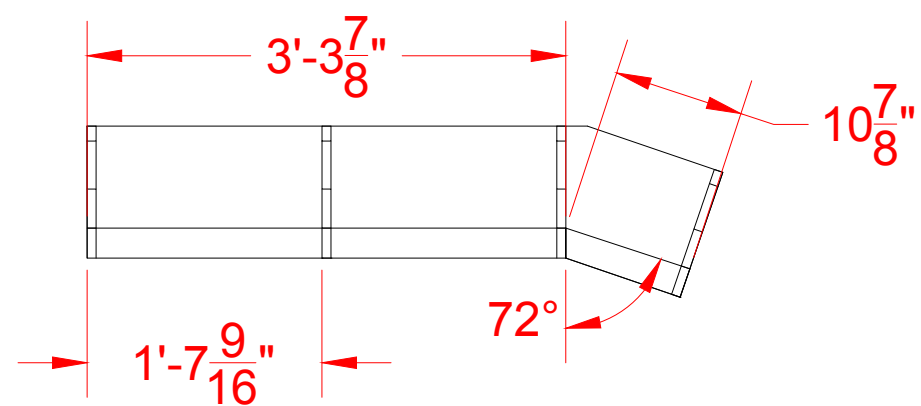
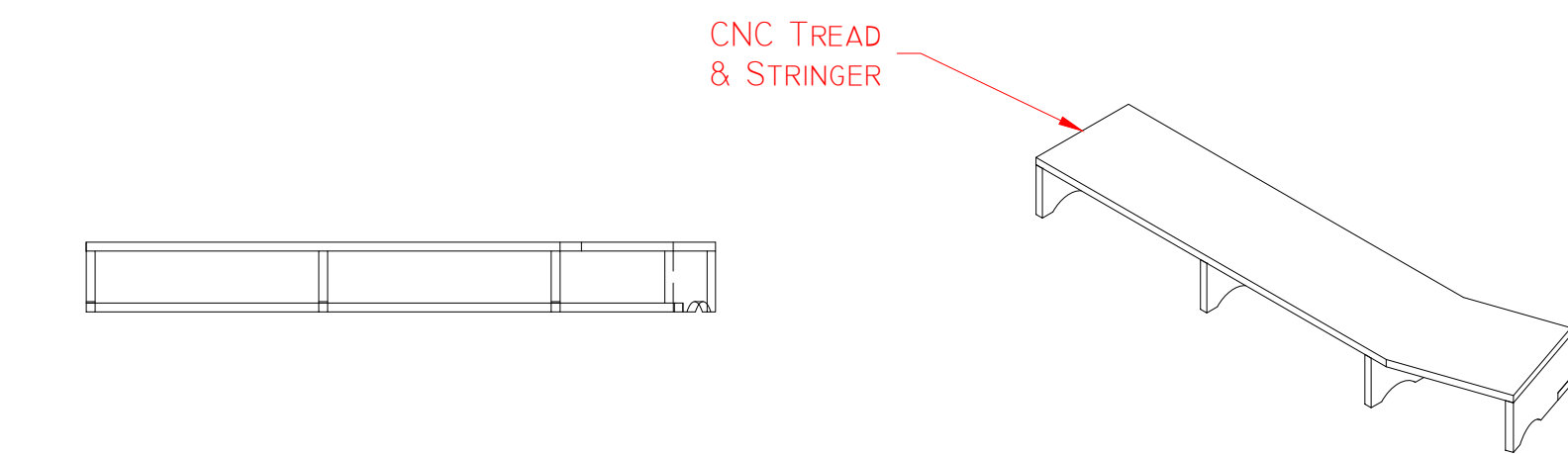
02 SR STAIR SEGMENT 2
SCALE: 1/8"=1'-0"



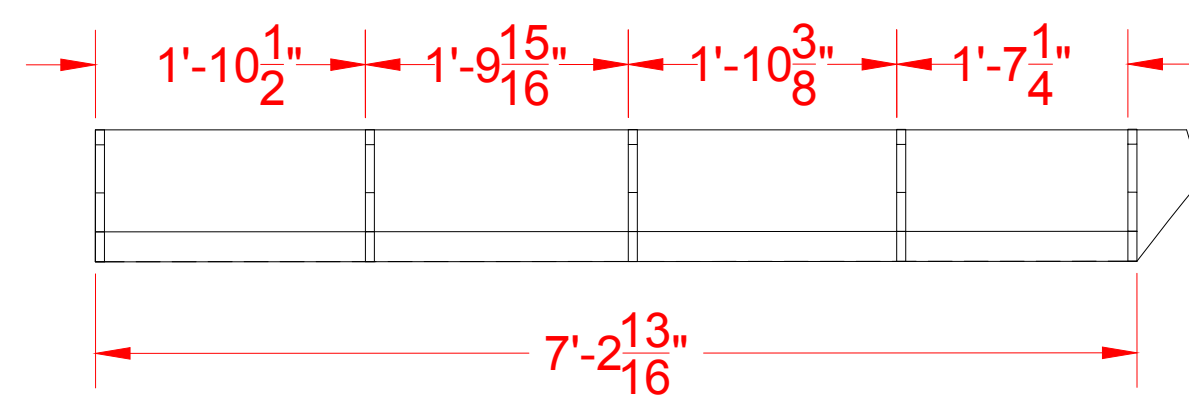
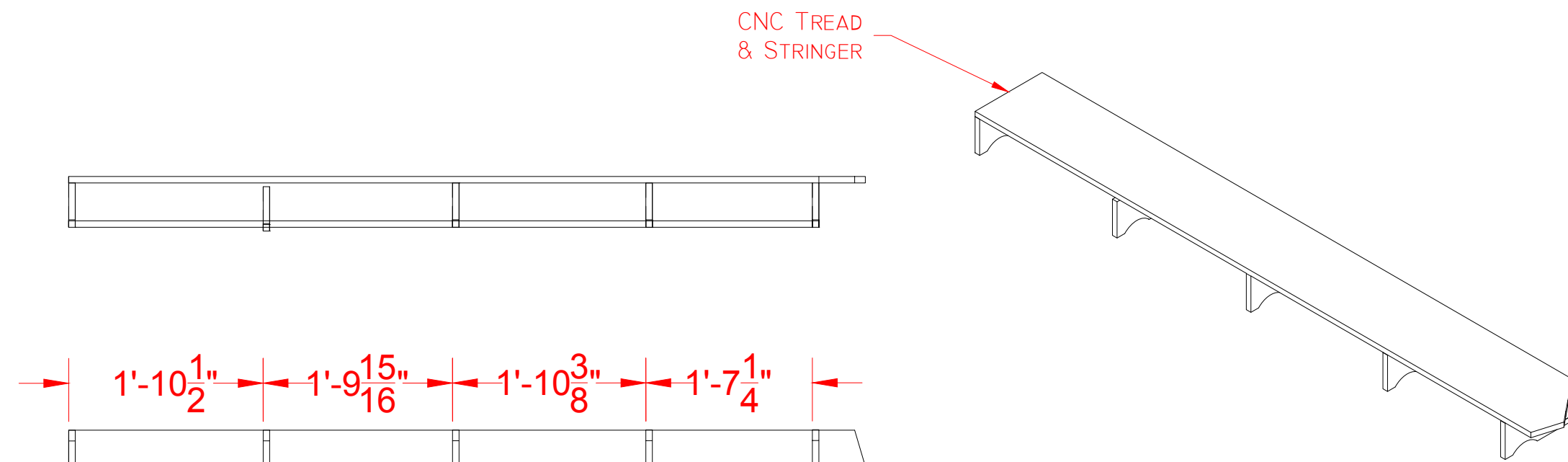
03 SR STAIR SEGMENT 3
SCALE: 1/8"=1'-0"



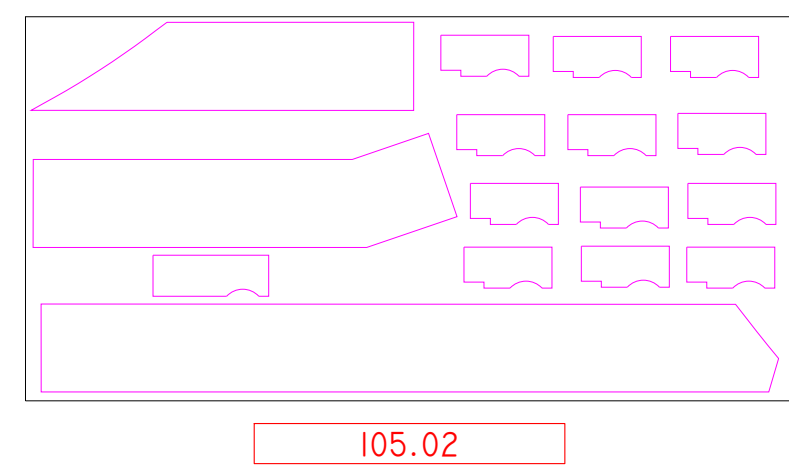
04 SL STAIR SEGMENT 1
SCALE: 1/8"=1'-0"



05 SL STAIR SEGMENT 2
SCALE: 1/8"=1'-0"



06 SL STAIR SEGMENT 3
SCALE: 1/8"=1'-0"



School of Theatre Scene Shop
310 Academic Activities Building
University Park, PA 16802
(814) 863-2593

NOTES:

- CNC Ply Construction
- Treads and Stringers are CNC 3/4" Ply
- All Stairs Faced with 1/2" Ply
- 1/8" Maso top facings overlap ply seams
- 1x3 On Face Spine

PENN STATE CENTRE STAGE PLAYHOUSE			
GREAT COMET OF 1812			
PIT STAIR 2			
DESIGNED BY: O'GRADY	DESIGNED BY: CHRIS RUSSO	DESIGNED BY: DANIEL DEMBEK	DESIGNED BY: DANIEL DEMBEK
SCALE: 3/4"=1'-0"	SCALE: 3/4"=1'-0"	SCALE: 3/4"=1'-0"	SCALE: 3/4"=1'-0"
DATE: 7/7/23	DATE: 7/7/23	DATE: 7/7/23	DATE: 7/7/23
REVISION: 8/28/2023	REVISION: 8/28/2023	REVISION: 8/28/2023	REVISION: 8/28/2023
PLT DATE:	PLT DATE:	PLT DATE:	PLT DATE:

105

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